

**IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION**

**DONNA CURLING, ET AL.,
Plaintiffs,**

v.

**BRIAN KEMP, ET AL.,
Defendants.**

Civil Action No. 1:17-CV-2989-AT

COALITION PLAINTIFFS' NOTICE OF FILING DECLARATIONS

Plaintiffs Coalition for Good Governance, William Digges III, Laura Digges, Megan Missett, and Ricardo Davis (the "Coalition Plaintiffs"), in support of their Motion for Preliminary Injunction [Doc. 258], file the following declarations:

- Exhibit 1 Philip B. Stark
- Exhibit 2 Susan Cannell
- Exhibit 3 Jasmine Clark
- Exhibit 4 Jeanne Dufort
- Exhibit 5 Virginia Martin

Respectfully submitted this 11th day of September, 2018.

/s/ Bruce P. Brown

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CERTIFICATE OF COMPLIANCE

I hereby certify that the foregoing document has been prepared in accordance with the font type and margin requirements of LR 5.1, using font type of Times New Roman and a point size of 14.

/s/ Bruce P. Brown

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Civil Action No. 1:17-CV-2989-AT

CERTIFICATE OF SERVICE

This is to certify that I have this day caused the foregoing COLATION PLAINTIFFS' NOTICE OF FILING DECLARATIONS to be served upon all other parties in this action by via electronic delivery using the PACER-ECF system.

This 11TH day of September, 2018.

/s/ Bruce P. Brown
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**IN THE UNITED STATES DISTRICT COURT FOR
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DONNA CURLING, et al.

Plaintiff,

vs.

BRIAN P. KEMP, et al.

Defendant.

**CIVIL ACTION FILE NO.:
1:17-cv-2989-AT**

DECLARATION OF PHILIP B. STARK

PHILIP B. STARK hereby declares as follows:

Qualifications and Background

1. I am Professor of Statistics and Associate Dean of Mathematical and Physical Sciences at the University of California, Berkeley, where I am also a faculty member in the Graduate Program in Computational Data Science and Engineering; a co-investigator at the Berkeley Institute for Data Science; principal investigator of the Consortium for Data Analytics in Risk; director of Berkeley Open Source Food; and affiliated faculty of the Simons Institute for the Theory of Computing, the Theoretical Astrophysics Center, and the Berkeley Food Institute. Previously, I was Chair of the Department of Statistics and Director of the Statistical Computing Facility.
2. I have published more than one hundred and ninety articles and books. I have served on the editorial boards of archival journals in physical science, Applied Mathematics, Computer

Science, and Statistics. I currently serve on four editorial boards. I have lectured at universities, professional societies, and government agencies in thirty countries. I was a Presidential Young Investigator and a Miller Research Professor. I received the U.C. Berkeley Chancellor's Award for Research in the Public Interest, the Leamer-Rosenthal Prize for Open Social Science, and a Velux/Villum Foundation Professorship. I am a member of the Institute for Mathematical Statistics and the Bernoulli Society. I am a Fellow of the American Statistical Association, the Institute of Physics, and the Royal Astronomical Society. I am professionally accredited as a statistician by the American Statistical Association and as a physicist by the Institute of Physics.

3. I have consulted for many government agencies, including the U.S. Department of Justice, the U.S. Department of Agriculture, the U.S. Department of Commerce, the U.S. Department of Housing and Urban Development, the U.S. Department of Veterans Affairs, the Federal Trade Commission, the California Secretary of State, the California Attorney General, the California Highway Patrol, the Colorado Secretary of State, the Georgia Department of Law, and the Illinois State Attorney. I currently serve on the Board of Advisors of the U.S. Election Assistance Commission and on the Board of Directors of Verified Voting Foundation. (The opinions expressed herein are, however, my own: I am not writing as a representative of any entity.)
4. I have testified before the U.S. House of Representatives Subcommittee on the Census; the State of California Senate Committee on Elections, Reapportionment and Constitutional Amendments; the State of California Assembly Committee on Elections and Redistricting; the State of California Senate Committee on Natural Resources; and the State of California Little Hoover Commission.

5. I have been an expert witness or non-testifying expert in a variety of state and federal cases, for plaintiffs and for defendants, in criminal matters and a range of civil matters, including, *inter alia*: truth in advertising, antitrust, construction defects, consumer class actions, credit risk, disaster relief, elections, employment discrimination, environmental protection, equal protection, fairness in lending, federal legislation, First Amendment, import restrictions, insurance, intellectual property, jury selection, mortgage-backed securities, natural resources, product liability class actions, *qui tam*, risk assessment, toxic tort class actions, trade secrets, utilities, and wage and hour class actions. Much of that work concerned statistical sampling and extrapolation.
6. I have been qualified as an expert on statistics in federal courts, including the Central District of California, the District of Maryland, the Southern District of New York, and the Eastern District of Pennsylvania.
7. I have also been qualified as an expert on statistics in state courts.
8. I have used statistics to address a wide range of questions in many fields.¹
9. I served on former California Secretary of State Debra Bowen's Post-Election Audit Standards Working Group in 2007.
10. In 2007, I invented a statistical approach to auditing elections ("risk-limiting audits") that has been incorporated into statutes in California (AB 2023, SB 360, AB 44, AB 2125), Colorado (C.R.S. 1-7-515), and Rhode Island (RI Gen L §17-19-37.4 (2017)), and which were recently

¹ For example, I have used statistics to analyze the Big Bang, the interior structure of the Earth and Sun, the risk of large earthquakes, the reliability of clinical trials, the accuracy of election results, the accuracy of the U.S. Census, the risk of consumer credit default, the causes of geriatric hearing loss, the effectiveness of water treatment, the fragility of ecological food webs, risks to protected species, the effectiveness of Internet content filters, high-energy particle physics data, and the reliability of models of climate, among other things.

proposed in federal legislation (the PAVE Act of 2018). RLAs have been tested in California, Colorado, Indiana, Ohio, Virginia, and Denmark.

11. RLAs are widely viewed as the best way to check the accuracy of vote tabulation. They have been endorsed by the Presidential Commission on Election Administration, the National Academy of Sciences report “Securing the Vote: Protecting American Democracy,” the American Statistical Association, the League of Women Voters, Verified Voting Foundation, Citizens for Election Integrity Minnesota, and other groups concerned with election integrity.
12. I have worked closely with state and local election officials in California and Colorado to pilot and deploy RLAs. The software Colorado uses to conduct RLAs is based on software I wrote.
13. I worked with Travis County, Texas, on the design of STAR-Vote, an auditable and end-to-end cryptographically verifiable voting system.
14. I testified as an expert witness in the general area of election integrity, including the reliability of voting equipment, in 2016 presidential candidate Jill Stein’s recount suit in Wisconsin, and filed a report in her suit in Michigan.
15. I have testified as an expert in election auditing and the accuracy of election results in two election-related lawsuits in California.
16. I have testified to both houses of the California legislature regarding election integrity and election audits. I have testified to the California Little Hoover Commission about election integrity, voting equipment, and election audits.
17. Since 1988, I have taught statistics at the University of California, Berkeley, one of the top two statistics departments in the world (see, e.g., QS World University Rankings, 2014) and the nation (US News and World Reports, 2014). I teach statistics regularly at the

undergraduate and graduate levels. I have created five new statistics courses at Berkeley. I developed and taught U.C. Berkeley's first online course in any subject, and among the first approved for credit throughout the ten campuses of the University of California system. I also developed and co-taught online statistics courses to over 52,000 students, using an online textbook and other pedagogical materials I wrote and programmed.

18. Appendix 1 is my current *curriculum vitae*, which includes my publications for the last ten years and all cases in the last four years in which I gave deposition or trial testimony.

Opinions

19. I am offering my opinion with respect to the need and feasibility for Georgia to conduct the 2018 mid-term election using paper ballots and to verify the outcomes of the election using a risk-limiting audit conducted affordably using current voting equipment.
20. The September 6, 2018 National Academy of Sciences, Engineering and Medicine report, *Securing the Vote: Protecting American Democracy*² ("the NAS report"), echoes the opinions of leading voting system scientists and the election integrity community: to ensure that reported election results reflect the will of voters, public elections should be conducted with hand-marked paper ballots or systems with a voter-verifiable paper trail.
21. The NAS report recommended that "every effort should be made to use human-readable paper ballots in the 2018 federal election." NAS Report, at 7.

² <https://www.nap.edu/read/25120/chapter/1> Last accessed 9 September 2018.

22. The Board of Advisors of the U.S. Election Assistance Commission (EAC) passed a resolution in 2018 recommending that the EAC “not certify any system that does not use voter-verifiable paper as the official record of voter intent.”³
23. Merely using paper ballots to conduct an election does not ensure that results are correct. The paper must actually be used in an appropriate way to check the reported results and to correct the results if they are wrong. Suitable “post-election audits” that manually inspect random samples of paper ballots can detect and correct incorrect electoral outcomes.
24. The NAS report states, “each state should require a comprehensive system of post-election audits of processes and outcomes.” NAS Report, at 8. “Audits of election outcomes should include manual examination of statistically appropriate samples of paper ballots cast.” NAS Report, at 9.
25. Elections should be conducted in a way that gives the public convincing evidence that reported election outcomes are correct. This is the principle of “evidence-based elections.”⁴
26. It is my understanding that since the security breach of the Kennesaw State University Center for Election Systems server, there has been no forensic examination or remediation of voting system components, including many thousands of pieces of computerized election equipment indirectly connected to that server. As a result, in Georgia, the accuracy and trustworthiness of election results are in particular peril compared to most states: the need for paper ballots and rigorous post-election audits is urgent. The paperless systems currently deployed in Georgia simply cannot provide trustworthy evidence that reported election outcomes are correct.

³ <https://www.eac.gov/documents/2018/04/27/resolution-2018-03-auditability-of-voter-intent-passed-10-8-4-advisors-resolution-page/> Last accessed 9 September 2018.

⁴ Stark, P.B., and D.A. Wagner, 2012. Evidence-Based Elections. *IEEE Security and Privacy*, 10, 33–41. Preprint: <https://www.stat.berkeley.edu/~stark/Preprints/evidenceVote12.pdf>

27. A “risk-limiting audit” (RLA)⁵ is a particular approach to catching and correcting incorrect election outcomes before they become official. A RLA is any post-election procedure that offers the following statistical guarantee: If a full manual tally of the complete voter-verifiable paper trail would show a different electoral outcome, there is a known, pre-determined minimum chance that the procedure will lead to a full manual tally.
28. If the procedure does lead to a full manual tally, the result of that manual tally replaces the reported outcome, thereby correcting it.
29. Here, “outcome” means the political result: the candidate(s) or position that won, or the determination that a run-off is needed, not the exact vote totals.
30. The maximum chance that the procedure will not lead to a full manual tally if that tally would show a different outcome is called the *risk limit*. Equivalently, the risk limit is the largest chance that the audit will fail to correct an outcome that is incorrect, where “incorrect” means that a full manual tally of the voter-verifiable paper trail would find different winner(s).
31. For instance, a RLA with a risk limit of 5% has at least a 95% chance of requiring a full manual tally, if that tally would show an outcome that differs from the reported outcome.
32. The NAS Report recommends RLAs: “States should mandate risk-limiting audits prior to the certification of election results.” NAS Report, at 9. “Risk-limiting audits can efficiently establish high confidence in the correctness of election outcomes—even if the equipment

⁵ Risk-limiting audits have been endorsed by the Presidential Commission on Election Administration, the American Statistical Association, the League of Women Voters, Common Cause, Verified Voting Foundation, and many other organizations concerned with election integrity. They are required by law in Colorado and Rhode Island, and have been tested in California, Ohio, and Denmark. They were developed in 2007; the first publication is Stark, P.B., 2008. Conservative Statistical Post-Election Audits, *Ann. Appl. Statistics*, 2, 550–581. Reprint. Since then, there have been extensions for other social choice functions (e.g., proportional representation, see Stark, P.B., and V. Teague, 2014. Verifiable European Elections: Risk-limiting Audits for D’Hondt and Its Relatives, *JETS: USENIX Journal of Election Technology and Systems*, 3, 18–39. https://www.usenix.org/system/files/jets/issues/0301/overview/jets_0301_stark_update_9-10-15.pdf), for auditing any number of contests simultaneously, for different types of voting equipment, etc. For a general but still somewhat technical introduction, see Stark, P.B., and M. Lindeman, A Gentle Introduction to Risk-Limiting Audits, *IEEE Security and Privacy*, 10, 42–49, doi:10.1109/MSP.2012.56

used to cast, collect, and tabulate ballots to produce the initial reported outcome is faulty.”

NAS Report, at 100.

33. The US Election Assistance Commission (EAC) recently issued a white paper on the history, importance, and conduct of RLAs.⁶
34. It is crucial to base post-election audits on voter-verifiable paper records; to ensure that those records include every validly cast vote exactly once, and no others (checking the determination of eligibility, in particular); to ensure that those records remain complete and intact from the moment they are cast through the audit; and to assess the evidence that they are trustworthy. Absent affirmative evidence that the paper trail is a trustworthy record of voter intent—that it accurately reflects the intent of every voter who legitimately cast a ballot in the contests under audit, and no others—the audit might simply confirm the incorrect outcome. The process of assessing the trustworthiness of the paper trail is called a *compliance audit*.
35. There are many methods for conducting risk-limiting audits, involving different ways of drawing samples of ballots and different demands on the voting system and on auditors. For instance, a full handcount is a risk-limiting audit, with a risk limit of zero. But by inspecting randomly selected ballots and using appropriate statistical methods, it is possible to conduct risk-limiting audits much more efficiently—when the electoral outcome is correct. Below, I discuss *ballot-polling* RLAs, a particular approach that Georgia could implement in time for the 2018 mid-term elections.
36. RLAs require manually inspecting voter-verifiable paper ballots. In particular, digital images of ballots are not a trustworthy record of voter intent.

⁶ https://www.eac.gov/assets/1/6/Risk-Limiting_Audits_-_Practical_Application_Jerome_Lovato.pdf Last accessed 9 September 2018.

37. Ballot-polling is a particularly simple method for conducting RLAs. It involves selecting and manually inspecting randomly selected cast ballots. If a sufficiently large random sample of ballots shows a sufficiently large margin for the reported winner, that is strong statistical evidence that the reported winner really won.
38. A ballot-polling RLA is similar to an exit poll, but instead of asking a random sample of voters what their preferences were, the audit looks at a random sample individual ballots to see what preferences those ballots show.
39. In contrast to exit polls, the sample size for a ballot-polling RLA is not fixed in advance. A ballot-polling RLA stops if and when the sample shows that it is implausible that anyone other than the reported winner really won. The calculations to determine whether and when the audit can stop are simple enough to be done with a pencil and paper. They involve nothing more complicated than multiplication.
40. The first ballot-polling RLA was conducted in Monterey County, California, in 2011.⁷ Since then, they have been used in pilot RLAs in California, Colorado, and Virginia. The first academic papers on ballot-polling RLAs were published in 2012.⁸
41. A free, open-source tool that implements all the calculations for ballot-polling RLAs, including the random selection of ballots and the calculation of when the audit can stop, is available at the URL <https://www.stat.berkeley.edu/~stark/Vote/ballotPollTools.htm> (last accessed 9 September 2018). That tool is the basis of the software Colorado uses for RLAs in some counties. It has been used in pilot audits in several California and Colorado counties.

⁷ See <http://www.montereycountyelections.us/AB2023.html>, last accessed 9 September 2018.

⁸ Lindeman, M., P.B. Stark, and V.S. Yates, 2012. BRAVO: Ballot-polling Risk-Limiting Audits to Verify Outcomes. *2012 Electronic Voting Technology Workshop/Workshop on Trustworthy Elections (EVT/WOTE '12)*. Reprint: <https://www.usenix.org/system/files/conference/evtvote12/evtvote12-final27.pdf>. Lindeman, M. and P.B. Stark, 2012. A Gentle Introduction to Risk-Limiting Audits. *IEEE Security and Privacy*, 10, 42–49. Preprint: <https://www.stat.berkeley.edu/~stark/Preprints/gentle12.pdf>.

42. Georgia could use ballot-polling RLAs to confirm electoral outcomes if it conducted elections using paper ballots counted by Accu-Vote optical scanners.
43. There are other approaches to RLAs that generally involve inspecting fewer ballots, but that require more data from voting systems and have higher set-up costs than ballot-polling RLAs. For instance, *ballot-level comparison* RLAs are currently the most efficient approach, as measured by the number of ballots that must be audited when the electoral outcome is correct. Georgia should explore other approaches to RLAs in the future, but the easiest RLA method to implement by the mid-term elections is ballot polling.
44. I understand that audit guidelines might need to be established by the Georgia State Election Board in a public process. Because there is now considerable experience conducting RLAs, a great deal of public information, free software, and model legislation, the work could be done in time to audit the 2018 mid-term elections. The fact that Georgia uses a uniform voting system employing the Accu-Vote optical scanner will simplify the process. However, there is no time to waste: work should start immediately.
45. The audit guidelines should embody a number of principles, including requiring serious checks of the integrity of the paper trail, specifying risk limits, specifying how contests subject to RLAs are to be selected, ensuring that the audit cannot be subverted, and providing the public enough information to verify that the audit did not stop prematurely. The guidelines also need to specify how to interpret voter intent from hand-marked ballots.⁹

⁹ For instance, if a voter makes a write-in vote for a candidate who is also listed on the ballot, is that a valid vote? If a voter marks a vote for a listed candidate and also writes in that candidate's name, is that a valid vote? If a voter marks a vote for a candidate, crosses through the mark, and marks a vote for a second candidate, is that a valid vote for the second candidate? If a voter makes a stray mark on the ballot that is distinctive enough to identify the ballot, is the ballot valid? Experience in recounts in Minnesota suggests that the percentage of hand-marked ballots that are marked ambiguously is quite small: in the 2008 Minnesota statewide recount, only 845 ballots were challenged. <http://minnesota.publicradio.org/collections/special/2008/campaign/results/mn/recount/ballots/>. Last visited 9 September 2018. See http://minnesota.publicradio.org/features/2008/11/19_challenged_ballots/ (last visited 9 September 2018) for specific examples.

46. The largest hurdle is to establish procedures that ensure that the paper ballots are physically secured and organized well enough to draw a random sample.
47. In particular, a key ingredient of ballot-polling RLAs is a *ballot manifest* that describes, for each jurisdiction, how many ballots were cast in that jurisdiction and how the ballots are organized.
48. For instance, a ballot manifest might say, “the county has 913 boxes of ballots, numbered 1 through 913. Box 1 contains 301 ballots. Box 2 contains 199 ballots. . . . and Box 913 contains 247 ballots.”
49. Ballot manifests should be constructed without reliance on the system that is used to tabulate the votes, because they are used to check the tabulation system.
50. It is reasonable to require local election officials to construct ballot manifests routinely: if an election official cannot keep track of ballots, the official is not doing his or her job.
51. All contests should receive some scrutiny. However, it may be impractical to audit every contest to a pre-specified risk limit. If the guidelines do not require every contest to be audited to a pre-specified risk limit, the selection of contests to audit to a risk limit should involve a random element so that every contest has some chance of being selected and a malicious opponent cannot predict whether any particular contest will be audited.
52. For every ballot selected for audit, votes on that ballot in contests that are not required to be audited to a risk limit should nonetheless be recorded (and reported) to provide evidence about whether the results of those contests are accurate. Collecting such data opportunistically from ballots that are manually inspected enables “risk-measuring audits,” which report the strength of evidence that the outcomes of those contests are correct, in light of what the audit finds.

53. The audit sample must not be predictable before the audit starts. Public trust in audits may be increased if the public participates in generating “seed” for selecting the sample. In Colorado, for instance, the “seed” is generated in a broadcast, public ceremony in which 10-sided dice are rolled 20 times, with public participation.
54. Auditing cross-jurisdictional contests requires contest-level results (not merely county-level results) to be known before the audit can conclude. It also requires coordinating the sampling in different counties, so that each county knows when its portion of the audit can stop.
55. I recommend that starting with the 2018 mid-term election, Georgia conduct ballot-polling RLAs of all countywide, statewide, and federal contests, using a risk limit no larger than 5 percent. I recommend that other contests be audited “opportunistically” as described in paragraph 52, *supra*. I believe this is feasible and affordable, but there is no time to waste: the process for establishing the guidelines and procedures must start immediately.
56. A number of non-partisan, non-profit organizations are ready and able to assist Georgia in implementing post-election audits, including Verified Voting Foundation. The U.S. Election Assistance Commission also has staff with extensive experience with RLAs.
57. Although ballot-polling RLAs are not particularly costly, I understand that federal HAVA funds recently granted to Georgia could be used to implement post-election audits, presumably including the cost of monitoring the audits and reporting the results to this Court.

I declare under penalty of perjury, in accordance with 28 U.S.C. § 1746, that the foregoing is true and correct.

Executed on this date, 9 September 2018.

A handwritten signature in black ink, appearing to read "Philip B. Stark", is positioned above a solid horizontal line.

Philip B. Stark

Curriculum Vitae

Philip Bradford Stark

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P.B. Stark: CV

September 4, 2018

1

Biographical Information

Born: 7 October 1960, Houston, Texas.

Citizenship: U.S.A.

Interests

Theory: Inference, inverse problems, multiplicity, nonparametrics, optimization, restricted parameters, sampling

Applications: Astrophysics, cosmology, ecology, elections, geophysics, health, legislation, litigation, marketing, physics, public policy, risk assessment and control, uncertainty quantification

Appointments

10/2015–present Associate Dean, Division of Mathematical and Physical Sciences, University of California, Berkeley

6/2016–8/2016 Visiting Professor of Theoretical Computer Science, IT University of Copenhagen

7/2012–6/2015 Chair, Department of Statistics, and Director, Statistical Computing Facility, University of California, Berkeley

7/2011–6/2012 Vice Chair, Department of Statistics, University of California, Berkeley

7/2011–8/2011 Acting Chair, Department of Statistics, University of California, Berkeley

7/2008–present Faculty, Designated Emphasis in Computational and Data Science and Engineering, University of California, Berkeley

7/1998–present Professor, Department of Statistics, University of California, Berkeley

P.B. Stark: CV

September 4, 2018

2

7/2001–6/2003 Faculty Assistant in Educational Technology (to Vice Provost for Undergraduate Education), University of California, Berkeley

6/1996 Visiting Associate Professor, School of Mathematical Sciences, Tel Aviv University, Tel Aviv, Israel

7/1994–6/1998 Associate Professor, Department of Statistics, University of California, Berkeley

7/1988–6/1994 Assistant Professor, Department of Statistics, University of California, Berkeley

7/1987–6/1990 National Science Foundation Postdoctoral Fellow in Mathematical Sciences

1/1987–6/1987 Postgraduate Research, Department of Statistics, University of California, Berkeley

8/1986–12/1986 Postgraduate Research, Institute for Geophysics and Planetary Physics, UC San Diego

Awards and Fellowships

Velux/Villum Foundation Visiting Professor Programme (2015–2016)

Leamer-Rosenthal Prize for Transparency in Social Science (2015)

Chancellor's Award for Public Service, Research in the Public Interest, University of California, Berkeley (2011)

John Gideon Award for Election Integrity, Election Verification Network (2011)

Mellon Library/Faculty Fellow for Undergraduate Research (2006–2007)

Presidential Chair Fellow, University of California, Berkeley (2003–2004)

Fellow, American Statistical Association (selected 2014)

P.B. Stark: CV

September 4, 2018

3

Fellow, Institute of Physics (elected 1999)

Miller Research Professor, Miller Institute for Basic Research in Science (1999)

Dobson Fellow, University of California at Berkeley (1998, 1999)

Presidential Young Investigator (1989–1995)

National Science Foundation Postdoctoral Fellowship in Mathematical Sciences (1987–1989)

University Fellowship, University of Texas at Austin (1982–1983)

Affiliations

Association of Foragers

Berkeley Institute for Data Science (BIDS), University of California, Berkeley

Berkeley Food Institute, University of California, Berkeley

Berkeley Open Source Food, University of California, Berkeley

Center for Astrostatistics, Pennsylvania State University

Global Oscillation Network Group (GONG)

National Partnership for Advanced Computational Infrastructure (NPACI)

Simons Institute for the Theory of Computing, University of California, Berkeley

Solar and Heliospheric Observatory Solar Oscillations Investigation (SOHO-SOI)

Space Sciences Laboratory, University of California, Berkeley

Theoretical Astrophysics Center, University of California, Berkeley

P.B. Stark: CV

September 4, 2018

4

Professional Societies

American Statistical Association: Fellow and Accredited Professional Statistician

Bernoulli Society for Mathematical Statistics and Probability

Institute of Mathematical Statistics

Institute of Physics: Fellow and Chartered Physicist

International Statistical Institute

Royal Astronomical Society: Fellow

Education

A.B. 1980, Princeton University, Princeton, New Jersey

Ph.D. 1986, University of California, San Diego, La Jolla, California

Mentors

Robert L. Parker, Institute for Geophysics and Planetary Physics, Scripps Institution of Oceanography, University of California, San Diego (PhD dissertation advisor)

George E. Backus, Institute for Geophysics and Planetary Physics, Scripps Institution of Oceanography, University of California, San Diego (postdoctoral advisor)

David L. Donoho, Department of Statistics, Stanford University (post-doctoral advisor)

Publications

Refereed Publications

1. Stark, P.B. and C. Frohlich, 1985. The depths of the deepest deep Earthquakes, *Journal of Geophysical Research*, *90*, 1859–1869.
2. Stark, P.B., R.L. Parker, G. Masters, and J.A. Orcutt, 1986. Strict bounds on seismic velocity in the spherical Earth, *Journal of Geophysical Research*, *91*, 13,892–13,902.
3. Stark, P.B., 1986. *Travel-Time Inversion: Regularization and Inference*, Ph.D. Thesis, Scripps Institution of Oceanography, University of California, San Diego, 106pp.
4. Stark, P.B., and R.L. Parker, 1987. Smooth profiles from tau(p) and X(p) data, *Geophysical Journal of the Royal Astronomical Society*, *89*, 2713–2719.
5. Stark, P.B., and R.L. Parker, 1987. Velocity bounds from statistical estimates of tau(p) and X(p), *Journal of Geophysical Research*, *92*, 2713–2719.
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249. Securing our Elections, Town Hall Meeting with Congressman Mark DeSaulnier and Secretary of State Alex Padilla, Walnut Creek, CA, 13 August 2018. <https://desaulnier.house.gov/media-center/press-releases/congressman-desaulnier-announces-town-hall-securing-our-elections>
248. Soil to Belly, Health from the Soil Up: A Soil Health to Human Health Learning Lab, Paicines Ranch, Paicines, CA, 9–12 August, 2018.
247. You want flies with that? Farm Biodiversity and Food Safety, Health from the Soil Up: Bridging the Silos of Health and Agriculture, Center for Occupational and Environmental Health, University of California, Berkeley, 9 August 2018. <https://www.stat.berkeley.edu/~stark/Seminars/flies18.pdf>
246. Lectures on Foundations of Statistics and Inference, Tokyo-Berkeley Data Science Boot-Up Camp, 9–19 July 2018, Graduate School of Mathematical Sciences, University of Tokyo, 9–19 July 2018. (3 lectures) Syllabus: <https://github.com/pbstark/basicsKavli18/blob/master/kavliStat18.pdf>

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245. With Great Power Comes Great Responsibility: Multivariate Permutation Tests and Their Numerical Implementation, International Society for Nonparametric Statistics (ISNPS2018), Salerno, Italy, 11–15 June 2018. <https://www.stat.berkeley.edu/~stark/Seminars/prngISNPS18.slides.html>
244. Preproducibility, Reproducibility, Replicability: First Things First, Conference on Geodynamics and Big Data, Palau, Sardinia, 9–11 June 2018. <https://www.stat.berkeley.edu/~stark/Seminars/reproYuen18.htm>
243. Preproducibility, Reproducibility, Replicability: First Things First, All Souls College, University of Oxford, 29 May 2018. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/reproOX18.htm>
242. Separating Signal from Noise: Measuring Gender Bias in Student Evaluations of Teaching, International Conference on Software Engineering, Gothenburg, Sweden, 27 May-3 June 2018. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/setICSE18.htm>
241. Where the Wild Foods Are: Everywhere!, Nordic Food Lab, University of Copenhagen, Copenhagen, Denmark, 24 May 2018. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/bosf18.pdf>
240. Wild and Feral Foods in the Mission District—and how to use them, Wildhawk, San Francisco, CA, 17 May 2018.
239. Don't bet on your random number generator, Department of Statistics and Data Science, University of Texas, Austin, TX 4 May 2018.
238. Student evaluations of teaching (mostly) do not measure teaching effectiveness, Simon Fraser University, Burnaby, BC, 26 April 2018. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/setSFU>

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18.htm Video: <https://www.youtube.com/watch?v=5ha0jlfJDb8&feature=youtu.be>

237. Public Engagement with Science, Molecular and Cell Biology 15, University of California, Berkeley, CA, 27 February 2018.
236. FoodInno: Wild Food, Statistics 98, University of California, Berkeley, 12 February 2018.
235. Quantifying Uncertainty in Inferences in Physics and Astronomy, Kavli IPMU–Berkeley Symposium “Statistics, Physics and Astronomy,” Kavli Institute for the Physics and Mathematics of the Universe, Tokyo, Japan, 11–12 January 2018. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/uqKavli18.htm>
234. Teaching Evaluations (Mostly) Do Not Measure Teaching Effectiveness, American Association of Physics Teachers Winter Meeting, San Diego, CA, 6–9 January 2018. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/setAAPT18.htm>
233. Big Data, Society, and Data Science Education, University of Hong Kong, Shenzhen Campus, Shenzhen, China, 29 December 2017. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/bigDataHKUSZ17.pdf>
232. Big Data and Social Good, Institute for Geodesy and Geophysics, Wuhan, China, 27 December 2017.
231. Big Data, Quantifauxcation, and Cargo-Cult Statistics, Big Data Conference, China University of Geosciences, Wuhan, China, 26 December 2017.

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230. *P*-values, Probability, Priors, Rabbits, Quantifauxcation, and Cargo-Cult Statistics, Statistics 159, Reproducible and Collaborative Data Science, University of California, Berkeley, CA, 14 November 2017. Slides: https://www.stat.berkeley.edu/~stark/Seminars/rabbit_s157-17.ipynb
229. Opportunities in applied statistics: an $n = 1$ observational study, Statistics Undergraduate Student Association (SUSA), University of California, Berkeley, CA, 30 October 2017.
228. Don't Bet on Your Random Number Generator, Consortium for Data Analytics in Risk (CDAR) Annual Colloquium, University of California, Berkeley, CA, 27 October 2017. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/prngCDAR17.slides.html>
227. Leave Election Integrity to Chance, *Science @ Cal*, University of California. Berkeley, CA, 21 October 2017.
226. Audits and Evidence-Based Elections, 2nd *Take Back the Vote Conference*, Berkeley, CA, 7–8 October 2017. Video: <https://www.youtube.com/watch?v=pPGTkgpijUU>
225. Wild And Feral Foods: Increasing Nutrition, Food Security, Farm Biodiversity, and Farm Revenue; Decreasing Herbicides, Water Use, and the Carbon Footprint of the Food System, *2nd AgroecoWeb—International Online Congress on Agro-ecology and Permaculture*, Brazil, 4–10 October 2017. Video: <https://vimeo.com/235073616>
224. How Statistics can improve election integrity, PoliSci 191, *The Right to Vote in America*, University of California, Berkeley, 4 October 2017.
223. Wild and Feral Food Identification Walk, ESPM 98, *Berkeley Urban Garden Internship (BUGI)*, University of California, Berkeley, 27

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September 2017.

222. Urban Foraging and Gleaning, *FoodInno*, University of California, Berkeley, 16 September 2017.
221. ETAS-trophic failures: fit, classification, and forecasting, *Big Data in Geosciences: From Earthquake Swarms to Consequences of Slab Dynamics*, a conference in honor of Robert Geller, University of Tokyo, Tokyo, Japan, 25–27 May 2017. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/gellerFest17.pdf>
220. Risk-Limiting Audits, *Global Election Technology Summit*, San Francisco, CA, 17 May 2017. <https://www.getsummit.org/>
219. Where the Wild Things Grow, *Berkeley Path Wanderers Association*, Berkeley, CA, 22 April 2017. <http://berkeleypaths.org/events/event/where-the-wild-things-grow-2/>
218. Sometimes a Paper Trail Isn't Worth the Paper It's Written On, Keynote lecture, Workshop on Advances in Secure Electronic Voting, Financial Crypto 2017, Malta, 3–7 April 2017. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/malta17.htm>
217. Don't Bet on Your Random Number Generator, Distinguished Lecture (http://wwen.uni.lu/snt/distinguished_lectures), Center for Security, Reliability, and Trust, University of Luxembourg, Luxembourg, 31 March 2017. Slides: <https://github.com/pbstark/pseudorandom/blob/master/prngLux17.ipynb>
216. Faculty-Student Feedback: End-of-Semester Teaching Evaluations, Dialogues, Center for Teaching and Learning, University of California, Berkeley, 20 March 2017. Slides: <https://www.stat.berkeley.edu/>

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215. Edible Weeds Tour of South Hayward, Seed Lending Library, Hayward Public Library, Weekes Branch, Hayward, CA, 11 March 2017. <http://www.libraryinsight.com/eventdetails.asp?jx=hzp&lmx=%C7cn%2D%AA%AE&v=3>
214. Risk-limiting Audits and Evidence-based Elections, Santa Clara County Citizens Advisory Committee on Elections, San Jose, CA, 7 March 2017. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/santaClara17.pdf>
213. Causal Inference from Data, Emerging Science for Environmental Health Decisions, Workshop on Advances in Causal Understanding of Human Health Risk-Based Decision Making, National Academy of Sciences, Engineering, and Medicine, Washington, DC, 6–7 March 2017. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/nasCause17.htm>
212. BRII and Brie, Berkeley Research Impact Initiative (BRII), University of California, Berkeley, CA 22 February 2017.
211. Uncertainty Quantification, Conférence Universitaire de Suisse Occidentale, Les Diablerets, Switzerland, 5–8 February 2017. Slides: <http://www.stat.berkeley.edu/~stark/Seminars/lesDiablerets17-1.pdf>, <https://www.stat.berkeley.edu/~stark/Seminars/lesDiablerets17-2.pdf>, <https://www.stat.berkeley.edu/~stark/Seminars/lesDiablerets17-3.pdf>
210. Whose Votes (were) Counted in the Election of 2016?, ISF 198, *The 2016 U.S. Elections in Global Context: A Semester-Long Teach-In*, University of California, Berkeley, 24 January 2017. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/teachIn17.pdf>

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209. Invited panelist, “How Blockchain Technology Will and Won’t Change the World,” University of California, Berkeley, College of Letters and Sciences, hosted by Glynn Capital and Boost VC, San Mateo, CA, 30 November 2016.
208. Teaching Evaluations (Mostly) Do Not Measure Teaching Effectiveness, Distinguished Lecture Series, Department of Computer Science and Engineering, University of California, San Diego, San Diego, CA, 14 November 2016. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/setUCSD16.htm>
207. Simple Random Sampling is not that Simple, *Random Processes And Time Series: Theory And Applications, A Conference In Honor Of Murray Rosenblatt*, UC San Diego, San Diego, CA, 21–23 October 2016.
206. Invited panelist, “Productive Ecologies in the Anthropocene: Foraging Systems,” *Sixth International Conference on Food Studies*, Berkeley, CA, 12–13 October 2016.
205. Teaching Evaluations (Mostly) Do Not Measure Teaching Effectiveness, Ethics Colloquium Series, Colorado State University, Fort Collins, CO, 3 October 2016. Slides: <https://www.stat.berkeley.edu/~stark/Seminars/setCSU16.htm> Video: <https://echo.colostate.edu/ess/echo/presentation/64309bd5-6afd-4394-b5d3-5e6748f545f1>
204. Simple Random Sampling is not that Simple, Neyman Seminar, Department of Statistics, University of California, Berkeley, Berkeley, CA 21 September 2016.
203. The Aliens Have Landed ... and They Are Delicious, *Visions of the Wild*, Vallejo, CA, 15 September 2016.

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202. Simple Random Sampling: Not So Simple, Section of Theoretical Computer Science, IT University of Copenhagen, Copenhagen, Denmark, 27 June 2016.
201. Simple Random Sampling: Not So Simple, Section of Mathematics, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland, 24 June 2016.
200. Invited panelist, “Carrot vs. Stick: approaches to encouraging reproducibility,” Moore-Sloan Data Science Environment Reproducibility Conference, New York University, New York, 3 May 2016.
199. Guest lecturer, MCB 15 (Public Understanding of Science), University of California, Berkeley, 12 April 2016.
198. Teaching Evaluations: Biased Beyond Measure, Center for Studies in Higher Education, and The Social Science Matrix, University of California, Berkeley, CA 11 April 2016. <https://www.stat.berkeley.edu/~stark/Seminars/setCSHE16.htm> Video: <https://www.youtube.com/watch?v=yhxUxBk-6GE>, <http://uctv.tv/shows/Teaching-Evaluations-Biased-Beyond-Measure-30870>
197. Teaching Evaluations (Mostly) Do Not Measure Teaching Effectiveness, Wharton Statistics Department, University of Pennsylvania, Philadelphia, PA, 17 March 2016. <https://www.stat.berkeley.edu/~stark/Seminars/setPenn16.htm>
196. Invited Panelist, “The potentials and pitfalls of electronic auditing,” Election Verification Network Conference: Securing Elections in the 21st Century, George Washington University, Washington, DC, 10–11 March 2016.

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195. Invited Panelist, “Interoperability standards, proprietary codes, and verification/testing,” III Arnold Workshop: Reproducibility in Modeling and Code, American Association for the Advancement of Science, Washington, DC, 16–17 January 2016. <http://www.aaas.org/event/iii-arnold-workshop-modeling-and-code>
194. Teaching Evaluations (Mostly) Do Not Measure Teaching Effectiveness, Department of Applied Mathematics and Statistics, University of California, Santa Cruz, 1 February 2016. <https://www.stat.berkeley.edu/~stark/Seminars/setUCSC16.htm>
193. A Noob’s Guide to Reproducibility and Open Science, Department of Nuclear Engineering, Berkeley Institute for Data Science, and Berkeley Initiative for Transparency in Social Science, University of California, Berkeley, 25 January 2016. <https://www.stat.berkeley.edu/~stark/Seminars/reproNE16.htm> Video: <http://www.ustream.tv/recorded/81987743>
192. Chair, Wild Edibles Taste Workshop, 2015 Indigenous Terra Madre Conference, Shillong, Meghalaya, India, 3–7 November, 2015.
191. Invited Panelist, “From Field to Fork, the Stories of Chefs, Communities, and Writers,” 2015 Indigenous Terra Madre Conference, Shillong, Meghalaya, India, 3–7 November, 2015. <https://www.stat.berkeley.edu/~stark/Seminars/forageITM15.htm>
190. Guest lecturer, ESPM 117 (Urban Garden Ecosystems), University of California, Berkeley, 20 October 2015. <https://www.stat.berkeley.edu/~stark/Seminars/forageAgroEcol15.htm>
189. Invited Panelist, “Statistical Implications of Big Data Applied to Risk Modeling,” Consortium for Data Analytics in Risk (CDAR) Symposium, University of California, Berkeley, 16 October 2015. <http://www.stat.berkeley.edu/~stark/Seminars/CDAR15.htm>

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[p://cdar.berkeley.edu/events/2015cdarsymposium/](http://cdar.berkeley.edu/events/2015cdarsymposium/)

188. Guest lecturer, Statistics 210A (Theoretical Statistics), University of California, Berkeley, 13–15 October 2015. <https://github.com/pbstark/Nonpar>
187. Risk-Limiting Audits and the Colorado Uniform Voting System Pilot, Colorado Pilot Election Review Committee Meeting, Office of the Colorado Secretary of State, Denver, CO, 9 October 2015. <https://www.stat.berkeley.edu/~stark/Seminars/auditC015.pdf>
186. Wild and Feral Food in EBRPD, East Bay Regional Park District Volunteer Meeting, Oakland, CA, 15 September 2015. <https://www.stat.berkeley.edu/~stark/Seminars/forageEBRPD15.htm>
185. Probability and Statistics for Physical Science and Engineering PhD Students (a 15-hour course), University of Tokyo, 23–26 August 2015. Materials: <http://www.github.com/pbstark/PhysEng>
184. Statistics for Engineering PhD students (a 30-hour course), University of Padova, Padova, Italy, 29 June–7 July 2015. Materials: <http://www.github.com/pbstark/Padova15>
183. Pay no attention to the model behind the curtain, Significant Digits: Responsible Use of Quantitative Information, European Commission Joint Research Centre, Brussels, Belgium, 9–10 June 2015. <https://www.stat.berkeley.edu/~stark/Seminars/rabbitsBrux15.htm>
182. Reaping without Sowing: Wild Food and Urban Foraging, Berkeley Food Institute Seed Grant Forum, Berkeley, CA, 6 May 2015. <https://www.stat.berkeley.edu/~stark/Seminars/bfi-15-5-6.htm>
Video: <http://food.berkeley.edu/seed-grant-forum/>

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181. Invited panelist, Data Science: Supporting new Modes of Research, Annual Meeting of the Association of Research Libraries, Berkeley, CA, 28–30 April, 2015.
180. Teaching evaluations: class act or class action?, National Center for the Study of Collective Bargaining in Higher Education and the Professions, Annual Conference, Hunter College, New York, NY, 19–21 April 2015. <https://www.stat.berkeley.edu/~stark/Seminars/setNCSCB15.htm>
179. Where the Wild Things Grow, Berkeley Path Wanderers Association, Berkeley, CA, 4 April 2015. <http://berkeleypaths.org/events/event/where-the-wild-things-grow/>
178. Invited panelist, Brave New Audits: How We Can Implement Risk-Limiting Audits with Today's Machines, Off-the-Shelf Hardware, and Open Source Software, 2015 Election Verification Network Annual meeting, New Orleans, LA, 4–6 March 2015. <https://www.stat.berkeley.edu/~stark/Seminars/evn15.htm> Video: <https://youtu.be/DBcVicxJigs>
177. Co-chair, Election Auditing, NIST / U.S. Election Administration Commission Future of Voting Systems Symposium II, Washington, DC, 9–10 February 2015.
176. Teaching evaluations: truthful or truthy?, European Commission Joint Research Centre *Third Lisbon Research Workshop on Economics, Statistics and Econometrics of Education*, Lisbon, Portugal, 23–24 January 2015. <http://cemapre.iseg.ulisboa.pt/educonf/3e3/> <https://www.stat.berkeley.edu/~stark/Seminars/setLisbon15.htm>
175. Bad Numbers, Bad Policy, 5th Impact Assessment Course by the Joint Research Centre and the Secretariat General of the European

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Commission, Brussels, Belgium, 20–21 January 2015. <https://ec.europa.eu/jrc/en/event/training-course/5th-impact-assessment-course> <https://www.stat.berkeley.edu/~stark/Seminars/fauxBrux15.htm>

174. Quantifauxcation, European Commission Joint Research Centre, Ispra, Italy, 19 January 2015. <https://www.stat.berkeley.edu/~stark/Seminars/fauxIspra15.htm>
173. Preproducibility for Research, Teaching, Collaboration, and Publishing, Replicability and Reproducibility of Discoveries in Animal Phenotyping, Tel Aviv University, Tel Aviv, Israel, 5–7 January 2015. <https://www.stat.berkeley.edu/~stark/Seminars/reproTAU15.htm>
Video: http://video.tau.ac.il/events/index.php?option=com_k2&view=item&id=5563:preproducibility-for-research-teaching-collaboration-and-publishing&Itemid=552
172. Urban Foraging—Real Street Food, Discover Cal: A Menu for Change, Los Angeles, CA, 18 November 2014. <https://www.stat.berkeley.edu/~stark/Seminars/discoverCallA14.htm>
171. Guest lecturer, 6.S897/17.S952: Elections and Voting Technology, MIT, 13 November 2014.
170. Open Geospatial Data Down in the Weeds: Urban Foraging, Food Deserts, Citizen Science, Sustainability, and Reproducibility, Assessing the Socioeconomic Impacts and Value of ‘Open’ Geospatial Information, The George Washington University, Washington DC, 28–29 October 2014. <https://www.stat.berkeley.edu/~stark/Seminars/openGeospatial14.htm>
169. Student Evaluations of Teaching, University of San Francisco, 23 October 2014. <https://www.stat.berkeley.edu/~stark/Seminars>

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168. Guest lecturer, CS 76N: Elections and Technology, Stanford University, 14 October 2014.
167. Statistical Evidence and Election Integrity, XXIX International Forum on Statistics, UPAEP, Puebla, Mexico, 29 September–3 October 2014. <https://www.stat.berkeley.edu/~stark/Seminars/foro14.pdf>
166. Nonparametric Inference, Auditing, and Litigation, Short course at XXIX International Forum on Statistics, UPAEP, Puebla, Mexico, 29 September–3 October 2014. <https://github.com/pbstark/MX14>
165. Invited participant, Pew Charitable Trusts roundtable: Challenges Related to the Voting Systems Marketplace, Chicago, IL, 8 September 2014.
164. Invited panelist, U.S. Election Assistance Commission roundtable: Expanding the Body of Knowledge of Election Administration—Reflections and Future Direction, 3 September 2014. http://www.eac.gov/eac_grants_expanding_the_body_of_knowledge_of_election_administration_%E2%80%93reflections_and_future_dire/
Video: <http://mediasite.yorkcast.com/webcast/Play/a90f223fa61940cd893b70fab55fe1b51d>
163. Reproducibility, Evidence, and the Scientific Method, Late-breaking session on Reproducibility, Joint Statistical Meetings, Boston, MA, 2–7 August 2014. <https://www.stat.berkeley.edu/~stark/Seminars/reproJSM14.htm>
162. Invited panelist, Big Data & Academic Libraries, International Alliance of Research Universities, 3rd Librarians’ Meeting, University

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of California, Berkeley, CA, 23–24 June 2014.

161. Mini-Minimax Uncertainty Quantification for Emulators, 2nd Conference of the International Society for Nonparametric Statistics, Cadiz, Spain, 11–16 June 2014. <https://www.stat.berkeley.edu/~stark/Seminars/emulatorISNPS14.pdf>
160. Reproducible and Collaborative Statistical Data Science, Transparency Practices for Empirical Social Science Research, 2014 Summer Institute, University of California, Berkeley, CA, 2–6 June 2014. <https://www.stat.berkeley.edu/~stark/Seminars/bitss14.pdf>
159. Risk-Limiting Audits for Denmark and Mongolia, Third DemTech Workshop on Danish Elections, Trust, and Technology for the Mongolian General Election Commission, IT University of Copenhagen, Copenhagen, Denmark, 24 May 2014. <https://www.stat.berkeley.edu/~stark/Seminars/itu14.pdf>
158. How to Lie With Big Data (and/or Big Computations), Panel on Data Deluge or Drought (Quality and Quantity), MPE13+ Workshop on Global Change, DIMACS Special Program: Mathematics of Planet Earth 2013+, University of California, Berkeley, CA, 19–21 May 2014. <https://www.stat.berkeley.edu/~stark/Seminars/mpe14.pdf>
157. Invited panelist, Relying on Data Science: Reproducible Research and the Role of Policy, DataEDGE conference, UC Berkeley School of Information, Berkeley, CA, 8–9 May 2014.
156. Invited panelist, Some Tools and Solutions, University of Washington / Moore–Sloan First Reproducibility Workshop, eScience Institute, University of Washington, Seattle, WA, 8 May 2014 <https://www.stat.berkeley.edu/~stark/Seminars/reproUW14.pdf>

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155. Some people have all the luck, Institute for Pure and Applied Mathematics, UCLA, Los Angeles, CA, 28 April 2014. (with Skip Garibaldi and Lawrence Mower) <http://www.ipam.ucla.edu/programs/PUBLIC2014/> Video: <https://www.youtube.com/watch?v=s8cHHWNb1A4>
154. Invited panelist, Ask a Statistician, SIAM/ASA/GAMM/AGU Conference on Uncertainty Quantification, Savannah, GA, 29 March – 3 April 2014.
153. Invited panelist, The Reliability of Computational Research Findings: Reproducible Research, Uncertainty Quantification, and Verification & Validation, SIAM/ASA/GAMM/AGU Conference on Uncertainty Quantification, Savannah, GA, 29 March – 3 April 2014. <https://www.stat.berkeley.edu/~stark/Seminars/reproUQ14.pdf> Video: http://client.blueskybroadcast.com/SIAM14/UQ/siam_uq14_MS42_3
152. Invited panelist, New Paradigms for Voting Systems, 2014 Election Verification Network Annual meeting, San Diego, CA, 5–7 March 2014. <https://www.stat.berkeley.edu/~stark/Seminars/evn14NewParadigms.pdf> Video: <https://www.youtube.com/watch?v=bT1HYkiYBZI>
151. Invited panelist, End-to-End Verifiable Voting Roundtable, 2014 Election Verification Network Annual meeting, San Diego, CA, 5–7 March 2014. Video: https://www.youtube.com/watch?v=jsGSQV_rFzA
150. Invited panelist, Improving Teaching through uncharted Waters: Peer Observation and other Approaches, Dialogues, a Colloquium Series on Teaching, Center for Teaching and Learning, University of California, Berkeley, 26 February 2014. <http://teaching.berkeley.edu/dialogues-colloquium-series-teaching>

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149. Invited panelist, Unpacking the Voting Technology Debate, 2014 Voting and Elections Annual Summit, Overseas Vote Foundation and U.S. Vote Foundation, George Washington University, Washington, D.C., 30 January 2014. <https://www.overseasvotefoundation.org/initiatives-UOCAVASummit-summit2014-agenda> Video: <http://www.youtube.com/watch?v=UXqqn0WhsmA&list=PLtRB8fQ0zBR8Nza-G-RGln-HTrkp4UM6F&feature=share&index=1#t=23m30s>
148. Risk-Limiting Audits for Party-List Elections. IT University of Copenhagen, Copenhagen, Denmark, 21 November 2013. <https://www.stat.berkeley.edu/~stark/Seminars/itu13.pdf>
147. Selective Inference and Conditional Tests. Department of Statistics and Operations Research, Tel Aviv University, Tel Aviv, Israel, 28 October 2013.
146. Ontology of Earthquake Probability: Metaphor. Dynamics of Seismicity, Earthquake Clustering and Patterns in Fault Networks, Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, NC, 9–11 October 2013. <https://www.stat.berkeley.edu/~stark/Seminars/samsiSeis13.pdf>
145. Invited panelist, Innovations in On-line Learning, Designing a World University, World Academy Forum on Global Higher Education, Berkeley, California, 2–3 October 2013.
144. E2E to Hand-to-Eye: Verifiability, Trust, Audits, Vote ID 2013: The 4th International Conference on e-Voting and Identity, University of Surrey, Guildford, UK 17–19 July 2013. <https://www.stat.berkeley.edu/~stark/Seminars/voteID13.pdf>
143. Mini-Minimax Uncertainty of Emulators, Center for Security, Reliability, and Trust, University of Luxembourg, Luxembourg, 9 July 2013. <https://www.stat.berkeley.edu/~starkstark/Seminars/emulato>

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142. Invited panelist, Extracting Actionable Insight From Dirty Time-Series Data, Berkeley Research Data Science Lectures, University of California, Berkeley, 21 June 2013. Video: <http://vcresearch.berkeley.edu/datascience/webcast-data-science-lecture-series-june-21>
141. Uncertainty quantification for emulators, Dipartimento di Fisica e Astronomia, Università di Bologna, Bologna, Italy, 5 June 2013. <http://www.stat.berkeley.edu/~stark/Seminars/emulatorUniBo13.pdf>
140. Leveraging Paper Ballots, Running Elections Efficiently, A Best Practices Convening, Common Cause – Common Cause / NY – Columbia University School of International and Public Affairs, Columbia University, New York, NY, 20 May 2013. <https://www.stat.berkeley.edu/~stark/Seminars/ccNY13.pdf>
139. Uncertainty quantification for emulators, University of California, Los Angeles, 11 April 2013. <https://www.stat.berkeley.edu/~stark/Seminars/emulatorUCLA13.pdf>
138. Brittle and Resilient Verifiable Voting Systems, Verifiable Voting Schemes Workshop: from Theory to Practice, Interdisciplinary Centre for Security, Reliability and Trust, University of Luxembourg, Luxembourg 21–22 March 2013. <https://www.stat.berkeley.edu/~stark/Seminars/vv13.pdf>
137. Now What?, Election Verification Network Annual Conference, The Right to a Secure, Transparent and Accurate Election, Atlanta, Georgia 14–15 March 2013. <https://www.stat.berkeley.edu/~stark/Seminars/evn13nowWhat.pdf>

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136. Machine-Assisted Transitive Audits, Election Verification Network Annual Conference, The Right to a Secure, Transparent and Accurate Election, Atlanta, Georgia 14–15 March 2013.
135. Risk-limiting Audits and Evidence-Based Elections in a Nutshell, Election Verification Network Annual Conference, The Right to a Secure, Transparent and Accurate Election, Atlanta, Georgia 14–15 March 2013. <https://www.stat.berkeley.edu/~stark/Seminars/e vn13nutshell.pdf>
134. Reproducibility in Computational and Experimental Mathematics, ICERM, Brown University, Providence, RI, 10–14 December 2012. <http://icerm.brown.edu/tw12-5-rcem>
133. Whaddya know? Bayesian and Frequentist approaches to inverse problems, Inverse Problems: Practical Applications and Advanced Analysis, Schlumberger WesternGeco, Houston, TX, 12–15 November 2012. <https://www.stat.berkeley.edu/~stark/Seminars/swg12.pdf>
132. Evidence-Based Elections, E-Voting: Risk and Opportunity Conference, Center for Information Technology Policy, Princeton University, Princeton, NJ, 1 November 2012. <https://www.stat.berkeley.edu/~stark/Seminars/princeton12.pdf> Video: http://youtu.be/1Z6JW1t_sFI
131. Evidence-Based Elections, Berkeley/Stanford Data, Society and Inference Seminar, Stanford University, Stanford, CA 8 October 2012. <https://www.stat.berkeley.edu/~stark/Seminars/dataSocietyInference12.pdf>
130. Voting Technology Exploratory Meeting, The Pew Charitable Trusts Center on the States, Santa Monica, CA 23–24 August 2012.

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129. Lightning Debates, Workshop on Electronic Voting Technology / Workshop on Transparent Elections, (EVT/WOTE '12), USENIX, Bellevue, WA, 6–7 August 2012. Video: <https://www.usenix.org/conference/ewtwote12/panel-2-title-tbd>
128. BRAVO: Ballot-polling Risk-limiting Audits to Verify Outcomes, Workshop on Electronic Voting Technology / Workshop on Transparent Elections, (EVT/WOTE '12), USENIX, Bellevue, WA, 6–7 August 2012. <https://www.stat.berkeley.edu/~stark/Seminars/evt12.pdf> Video: <https://www.usenix.org/conference/ewtwote12/s6-paper-title-tbd>
127. The Will of the People and the Luck of the Draw: Using Statistics to Limit the Risk of Wrong Electoral Outcomes, Joint Statistical Meetings, San Diego, CA, 29 July 2012. <https://www.stat.berkeley.edu/~stark/Seminars/jsm12.pdf>
126. Evidence-Based Elections, Risk-Limiting Audits, and Resilient Canvass Frameworks, SecVote 2012 Summer School on Secure Voting, Leibniz-Zentrum für Informatik, Schloss Dagstuhl, Germany, 16 July 2012. <https://www.stat.berkeley.edu/~stark/Seminars/dagstuhl12.pdf>
125. The Effectiveness of Internet Content Filters, Distinguished Lecture (http://wwen.uni.lu/snt/distinguished_lectures), Center for Security, Reliability, and Trust, University of Luxembourg, Luxembourg, 13 July 2012. <https://www.stat.berkeley.edu/~stark/Seminars/luxembourg12.pdf>
124. Evidence-Based Elections, International Association of Clerks, Recorders, Election Officials & Treasurers (IACREOT) annual conference, Albuquerque, NM, 30 June 2012. <https://www.stat.berkeley.edu/~stark/Seminars/iacreot12.pdf>

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123. Confidence Limits, Progress on Statistical Issues in Searches, SLAC National Accelerator Laboratory, Stanford, CA, 4–6 June 2012. <http://www.stat.berkeley.edu/~stark/Seminars/slac12.pdf>
122. UQQ, UQ: Transition Workshop, Statistical and Applied Mathematical Sciences Institute (SAMSI), Research Triangle Park, NC, 21–23 May 2012. <https://www.stat.berkeley.edu/~stark/Seminars/samsi12.pdf>
121. Testing for Poisson Behavior, Seismological Society of America Annual Meeting, San Diego, CA, 17–19 April 2012. <https://www.stat.berkeley.edu/~stark/Seminars/ssa12.pdf>
120. Get Out The Audit (GOTA), Election Verification Network Annual Conference, Santa Fe, NM, 29–30 March 2012. <https://www.stat.berkeley.edu/~stark/Seminars/evnGOTA12.pdf>
119. The Long View: Evidence-Based Elections, Election Verification Network Annual Conference, Santa Fe, NM, 29–30 March 2012. <https://www.stat.berkeley.edu/~stark/Seminars/evnLongView12.pdf>
118. The Will of the People and the Luck of the Draw: Risk-Limiting Audits and Resilient Canvass Frameworks, San Francisco Chapter of the American Statistical Association, Berkeley, CA, 16 February 2012. <https://www.stat.berkeley.edu/~stark/Seminars/asa12.pdf>
117. Evidence-Based Elections: Colorado's Future?, Colorado Elections Best Practices & Vision Commission, Denver, CO, 14 December 2011. <https://www.stat.berkeley.edu/~stark/Seminars/co-11-12-14.pdf> Audio: <mms://pub.sos.state.co.us/20111214130705B>
116. From the Virtual Trenches, *Letters and Sciences Colloquium on Undergraduate Education: The Virtual University—Challenges and*

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Opportunities, University of California, Berkeley, CA, 16 November 2011. <http://ls.berkeley.edu/stories/archive/fall-2011-collquium-undergraduate-education-0> <https://www.stat.berkeley.edu/~stark/Seminars/onlineEd11.pdf> Video: <http://www.youtube.com/watch?v=40vGDuPSJso>

115. Earthquake Clustering and Declustering, Institute de Physique du Globe de Paris, Paris, France, 4 October 2011. <https://www.stat.berkeley.edu/~stark/Seminars/ipg11.pdf>
114. Fears, Predictions, Hopes & Plans, *Panel on the Future*, Election Integrity: Past, Present, and Future, Caltech/MIT Voting Technology Project, Cambridge, MA, 1 October 2011. <https://www.stat.berkeley.edu/~stark/Seminars/mit11.pdf> Video: <http://techtv.mit.edu/collections/vtp/videos/14802-eippf-2011-3-the-future>
113. Risk-limiting Audits: Soup to Nuts, and Beyond, Workshop on Electronic Voting Technology / Workshop on Transparent Elections, (EVT/WOTE '11), USENIX, San Francisco, CA, 9 August 2011. <https://www.stat.berkeley.edu/~stark/Seminars/evtRLA11.pdf>
112. SOBA: Secrecy-preserving Observable Ballot-level Audit, Workshop on Electronic Voting Technology / Workshop on Transparent Elections, (EVT/WOTE '11), USENIX, San Francisco, CA, 9 August 2011. <https://www.stat.berkeley.edu/~stark/Seminars/evtSoba11.pdf>
111. The Effectiveness of Internet Content Filtering, Workshop on Free and Open Communication on the Internet (FOCI '11), USENIX, San Francisco, CA, 8 August 2011. <https://www.stat.berkeley.edu/~stark/Seminars/foci11.pdf>
110. SticiGui, Onsophic, and Statistics W21, Panel on online instruction, Joint Statistical Meetings, Miami Beach, FL, 31 August 2011. <https://www.stat.berkeley.edu/~stark/Seminars/sticiGui11.pdf>

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[//www.stat.berkeley.edu/~stark/Seminars/jsm11.pdf](https://www.stat.berkeley.edu/~stark/Seminars/jsm11.pdf)

109. Risk Limiting Audits, Colorado Secretary of State, Colorado Risk Limiting Audit (CORLA) Kick-off Meeting, Denver, CO, 16 June 2011. <https://www.stat.berkeley.edu/~stark/Seminars/co-11-6-16.pdf>
108. Simultaneous Confidence Intervals with more Power to Determine Signs, Conference in honor of Erich Lehmann, Rice University, Houston, TX, 12 May 2011. <https://www.stat.berkeley.edu/~stark/Seminars/lehmann11.pdf>
107. Close enough for government [to] work, Verified Voting Foundation, Palo Alto, CA, 27 April 2011. <https://www.stat.berkeley.edu/~stark/Seminars/vv-11-4-27.pdf>
106. Close enough for government [to] work: Risk-limiting post-election audits, Berkeley-Stanford Joint Statistics Colloquium, Stanford University, Stanford, CA, 12 April 2011. <https://www.stat.berkeley.edu/~stark/Seminars/stanford11.pdf>
105. Audits: The After-Math of Elections, Verify early, verify often: creating secure, transparent and accurate elections, Election Verification Network, Chicago, IL, 25–26 March 2011. <https://www.stat.berkeley.edu/~stark/Seminars/reed11.pdf>
104. Simultaneous Confidence Intervals with more Power to Determine Signs, Department of Mathematics, Reed College, Portland, OR, 10 March 2011. <https://www.stat.berkeley.edu/~stark/Seminars/reed11.pdf>
103. Close enough for government work: Risk-Limiting Post-Election Audits, Wharton Statistics Department, University of Pennsylvania,

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Philadelphia, PA, 26 January 2011. <https://www.stat.berkeley.edu/~stark/Seminars/penn11.pdf>

102. Audits: The After-Math of Election Reform, Conference on Innovative Electoral Reforms and Strategies, Washington, DC, 10–11 December 2010. <https://www.stat.berkeley.edu/~stark/Seminars/innovative10.pdf>
101. Risk-Limiting Post-Election Audits: Statistics, Policy, and Politics, Department of Statistics, Rice University, Houston, TX, 1 November 2010. <https://www.stat.berkeley.edu/~stark/Seminars/rice10.pdf>
100. Are Declustered Earthquake Catalogs Poisson?, Department of Statistics, Pennsylvania State University, State College, PA, 14 October 2010. <https://www.stat.berkeley.edu/~stark/Seminars/psu10.pdf>
99. Super-simple simultaneous single-ballot risk-limiting audits, 2010 Electronic Voting Technology Workshop / Workshop on Trustworthy Elections (EVT/WOTE '10), Washington, DC, 9–10 August 2010. <https://www.stat.berkeley.edu/~stark/Seminars/evtwote10.pdf>
98. AB 2023 and Risk-Limiting Audits, California Association of Clerks and Election Officials Legislative Committee Meeting, 14 May 2010. <https://www.stat.berkeley.edu/~stark/Seminars/caceo-legis10.pdf>
97. Justice and inequalities, Department of Statistics and Operations Research, Tel Aviv University, Tel Aviv, Israel, 13 April 2010. <https://www.stat.berkeley.edu/~stark/Seminars/tau10.pdf>

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96. Size Matters: Smaller Batches Yield More Efficient Risk-Limiting Audits, Small-Batch Audit Meeting, Washington, DC, 27–28 March 2010. <https://www.stat.berkeley.edu/~stark/Seminars/smallBatch10.pdf>
95. Sexy Audits and the Single Ballot, Election Verification Network (EVN) annual conference, Washington, DC, 25–27 March 2010. <http://www.stat.berkeley.edu/~stark/Seminars/evn10.pdf>
94. Simple, Affordable, Post-Election Audits, Institute for Mathematical Behavioral Sciences, University of California, Irvine, CA, 7 January 2010. <https://www.stat.berkeley.edu/~stark/Seminars/uci10.pdf>
93. Efficient Post-Election Audits of Multiple Contests: 2009 California Tests, Conference on Empirical Legal Studies, University of Southern California Gould School of Law, Los Angeles, CA, 20–21 November 2009. <https://www.stat.berkeley.edu/~stark/Seminars/cels09.pdf>
92. Risk-Limiting Audits, Audit Working Meeting, American Statistical Association, Arlington, VA, 23–24 October 2009. <https://www.stat.berkeley.edu/~stark/Seminars/asa09.pdf>
91. Invited panelist, Uncertainty Quantification and Error Analysis, Scientific Grand Challenges in National Security: the Role of Computing at the Extreme Scale, Washington, DC, 6–8 October 2009.
90. Some Ado about (mostly) Nothing: zero-dominated data, Alameda County Workshop on Avian Mortality at Altamont, Emeryville, CA, 22 September 2009. <https://www.stat.berkeley.edu/~stark/Seminars/altamont09.pdf>

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89. Freedman's Dialogue with the Social Sciences, 2009 Joint Statistical Meetings, Washington, DC, 5 August 2009.
88. Invited panelist, David A. Freedman's Dialogue with the Social Sciences, The Society for Political Methodology 26th Annual Summer Meeting, Institution for Social and Policy Studies, Yale University, New Haven, CT, 23 July 2009.
87. Election Auditing: How Much is Enough?, The Society for Political Methodology 26th Annual Summer Meeting, Institution for Social and Policy Studies, Yale University, 23 July 2009. (Keynote lecture) <http://www.stat.berkeley.edu/~stark/Seminars/polMeth09.pdf>
86. Risk-Limiting Post-Election Audits, Department of Statistics, University of California, Berkeley, CA, 31 March 2009. <https://www.stat.berkeley.edu/~stark/Seminars/ucb09.pdf>
85. Uncertainty Quantification Qualification, Lawrence Livermore National Laboratory, Livermore, CA, 26 March 2009. <https://www.stat.berkeley.edu/~stark/Seminars/11n109.pdf>
84. 2008 Risk-limiting Audits in California, The Pew Charitable Trusts Audit Workshop, Salt Lake City, UT, 23–24 February 2009. <https://www.stat.berkeley.edu/~stark/Seminars/pew09.pdf>
83. Election Auditing and Nonparametric Confidence Bounds, Department of Mathematics, Reed College, Portland, OR, 20 November 2008. <https://www.stat.berkeley.edu/~stark/Seminars/reed08.pdf>
82. Risk-Limiting Post-Election Audits, Department of Statistics, Kansas State University, Manhattan, KS, 2 October 2008. <https://www.stat.berkeley.edu/~stark/Seminars/ksu08.pdf>

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81. CAST: Canvass Audits by Sampling and Testing, 2008 American Political Science Association Annual Meeting, Panel 2008MP04292: Catch Me If You Can: Techniques to Detect Electoral Fraud, Boston, MA, 28–31 August 2008. <https://www.stat.berkeley.edu/~stark/Seminars/apsa08.pdf>
80. Invited panelist, Joint Statistical Meetings session, Statistical Measures Can Help Restore Confidence in U.S. Elections, Denver, CO, 3–7 August 2008.
79. Invited Panel on Post-Election Auditing: The Academic & Advocacy Perspective, California Association of Clerks and Election Officials (CACEO) 100th Anniversary Celebration Conference, Long Beach, CA, 8–11 July 2008.
78. Statistical Audits: Why and How Much?, Invited Panel on Post-Election Auditing: Practical Experience and Best Practices, California Association of Clerks and Election Officials (CACEO) 100th Anniversary Celebration Conference, Long Beach, CA, 8–11 July 2008. <https://www.stat.berkeley.edu/~stark/Seminars/caceo08.pdf>
77. Invited Panel on Online Learning, UC21st Century, Teaching, Learning and Technology: Past, present and future, University of California, Davis, 20–21 June 2008.
76. SticiGui—What is it?, Department of Statistics, University of California, Los Angeles, CA, 29 May 2008. <https://www.stat.berkeley.edu/~stark/Seminars/ucla08.pdf>
75. Election Auditing: How Much Is Enough?, Mathematical Sciences Research Institute, Annual Meeting of Academic Sponsors and Steering Committee, Berkeley, CA, 7 March 2008. <https://www.stat.berkeley.edu/~stark/Seminars/msri08.pdf>

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74. Invited panelist, 2007 Post Election Audit Summit, Minneapolis, MN, 25–27 October 2007. <https://www.stat.berkeley.edu/~stark/Seminars/peaSummit07.pdf>
73. Urning Voter Confidence, Department of Mathematics, Reed College, Portland, OR, 11 October 2007. <https://www.stat.berkeley.edu/~stark/Seminars/reed07.pdf>
72. Frequentist Methods in Inverse Problems, Sandia CSRI Workshop on Large-Scale Inverse Problems and Quantification of Uncertainty, Santa Fe, NM, 10–12 September 2007. <https://www.stat.berkeley.edu/~stark/Seminars/sandia07.odp>
71. How Statistics Helps, 9th US Congress on Computational Mechanics, San Francisco, CA, 22–26 July 2007. <https://www.stat.berkeley.edu/~stark/Seminars/compMech07.odp>
70. Nonparametrics: nonpareil?, Veterans Administration Hospital, Neuropsychology Brown Bag Lunch, Martinez, CA, 15 May 2007. <https://www.stat.berkeley.edu/~stark/Seminars/ebire-5-15-07.pdf>
69. The Null Hypothesis: Are Earthquakes Predictable?, Assessment schemes for earthquake prediction, Royal Astronomical Society/Joint Association for Geophysics Discussion Meeting 7–8 November 1996, the Geological Society, London
68. Shaking Down Earthquake Predictions, Department of Statistics, University of California, Davis, 25 May 2006 <https://www.stat.berkeley.edu/~stark/Seminars/ucd-5-25-06.pdf>
67. Measuring Resolution in Nonlinear and Constrained Inverse Problems, Workshop on Statistical Inverse Problems, Institute for Mathematical Stochastics, Göttingen, Germany, 23–25 March 2006. http://www.num.math.uni-goettingen.de/gk/?Workshops:Workshop_on_Statist

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66. Resolution in Nonlinear and Constrained Inverse Problems, Workshop on Computational and Mathematical Geoscience, Colorado School of Mines, Golden CO, 15–17 June 2005.
65. Quantifying uncertainty in inverse problems, Summer school: Mathematical Geophysics and Uncertainty in Earth Models, Colorado School of Mines, Golden CO, 14–25 June 2004. <https://www.stat.berkeley.edu/~stark/Seminars/mines04.pdf>
64. Estimating power spectra of galaxy structure: can Statistics help?, Penetrating bars through masks of cosmic dust: the Hubble tuning fork strikes a new note, Pilanesberg National Park, South Africa, 7–12 June 2004. <http://www.stat.berkeley.edu/~stark/Seminars/bars04.ppt>
63. Quantifying uncertainty in inverse problems, Institute for Pure and Applied Mathematics (IPAM) Conference on Statistical Methods for Inverse Problems, IPAM, Los Angeles, CA, 5–6 November 2003. <http://www.stat.berkeley.edu/~stark/Seminars/ipam03.ppt>
62. Using what we know: inference with physical constraints, PhyStat 2003: Statistical Problems in Particle Physics, Astrophysics and Cosmology, Stanford Linear Accelerator Center, Stanford, CA, 8–10 September 2003. <https://www.stat.berkeley.edu/~stark/Seminars/phyStat03.pdf>
61. Statistical Approaches to Inverse Problems. Danish Interdisciplinary Inversion Group Seminars on Inverse Problems: Insight and Algorithms. Niels Bohr Institute, Copenhagen University, Copenhagen, Denmark, 27–29 May 2002. <https://www.stat.berkeley.edu/~stark/Seminars/bohr02.ppt>

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60. Statistical Measures of Uncertainty in Inverse Problems. Institute for Mathematics and its Applications Tutorial on Inverse Problems and the Quantification of Uncertainty, Annual Program Mathematics in the Geosciences, Minneapolis, MN, 19 March 2002. <https://www.stat.berkeley.edu/~stark/Seminars/ima02.ppt>
59. Data Errors, Model Errors, and Estimation Errors, Frontiers of Geophysical Inversion Workshop, Waterways Experiment Station, U.S. Army Corps of Engineers Engineer Research and Development Center, Vicksburg, MS, 17–19 February 2002. <https://www.stat.berkeley.edu/~stark/Seminars/wes02.ppt>
58. Strategic Planning and Implementation I: The Challenge of Adapting Organizations and Creating Partnerships to Target New Markets, University Teaching as E-business?, Center for Studies in Higher Education, Berkeley, CA, 26–27 October 2001.
57. Inverse Problems and Data Errors, New Developments in Astrophysical Fluid Dynamics, Chateau de Mons, Caussens, France, 25–29 June 2001.
56. Data Reduction and Inverse Problems in Helioseismology, Workshop Statistics of inverse problems, Institut Henri Poincaré, Paris, France, 28–29 May 2001.
55. Why Statistics is worth the Stigma, Letters and Sciences Faculty Forum, University of California, Berkeley, CA, 23 April 2001. <https://www.stat.berkeley.edu/~stark/Seminars/stigma01.ppt>
54. Inverse Problems in Helioseismology, Second MaPhySto Workshop on Inverse Problems: Inverse problems from a Statistical Perspective, Aalborg, Denmark, 28–31 March 2001.

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53. What are the Chances?, NATO Advanced Research Workshop: State of scientific knowledge regarding earthquake occurrence and implications for public policy, Le Dune, Piscinas — Arbus, Sardinia, Italy, 15–19 October 2000.
52. Why Unadjusted Census Results should be Used for Reapportionment and Funding within the State of California, 13th Annual Demographic Workshop, U.S. Bureau of the Census, California State Census Data Center, and the Population Research Laboratory of the University of Southern California, Los Angeles, CA, 15 May 2000.
51. Invited discussant, Workshop of the National Academy of Sciences Panel to Review the 2000 Census, Washington, D.C., 2–3 February 2000.
50. Invited discussant, Panel discussion on the role of sampling in the US Census, San Francisco Bay Area Chapter of the American Statistical Association, 20 December 1999.
49. Lecturer, Mathematical Geophysics Summer School, Stanford University, Stanford, CA, 2–20 August 1999.
48. Less Asymptotic Tomography. 9th SOHO Workshop: Helioseismic Diagnostics of Solar Convection and Activity, Stanford University, Stanford, CA, 12–15 July 1999.
47. Invited panelist, Reinventing Undergraduate Education: Technology Enhanced Learning in the Sciences, Math, and Engineering, University of California, Berkeley, CA, 23 April 1999.
46. Error in Numerical Models Fitted to Data. DSRC/DARPA Study on Numerical Simulation of Physical Systems: The State of the Art, and Opportunities for Further Advances, Kick-Off Meeting, Arlington, VA,

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19–20 January 1999. <https://www.stat.berkeley.edu/~stark/Seminars/dsrc99.htm>

45. Sampling to Adjust the U.S. Census. Miller Institute for Basic Research in Science, University of California, Berkeley, CA, 12 January 1999. <https://www.stat.berkeley.edu/~stark/Seminars/mibrs99.htm>
44. A Statistician’s Perspective on Census Adjustment, Berkeley Breakfast Club, Berkeley, CA, 5 December 1998. <https://www.stat.berkeley.edu/~stark/Seminars/bbc98.htm>
43. SticiGui: Melts in your Browser, not in your Brain, Joint Berkeley-Stanford Statistics Colloquium, Department of Statistics, Stanford University, Stanford, CA, 27 October 1998. <https://www.stat.berkeley.edu/~stark/Seminars/bsc98.htm>
42. SticiGui: Statistics Tools for Internet and Classroom Instruction with a Graphical User Interface, 1998 Joint Statistical Meetings of the American Statistical Association, International Biometric Society, and Institute of Mathematical Statistics, Orlando, FL, 12 August 1998.
41. Presidential Panel on Statistics in Public Policy, 1998 Joint Statistical Meetings of the American Statistical Association, International Biometric Society, and Institute of Mathematical Statistics, Orlando, FL, 10 August 1998.
40. Misfit Measures and Statistical Inconsistency in Linear Inverse Problems. AMS/IMS/SIAM Joint Summer Research Conferences in the Mathematical Sciences, Mathematical Methods in Inverse Problems for Partial Differential Equations, Mt. Holyoke, MA, 4–9 July 1998. <https://www.stat.berkeley.edu/~stark/Seminars/ams-ims-siam-98.pdf>

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39. Uncertainties for functions from incomplete, erroneous data. NSF/DOE Workshop on Uncertainty in Modeling, National Science Foundation, Arlington, VA, 11–12 June 1998. <https://www.stat.berkeley.edu/~stark/Seminars/nsf-doe-98.htm>
38. Sampling to adjust the 1990 Census for Undercount. U.S. House of Representatives Subcommittee on the Census, May 1998. <https://www.stat.berkeley.edu/~stark/Census/house-5-5-98-pbs.pdf>
37. Sounding the Sun: Helioseismology. 1998 American Association for the Advancement of Science (AAAS) Annual Meeting and Science Innovation Exposition, Philadelphia, PA., February 1998. <https://www.stat.berkeley.edu/~stark/Seminars/Aaas/helio.htm>
36. Data Sampling Rate Reduction for the OERSTED geomagnetic Satellite, Department of Geological Sciences, Stanford University, Stanford, CA, 28 July 1997. <https://www.stat.berkeley.edu/~stark/Preprints/Oersted/writeup.htm>
35. Does God play dice with the Earth, and if so, are they loaded? Fourth SIAM Conference on Mathematical and Computational Methods in the Geosciences, Albuquerque, NM, 16 June 1997. <https://www.stat.berkeley.edu/~stark/Seminars/doesgod.htm>
34. Solving Problems for a Large Statistics Lecture Course using a Website UC Berkeley Academic Senate Workshop on Classroom Technology, Berkeley, CA, 11 April 1997. <https://www.stat.berkeley.edu/~stark/Seminars/itpTalk.htm>
33. Deficiencies of the simple theories, Local Helioseismology Workshop, University of Cambridge, Cambridge, England, 1997.

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32. CMB's, Royal Astronomical Society Ordinary Meeting, London, England, 1996.
31. The Null Hypothesis, Royal Astronomical Society and Joint Associations for Geophysics discussion meeting on Assessment of Schemes for Earthquake Prediction, London, England, 1996.
30. On the consistency of multiple inference in inverse problems using l_p confidence sets, International Conference on Multiple Comparisons, Tel Aviv, Israel, 1996.
29. Confidence Intervals in Inverse Problems, Conference in Honor of George Backus, Institute for Geophysics and Planetary Physics, La Jolla, CA, 1995.
28. The Need for Wave-Equation Travel-Time Tomography, Institute for Mathematics and Its Applications, Conference on Tomography, Minneapolis, MN, 1995.
27. Inference, Prior Information, and Misfit Measures, Interdisciplinary Inversion Conference on Methodology, Computation and Integrated Applications, University of Aarhus, Aarhus, Denmark, 1995.
26. Optimization and Inference in Travel-Time Seismology, National Research Council Board on Mathematical Sciences Symposium on Mathematical Sciences in Seismology, Washington, DC, 1995.
25. Prior Information and Confidence Intervals in Inverse Problems, International Union of Geodesy and Geophysics Meeting, Boulder, CO, 1995.

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24. Something AGAINST Nothing: A Confidence Game, Joint Statistical Meetings of the American Statistical Association, International Biometric Society, and Institute of Mathematical Statistics, Orlando, FL, 1995.
23. Uncertainties in Travel-Time Seismology, SIAM/GAMM Symposium on Inverse Problems: Geophysical Applications, Fish Camp, CA, 1995.
22. Toward Tubular Tomography, 27th General Assembly of the Int. Assoc. of Seismology and Phys. of the Earth's Inter. (IASPEI), Wellington, New Zealand, 1994.
21. Alternative Data Analysis Techniques, Global Oscillation Network Group annual meeting, Los Angeles, CA, (presented by C. Genovese due to illness), 1994.
20. Mathematical Aspects of Integral Equation Inversion, Global Oscillation Network Group workshop, Sydney, Australia, 1994.
19. Conservative Finite-Sample Confidence Envelopes for Monotone and Unimodal Densities, Mathematisches Forschungsinstitut Oberwolfach meeting on Curves, Images and Massive Computation, Oberwolfach, Germany, 1993.
18. Invited discussant, Joint IMS/ASA/ENAR Meeting, Philadelphia, PA, 1993.
17. Uncertainty of the Quadrupole Component of the Cosmic Microwave Background, Israel Statistical Association Annual Meeting, Tel Aviv, 1993.

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16. Brute-Force Minimax Estimation in Geochemistry, Joint Statistical Meetings of the American Statistical Association, International Biometric Society, and Institute of Mathematical Statistics, San Francisco, CA, 1993.
15. Conservative Numerical Uncertainty Estimates in Inverse Problems, SIAM 40th Anniversary Meeting, Los Angeles, CA, 1992.
14. Minimax Estimation in Geomagnetism, European Geophysical Society Annual Meeting, Wiesbaden, Germany, 1991.
13. Minimax Estimation in Geophysical Inverse Problems: Applications to Seismic Tomography and Geomagnetism, Schmitt Institute for Physics of the Earth, Academy of Sciences of the USSR, Moscow, 1991.
12. Imagining Earth's Interior: Controversies in Seismology and Geomagnetism, Mathematical Sciences Research Institute Workshop on Statistical Methods in Imaging, Berkeley, CA, 1991.
11. Discretization and its Discontents: New Methods in Inverse Theory, Institute for Theoretical Physics program Helioseismology—Probing the Interior of a Star, National Science Foundation Institute for Theoretical Physics, University of California, Santa Barbara, 1990.
10. Inference in Infinite-Dimensional Inverse Problems, Schmitt Institute for Physics of the Earth, Academy of Sciences of the USSR, Moscow, 1990.
9. Inference in Infinite-Dimensions: Discretization and Duality, Israel Statistical Association Annual Meeting, Jerusalem, 1990.

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8. Superresolution: What, When and How?, Institute for Theoretical Physics program Helioseismology—Probing the Interior of a Star, National Science Foundation Institute for Theoretical Physics, University of California, Santa Barbara, 1990.
7. Sparsity-Constrained Deconvolution, International Union of Radio Science Meeting, Boulder, CO, 1989.
6. Invited discussant, Statistics, Earth and Space Sciences Meeting of the Bernoulli Society, Leuven, Belgium, 1989.
5. Rigorous Computer Solutions to Infinite-Dimensional Inverse Problems, rcp 264 problemes inverses, Montpellier, France, 1989.
4. Duality and Discretization Error, Conference on Mathematical Geophysics, Blanes, Spain, 1988.
3. Spectral extrapolation with positivity, International Union of Radio Science Meeting, Boulder, CO, 1987.
2. Travel-Time Constraints on Core Structure, Special Session on Geophysics of the Core and Core-Mantle Boundary, American Geophysical Union Spring Meeting, Baltimore, MD, 1986.
1. Smooth Models from $\tau(p)$ and $X(p)$ Data, Scripps Industrial Associates Short Course on Inverse Theory, Scripps Institution of Oceanography, La Jolla, CA, 1986.

Other Invited Seminars

California State University, Chico (Mathematics 1993)

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Colorado School of Mines (Mathematical and Computer Sciences 1997)

Copenhagen University (Niels Bohr Institute for Astronomy, Physics, and Geophysics 1996)

Hebrew University of Jerusalem (Statistics 1993)

IT University of Copenhagen (2013, 2014, 2016)

Kansas State University (Statistics 2008)

Pennsylvania State University (Statistics 1010)

National Solar Observatory (1997)

Naval Postgraduate School (Operations Research, 2001)

Reed College (Mathematics, 2007, 2008, 2011)

Rice University (Statistics, 2010)

Schlumberger-Doll Research (1988, 1990, 1991, 1992)

Southern Methodist University (Statistical Sciences, 1998)

Stanford University (Center for Space Physics and Astrophysics 1992; Mathematics 1997; Geology and Geophysics 1993, 1997; Statistics 1988, 1993, 1995, 2011)

The Technion (Statistics 1987)

Tel Aviv University (Geology and Geophysics 1988, 1991; Statistics 1991, 2010)

University of Bologna (Physics and Astronomy, 2013)

University of British Columbia (Geophysics and Astronomy 1996)

University of California, Berkeley (Astronomy 1996; Center for Pure and Applied Mathematics 1988; Geology and Geophysics 1988; Materials Science and Mineral Engineering 1988; Physics, 2001; Seismographic Stations, 1991, 1992, 1996; Statistics 1987, 1988(2), 1989(2), 1990, 1991, 1992, 1994, 1996(2), 1997, 2006, 2009, 2011)

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University of California, Davis (Statistics 1995, 2006; Mathematics 2000)

University of California, Los Angeles (Mathematics 1992; Statistics 2000, 2008, 2013)

University of California, Riverside (Earth Sciences 1996; Statistics 1996)

University of California, San Diego (Institute for Geophysics and Planetary Physics 1985, 1986, 1987, 1988(2), 1990, 1998, 2005; Mathematics 1994)

University of Cambridge (Institute for Astronomy 1992, 1997)

University of Chicago (Statistics 1990)

University of Edinburgh (Earth Sciences, 1998)

University of Luxembourg (Interdisciplinary Centre for Security, Reliability and Trust 2012)

University of Paris, Institute de Physique du Globe de Paris (2011)

University of Pennsylvania (Wharton Statistics Department, 2011)

University of Texas at Austin (Geological Sciences 1988; Mathematics 1990, 1991; Institute for Geophysics 1990)

Veterans Affairs Northern California Health Care System, Martinez, CA (East Bay Institute for Research and Education, 2007)

Yale University (Geology and Geophysics 1988; Statistics 1988)

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4. *The Fred Ebert Show* program on probability and statistics. KIRO 710, Seattle, WA, 27 October 2003. (live appearance re the Monty Hall problem, Statistics, Probability)
3. *ABC 7 News* story on census adjustment, 30 November 1998. (recorded appearance re census)
2. KQED-FM Forum program on the 2000 Census, San Francisco, CA, 17 July 1998. (live appearance re census) <http://www.kqed.org/radio/programs/forum/>
1. How deep is an earthquake? *Science News*, 2 March 1985. (Deep earthquakes)

Teaching and Advising

Courses

BerkeleyX 2.1x* <https://www.edx.org/course/uc-berkeleyx/uc-berkeleyx-stat2-1x-introduction-594>, an Introductory Statistics MOOC (52,661 students enrolled in first offering; 15.5% completion rate. As of 21 October 2015, this was one of the 50 most popular MOOCs of all time)

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BerkeleyX 2.2x* <https://www.edx.org/course/uc-berkeleyx/uc-berkeleyx-stat2-2x-introduction-685>, an Introductory Statistics MOOC (20,871 students enrolled in first offering; 17% completion rate)

BerkeleyX 2.3x* <https://www.edx.org/course/uc-berkeleyx/uc-berkeleyx-stat2-3x-introduction-825>, an Introductory Statistics MOOC (22,443 students enrolled in first offering; 12% completion rate)

Introduction to Statistics (Statistics 2)

Introduction to Probability and Statistics (Statistics 20)

Introductory Probability and Statistics for Business (Statistics 21, N21*, W21*)

Introduction to Probability and Statistics for Scientists and Engineers (Statistics 25)

Societal Risks and the Law* (Statistics C79)

Freshman Seminar on Statistics (Statistics 39)

Statistical Inferences for Social and Life Scientists (Statistics 131A)

Concepts of Probability (Statistics 134)

Concepts of Statistics (Statistics 135)

Linear Modeling: Theory and Applications (Statistics 151A)

Nonparametric Inference and Sensitivity Auditing with Applications to Social Good* (Statistics 157)

Reproducible and Collaborative Statistical Data Science* (Statistics 157, now 159/259). Video review: <http://youtu.be/Bq71Pqdukeo>

Probability and Statistics for Physical Science and Engineering PhD Students*

Statistics for Engineering PhD students*

Introduction to Probability and Statistics at an Advanced Level (Statistics 200A)

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Theoretical Statistics (Statistics 210B)

Statistical Models: Theory and Applications (Statistics 215A, Statistics 215B)

Not enough Statistics for Journalists* (Journalism 219)

Statistics Masters Program Capstone* (Statistics 222)

Nonparametric and Robust Methods (Statistics 240)

Topics in Probability and Statistics (Statistics 260)

Statistical Consulting (Statistics 272)

* Course I created or co-created.

Former Graduate Students and Postdocs

Imola K. Fodor, Roche

Johann Gagnon-Bartsch, University of California, Berkeley

Christopher R. Genovese, Carnegie Mellon University

Niklaus W. Hengartner, Los Alamos National Laboratory

Janne Huttunen, University of Auckland and University of Kuopio

Bradley Luen, Indiana University

Tian Luo, U.S. Bureau of Labor Statistics

Dmitry I. Nikolayev, Schmidt Institute for Physics of the Earth

R. Jay Pulliam, University of Texas at Austin

Karthik Ram, University of California, Berkeley

Jeffery Regier, University of California, Berkeley

Chad M. Schafer, Carnegie Mellon University

Daniel Turek, University of California, Berkeley

Vincent S. Yates, Yammer

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Graduate Committees

1. Alameida, Jose, Mathematics. Ph.D. qualifying examination, 2008
2. Atz, Milos, Nuclear Engineering. Ph.D. qualifying examination, 2018
3. Bach, Andre, Physics. Ph.D. qualifying examination, 2011
4. Bar-Yossef, Ziv, Computer Science. Ph.D. qualifying examination, 2001; dissertation committee, “The Complexity of Massive Data Set Computations,” 2002
5. Bein, Ed, Biostatistics. MA examination, 2002
6. Berny, Axel Dominique, EECS. Ph.D. qualifying examination, 2004; dissertation committee, “Analysis and Design of Wideband LC VCOs,” 2006
7. Bertelli, E., IEOR. Ph.D. qualifying examination, 2018
8. Bloniarz, Adam, Statistics. Ph.D. qualifying examination, 2014
9. Bodik, Peter, Computer Science. Ph.D. qualifying examination, 2007; dissertation committee, “Automating Datacenter Operations Using Machine Learning,” 2010
10. Bowman, John Penfield, IEOR. Ph.D. qualifying examination, 2003
11. Bunn, Emory Freeman, Physics. Ph.D. qualifying examination, 1994; dissertation committee, “Statistical Analysis of Cosmic Microwave Background Anisotropy,” 1995
12. Burleigh, Kaylan, Astronomy. Ph.D. qualifying examination, 2016, 2017; dissertation committee, “A Monte Carlo Method for Identifying Imaging Systematics in Galaxy Surveys,” 2018
13. Burstein, Richard David II, Mathematics. Ph.D. qualifying examination, 2004; dissertation committee, “Hadamard Subfactors of Bisch-Haagerup Type,” 2008
14. Buttrey, Samuel Edward, Statistics. Ph.D. qualifying examination, 1994; dissertation committee, “Nearest-Neighbor Classification with Categorical Variables,” 1996

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15. Calef, Brandoch Hugh, Applied Mathematics. Ph.D. qualifying examination, 1997; dissertation committee, "Optimal Sampling of the Discrete Fourier Transform," 2002
16. Charman, Andrew Emile, Physics. Ph.D. qualifying examination, 2003; dissertation committee, "Random Aspects of Beam Physics and Laser-Plasma Interactions," 2006
17. Chen, Raymond Lei, EECS. Ph.D. qualifying examination, 1993; dissertation committee, "A Qualitative Modeling Framework of Semiconductor Manufacturing Processes: Self-Learning Fuzzy Inference System and the Statistical Analysis of Categorical Data," 1994
18. Chien, George, EECS. Ph.D. qualifying examination, 1998
19. Fernandez, Arturo, Statistics. Ph.D. qualifying examination, 2017
20. Feldman, Arnold R., EECS. Ph.D. qualifying examination, 1995; dissertation committee, "High-Speed, Low-Power Sigma-Delta Modulators for RF Baseband Channel Applications," 1997
21. Fodor, Imola K., Statistics. Ph.D. qualifying examination, 1997; chair, dissertation committee, "Spectrum Estimation in Helioseismology," 1999
22. Fong, Keng Leong, EECS. Ph.D. qualifying examination, 1996; dissertation committee, "Design and Optimization Techniques for Monolithic RF Downconversion Mixers," 1997
23. Gagnon-Bartsch, Johann, Statistics. Ph.D. qualifying examination, 2009; co-chair, dissertation committee "Removing Unwanted Variation from Microarray Data with Negative Controls," 2012
24. Gawiser, Eric Joseph, Physics. Ph.D. qualifying examination, 1998
25. Genovese, Christopher Ralph, Statistics. Ph.D. qualifying examination, 1992; chair, dissertation committee, "Statistical Problems in Helioseismology," 1994
26. Goldman, Megan, Biostatistics. Chair, Ph.D. qualifying examination, 2009

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September 4, 2018

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27. Gung, Yuan-Cheng, Geophysics. Dissertation committee, “Q Tomography of the Earth Mantle,” 2003
28. Hansen, Bendek, Statistics. Chair, MA thesis committee, “Minimax Expected Length Confidence Intervals,” 2000
29. Hansen, Mark Henry, Statistics. Chair, Ph.D. qualifying examination, 1992
30. Hengartner, Niklaus Walther, Statistics. Co-chair, dissertation committee, “Topics in Density Estimation,” 1993
31. Higgins, Mike, Statistics. Ph.D. qualifying examination, 2009, 2010
32. Huang, Hsiang-Ping, Mathematics. Ph.D. qualifying examination, 1996
33. Huang, Jianhua, Statistics. Ph.D. qualifying examination, 1994; dissertation committee, “Topics in Extended Linear Modeling,” 1997
34. Huang, Yuanlin, Civil Engineering. Ph.D. qualifying examination, 1993, 1994
35. Jiang, Xuesong, EECS. Ph.D. qualifying examination, 2001
36. Jones, David Morgan, Mathematics. Ph.D. qualifying examination, 1994; dissertation committee, “On Modular Galois Representations in Characteristic 3,” 1998
37. Katsis, Dimitrios, EECS. Ph.D. qualifying examination, 2005
38. Kiesling, Max Karl, Civil Engineering. Ph.D. qualifying examination, 1994
39. Kuusela, Mikael Johan, Statistics, École Polytechnique Fédérale de Lausanne, dissertation committee, “Uncertainty quantification in unfolding elementary particle spectra at the Large Hadron Collider,” 2016
40. Li, Bo, Statistics. Ph.D. qualifying examination, 2004
41. Li, Wenyu, Mechanical Engineering. Ph.D. qualifying examination, 2017

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42. Loscutoff, Peter, Physics. Ph.D. qualifying examination, 2011; dissertation committee, “Search for resonant $WZ \rightarrow \ell\nu\ell\ell$ production using $13fb^{21}$ in $\sqrt{s} = 8TeV$ pp collisions with the ATLAS detector,” 2013
43. Luen, Bradley, Statistics. Ph.D. qualifying examination, 2006; Chair, dissertation committee, “Earthquake Prediction: Simple Methods for Complex Phenomena,” 2010
44. Luo, Tian, Statistics. MA thesis chair, “Nonparametric estimation of business survival with an application to restaurant startups,” 2014
45. Madar, Vered, Statistics and Operations Research, Tel Aviv University. MA thesis committee, “Non-equivariant confidence intervals,” 2002; Ph.D. committee, “Simultaneous Confidence Intervals for Multiple Parameters with More Power to Determine the Sign,” 2007
46. Megnin, Charles Henri, Geophysics. Ph.D. qualifying examination, 1996; dissertation committee, “The Shear Velocity Structure of the Mantle from the Inversion of Time-Domain Waveform Data,” 1999
47. Mieler, Michael William, Civil Engineering. Ph.D. qualifying examination, 2011
48. Millman, Kenneth Jarrod, Biostatistics. MA thesis committee, “permute—a Python package for permutation tests and confidence sets,” 2015
49. Miratrix, Luke W., Statistics. Chair, Ph.D. qualifying examination, 2010
50. Mohanty, Sudatta, Civil Engineering. Ph.D. qualifying examination, 2017
51. Murmann, Boris, EECS. Ph.D. qualifying examination, 2002; dissertation committee, “Digital Calibration for Low-Power High-Performance A/D Conversion,” 2003
52. Oreluk, James, Mechanical Engineering. Ph.D. qualifying examination, 2017
53. Ottoboni, Kellie, Statistics. Ph.D. qualifying examination, 2017

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54. Ou, Jeffrey Jiajiunn, EECS. Ph.D. qualifying examination, 1995
55. Petkov, Vladimir Plamenov, EECS. Ph.D. qualifying examination, 2003
56. Poobuapheun, Nuntachai, EECS. Ph.D. qualifying examination, 2005; dissertation committee, “LNA and Mixer Designs for Multi-Band Receiver Front-Ends,” 2009
57. Puente, Suzette, Statistics. M.A. committee, 2013
58. Pulliam, R. Jay, Geophysics. Ph.D. dissertation committee, “Imaging Earth’s Interior: Tomographic Inversion of Mantle P-Wave Velocity Structure,” 1991
59. Qian, Kun, EECS. Ph.D. qualifying examination, 2009; dissertation committee, “Variability Modeling and Statistical Parameter Extraction for CMOS Devices,” 2015
60. Regier, Jeffery, Statistics. Chair, M.A. committee, 2013; dissertation committee, “Topics in large-scale statistical inference,” 2016
61. Rein, Steven Richard, Statistics. Chair, Ph.D. qualifying examination, 1990
62. Rossi, Jim, Journalism. M.A. thesis committee, “Reverse-engineering the Echo Chamber,” 2017
63. Schafer, Chad Michael, Statistics. Ph.D. qualifying examination, 2001; chair, dissertation committee, “Constructing Confidence Regions of Optimal Expected Size: Theory and Application to Cosmic Microwave Inference,” 2004
64. Son, Sang Won, EECS. Ph.D. qualifying examination, 2000; dissertation committee, “High Dynamic Range CMOS Mixer Design,” 2002
65. Stern, Aaron James, Computational Biology. Ph.D. qualifying examination, 2017.
66. Suzuki, Toru, Demography. Ph.D. qualifying examination, 1995; dissertation committee, “Projection of Households in Japan with a Dynamic Macro-Simulation Model,” 1999

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67. Tee, Luns, EECS. Ph.D. qualifying examination, 2001
68. Tenorio, Luis-Francisco, Mathematics. Ph.D. dissertation committee, “Asymptotic Dynamics of Locally Oblique Solitary Wave Solutions of the KP Equation,” 1992
69. Thompson, Neil, Statistics. M.A. committee, 2012
70. To, Albert Chi Fu, Statistics. M.A. committee, 2005
71. Wagner, Tim Allen, CS. Ph.D. qualifying examination, 1995; dissertation committee, “Practical Algorithms for Incremental Software Development Environments,” 1997
72. Wang, Jason, Astronomy. Ph.D. qualifying examination, 2017; dissertation committee, “Footage of Other Worlds: Unveiling the Dynamical Architecture of Young Exoplanetary Systems,” 2018
73. Wicks, Charles Wesley Jr., Geophysics. Ph.D. qualifying examination, 1990; dissertation committee, “An Investigation of Mantle Discontinuities Beneath the Southwest Pacific,” 1994
74. Wilhelm, Matthieu., Universit de Neuchtel, Statistics. Ph.D. dissertation committee, “Random sampling with repulsion,” 2017
75. Yao, Shijing, EECS. Ph.D. qualifying examination, 2015
76. Yates, Vincent, Statistics. Chair, M.A. committee, 2012
77. Ying, Jun, Naval Architecture. D. Eng. qualifying examination, 1995; dissertation committee, “Development and Verification of Computer Simulation Models for Evaluation of Siting Strategies and Evacuation Procedures for Mobile Drilling Units in Hurricanes,” 1996
78. Zhang, Xiaoyan, Statistics. Ph.D. qualifying examination, 1997
79. Zagheni, Emilio, Demography. Ph.D. qualifying examination, 2008
80. Zamora, Joel Barajas, UC Santa Cruz, EE. Ph.D. dissertation defense, 2015; dissertation committee, “Online Display Advertising Causal Attribution and Evaluation,” 2015

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First-year PhD advising

2014–15 Thanh-Nhan (Andrew) Do

2014–15 Kellie Ottoboni

2016–17 Jake Soloff

Current PhD advisees

2014– Kellie Ottoboni

Undergraduate Research and Honors Thesis Advisees

2018 William Ma

2018 Jin Kweon

2015 Fang Cai

2015 Catherine Darin, U. Pennsylvania

2014 He Ma

2014 Rachel Redberg

2014 Hriday Kemburu

2010–2011 Katherine McLaughlin

2010 Aaron Taylor

2010 Hua Yang

2009 Joshua M. Levin

2008 Jonathan Ong

2007 Gerold Ng

2003–2004 Feng Tang

1993–1996 Dendy Harjanto

1988–1993 10 others

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Service

Professional Societies and Government Agencies

- 2018
- Advisory Board, U.S. Election Assistance Commission
 - Consultant, Colorado Secretary of State
 - Reviewer, National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs Division
 - Editorial Board, *ScienceOpen*
 - Chair for Auditability, IEEE/NIST Voting System Standards Committee (VSSC) Working Group For Voting Methods Mathematical Models (C/VSSC/1622.X_WG)
 - Program committee, 2018 Workshop on Advances in Secure Electronic Voting Schemes (VOTING'18, held in conjunction with the 2018 Conference on Financial Cryptography and Data Security, FC'18)
 - Referee, *Geophysical Research Letters*
 - Referee, *Proceedings of the National Academy of Sciences*
- 2017
- Advisory Board, U.S. Election Assistance Commission
 - Consultant, Colorado Secretary of State
 - Travis County Texas Elections Division STAR-Vote System Brain Trust
 - Founding Steering Committee and Editorial Board, USENIX Journal of Voting Technology
 - Editorial Board, *ScienceOpen*
 - Chair for Auditability, IEEE/NIST Voting System Standards Committee (VSSC) Working Group For Voting Methods Mathematical Models (C/VSSC/1622.X_WG)
 - Program committee, 2018 Workshop on Advances in Secure Electronic Voting Schemes (VOTING'18, held in conjunction with the 2018 Conference on Financial Cryptography and Data Security, FC'18)

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- Program committee, 2017 Workshop on Advances in Secure Electronic Voting Schemes (VOTING’17, held in conjunction with the 2017 Conference on Financial Cryptography and Data Security, FC’17)
 - Chair, Mini-symposium on Open Data and Reproducibility, *2017 International Scientific Computing with Python (SciPy) Conference*, Austin, TX.
 - Referee, *Proceedings of the National Academy of Sciences*
- 2016
- Advisory Board, U.S. Election Assistance Commission
 - Consultant, Colorado Secretary of State
 - Travis County Texas Elections Division STAR-Vote System Brain Trust
 - Founding Steering Committee and Editorial Board, USENIX Journal of Voting Technology
 - Associate editor, SIAM/ASA Journal of Uncertainty Quantification
 - Editorial Board, *ScienceOpen*
 - Chair for Auditability, IEEE/NIST Voting System Standards Committee (VSSC) Working Group For Voting Methods Mathematical Models (C/VSSC/1622.X_WG)
 - Program committee, 2016 Workshop on Advances in Secure Electronic Voting Schemes (VOTING’16, held in conjunction with the 2016 Conference on Financial Cryptography and Data Security, FC’16)
 - Program committee, 2017 Workshop on Advances in Secure Electronic Voting Schemes (VOTING’17, held in conjunction with the 2017 Conference on Financial Cryptography and Data Security, FC’17)
 - Program committee, 12th International Joint Conference on Electronic Voting (E-Vote-ID 2016), Bregenz, Austria
 - Session co-organizer, “Productive Ecologies in the Anthropocene: Foraging Systems,” Sixth International Conference on Food Studies, Berkeley, CA

P.B. Stark: CV

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- 2015
- Consultant, Colorado Secretary of State
 - Travis County Texas Elections Division STAR-Vote System Brain Trust
 - Founding Steering Committee and Editorial Board, USENIX Journal of Voting Technology
 - Associate editor, SIAM/ASA Journal of Uncertainty Quantification
 - Editorial Board, *ScienceOpen*
 - Chair for Auditability, IEEE/NIST Voting System Standards Committee (VSSC) Working Group For Voting Methods Mathematical Models (C/VSSC/1622.X-WG)
 - Program committee, VoteID 2015: The 5th International Conference on e-Voting and Identity, Bern, Switzerland. <http://www.voteid15.org/>
 - Program committee, 2015 European Symposium on Research in Computer Security (ESORICS 2015), Vienna, Austria. <http://esorics2015.sba-research.org/>
 - Program committee, 2016 Workshop on Advances in Secure Electronic Voting Schemes (VOTING'16, held in conjunction with the 2016 Conference on Financial Cryptography and Data Security, FC'16)
 - Session organizer, Teaching Computational Thinking and Practice, 2015 SIAM Conference on Computational Science and Engineering (CSE15)
 - Organizer, Berkeley Institute for Data Sciences and Moore/Sloan Data Science Environments 2015 Conference on Reproducibility
 - Referee, PeerJ
- 2014
- Consultant, Colorado Secretary of State
 - Travis County Texas Elections Division STAR-Vote System Brain Trust
 - Founding Steering Committee and Editorial Board, USENIX Journal of Election Technology and Systems (JETS)

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- Associate editor, SIAM/ASA Journal of Uncertainty Quantification
 - Editorial Board, *ScienceOpen*
 - Member, IEEE/NIST Voting System Standards Committee (VSSC) Working Group For Voting Methods Mathematical Models (C/VSSC/1622.X_WG)
 - Organizing committee co-chair, 2014 SIAM/ASA Conference on Uncertainty Quantification, Savannah, GA
 - Program committee, VoteID 2015: The 5th International Conference on e-Voting and Identity, Bern, Switzerland. <http://www.voteid15.org/>
 - Program committee, 2015 European Symposium on Research in Computer Security (ESORICS 2015), Vienna, Austria. <http://esorics2015.sba-research.org/>
 - Session organizer, late-breaking session on Reproducibility, 2014 Joint Statistical Meetings, Boston, MA
 - Session organizer and chair, 2014 Conference of the International Society for Nonparametric Statistics, Cadiz, Spain
 - Session organizer, Teaching Computational Thinking and Practice, 2015 SIAM Conference on Computational Science and Engineering (CSE15)
 - Referee, PLoS One
- 2013
- Consultant, California Secretary of State
 - Consultant, Colorado Secretary of State
 - Consultant, U.S. Department of Justice, Civil Division
 - Travis County Texas Elections Division STAR-Vote System Brain Trust
 - Founding Steering Committee and Editorial Board, USENIX Journal of Election Technology and Systems (JETS)
 - Associate editor, SIAM/ASA Journal of Uncertainty Quantification
 - Organizing committee co-chair, 2014 SIAM/ASA Conference on Uncertainty Quantification, Savannah, GA

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- Session organizer, Conference of the International Society for Non-parametric Statistics, Cadiz, Spain
- 2012
- Consultant, California Secretary of State
 - Consultant, Colorado Secretary of State
 - Consultant, U.S. Department of Justice
 - Travis County Texas Elections Division STAR-Vote System Brain Trust
 - Founding Steering Committee, USENIX Journal of Election Technology and Systems (JETS)
 - Reviewer, National Science Foundation
 - Program committee, 2012 Electronic Voting Technology / Workshop on Transparent Elections (EVT/WOTE '12), USENIX Security Symposium, Bellevue, WA
 - Session organizer, 2012 Joint Statistical Meetings of the American Statistical Association, International Biometric Society, and Institute of Mathematical Statistics, San Diego, CA
 - Session organizer, 1st Conference of the International Society for NonParametric Statistics, Chalkidiki, Greece
 - Organizing committee co-chair, 2014 SIAM/ASA Conference on Uncertainty Quantification, Savannah, GA
 - Program committee, 2012 SIAM/ASA/SAMSI/USACM Conference on Uncertainty Quantification, Raleigh, NC
 - Session organizer, Election Verification Network (EVN) annual conference, Santa Fe, NM
- 2011
- Consultant and Expert Witness, U.S. Department of Justice, Civil Division (for U.S. Department of Housing and Urban Development)
 - Program committee, 2012 SIAM/ASA/SAMSI/USACM Conference on Uncertainty Quantification, Raleigh, NC
 - Consultant, California Secretary of State
 - Consultant, Colorado Secretary of State

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- Session organizer, Election Verification Network (EVN) annual conference, Chicago, IL
- 2010 – Consultant and Expert Witness, U.S. Department of Justice, Civil Division (for Department of Housing and Urban Development)
- Consultant, State of Illinois
- Consultant, California Attorney General (for California Highway Patrol)
- Consultant, New York State Senate
- Reviewer, Department of Defense Strategic Environmental Research and Development Program
- Session organizer, Election Verification Network (EVN) annual conference, Washington, DC
- 2009 – Consultant, California Secretary of State
- 2008 – Consultant, California Secretary of State
- 2007 – California Secretary of State Post-Election Audit Standards Working Group
http://www.sos.ca.gov/elections/elections_peas.htm
- 2006 – Consultant and Expert Witness, U.S. Department of Justice, Civil Division
- 2005 – Consultant, U.S. Department of Justice, Civil Division
- Consultant, U.S. Department of Veterans Affairs Medical Center
- Consultant, Habeas Corpus Resource Center
- 2004 – Reviewer, National Science Foundation
- Consultant, U.S. Department of Justice, Civil Division
- Consultant, U.S. Attorney's Office
- Consultant, U.S. Department of Veterans Affairs Medical Center
- 2003 – Reviewer, National Science Foundation
- Referee, National Sciences and Engineering Research Council of Canada

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- Consultant, U.S. Department of Veterans Affairs Medical Center
- 2002 – Consultant, U.S. Department of Agriculture
- Consultant, U.S. Department of Justice, Civil Division
- 2001 – Consultant, U.S. Department of Justice, Civil Division
- Co-organizer, Institute for Mathematics and Its Applications Annual Program *Mathematics in the Geosciences* and workshop on Inverse Problems and the Quantification of Uncertainty
- 2000 – Invited discussant, National Academy of Science Committee on National Statistics workshop on dual-system estimation for the 2000 Census
- Consultant, U.S. Department of Justice, Civil Division
- 1998 – Witness, U.S. House of Representatives Subcommittee on the Census.
- Panelist, National Science Foundation
- 1997 – Session organizer, International Statistical Institute and Bernoulli Society Meeting, Istanbul, Turkey
- 1996–present – Global Oscillation Network Group (GONG) Data Users Committee (Chair, 1996–1998)
- Reviewer for United States Geological Survey
- 1996–1999 – Consultant, National Security Agency
- 1995 – Institute of Mathematical Statistics Program Chair, Joint Statistical Meetings of the American Statistical Association, International Biometric Society, and Institute of Mathematical Statistics, Orlando, FL
- 1994–1996 – Consultant to Federal Trade Commission
- 1993 – Session organizer and chair, IMS/ASA/ENAR meeting, Philadelphia, PA
- Session organizer and chair, Joint Statistical Meetings of the American Statistical Association, International Biometric Society, and Institute of Mathematical Statistics, San Francisco, CA

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- 1992 – Faculty sponsor, Department of Energy TRAC program
- 1990–1994 – Bernoulli Society Committee on Statistics in the Physical Sciences
- 1991–present – Reviewer for National Aeronautics and Space Administration (Space Physics Division)
- 1991 – Local organizer and session chair, Mathematical Sciences Research Institute Workshop on Statistical Methods in Imaging, Berkeley, CA
- 1989 – Session organizer and chair, Bernoulli Society Satellite Meeting, Leuven, Belgium
- 1989–present – Reviewer for National Science Foundation (Atmospheric Sciences; Infrastructure; International Programs; Mathematical Sciences; Methodology, Measurement, and Statistics; Solar-Terrestrial Program; Statistics and Probability)

Foundations, Non-Profit Corporations, and Industry

- 2013–present – Board of Directors, Verified Voting Foundation
- 2011–2013 – Board of Advisors, Verified Voting Foundation
- 2010–2011 – Technical Advisory Board, Clear Ballot Group
- 2007 – Advisory Board, Facebar, Inc.
- 2000–2001 – Technical Advisory Board, Cogit.com
- 2000–2002 – National Advisory Board, eTextbooksOnline.com
- Technical Advisory Board, Atomic Dog Publishing

P.B. Stark: CV

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Editorial and Referee Service*Editorial Service*

- 2014–present – Faculty Review Board, Berkeley Scientific Journal
- 2013–present – Editorial Board, ScienceOpen
- 2013–present – Associate Editor, SIAM/ASA Journal on Uncertainty Quantification
- 2012–present – Founding Steering Committee and Editorial Board, USENIX Journal of Election Technology and Systems (JETS)
- 2011–present – Editor, Frontiers in Statistics and Probability (Springer)
- 2008 – Guest Editor, Inverse Problems
- 1998–1999 – Editor, Statistical Science
- 1997–2000 – Editorial Board, Inverse Problems
- 1994–1998 – Associate Editor, Journal of Geophysical Research

Referee Service

1. American Association for the Advancement of Science
2. American Mathematical Monthly
3. Annales Geophysicae
4. Annals of the Institute of Statistical Mathematics
5. Annals of Statistics
6. Arabian Journal for Science and Engineering
7. Astrophysical Journal
8. Bulletin of the Seismological Society of America
9. Cambridge University Press

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10. Chapman-Hall
11. Computational Statistics and Data Analysis
12. Electronic Journal of Statistics
13. Geophysical Journal International
14. Geophysical Research Letters
15. Geophysics
16. Geophysical & Astrophysical Fluid Dynamics
17. HarperCollins
18. IEEE Journal on Acoustics, Speech and Signal Processing
19. IEEE Journal on Information Theory
20. Inverse Problems
21. Inverse Problems and Imaging
22. Journal of the American Statistical Association
23. Journal of Computational Physics
24. Journal of Economic Literature
25. Journal of Geophysical Research
26. Jurimetrics
27. Nature
28. Nature Climate Change
29. PeerJ
30. Political Analysis
31. Physics of the Earth and Planetary Interiors
32. PLoS One

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33. Proceedings of the National Academy of Sciences
34. Science
35. SIAM Review
36. Simon and Schuster
37. Springer-Verlag
38. Statistics, Politics, and Policy
39. Statistical Science
40. Tectonophysics

University Service

- 2018–2019
- Associate Dean, Division of Mathematical and Physical Sciences
 - Advisory Board, Berkeley Institute for Data Science (BIDS)
 - Scientific Advisory Board, European Union H2020 Project Moving Towards Adaptive Governance in Complexity: Informing Nexus Security (MAGIC), Universitat Autònoma de Barcelona (Spain) and University of Bergen (Norway)
 - Faculty Advisory Committee, Berkeley Resource Center for Online Education (BRCOE)
 - Faculty Athletic Fellow
 - Program Advisory Committee, Doctor of Business Administration Program, Lincoln University
 - Member, Berkeley Science Network <http://bsn.berkeley.edu>
 - Schmidt Science Fellows Program review committee
- 2017–2018
- Associate Dean, Division of Mathematical and Physical Sciences
 - Chancellor’s Strategic Planning Committee on Enrollment Growth
 - Interdepartmental Committee on the Formation of the Division of Data Sciences

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- Director, Statistical Computing Facility
 - *Ad hoc* Data Sciences Divisional committee on undergraduate degree programs
 - Advisory Board, Berkeley Institute for Data Science (BIDS)
 - Academic Program Review Committee, Academic Senate representative, Department of Agricultural and Resource Economics
 - Scientific Advisory Board, European Union H2020 Project Moving Towards Adaptive Governance in Complexity: Informing Nexus Security (MAGIC), Universitat Autònoma de Barcelona (Spain) and University of Bergen (Norway)
 - Faculty Advisory Committee, Berkeley Resource Center for Online Education (BRCOE)
 - Faculty Advisory Committee, Athletic Study Center
 - Faculty Athletic Fellow
 - Program Advisory Committee, Doctor of Business Administration Program, Lincoln University
 - Member, Berkeley Science Network <http://bsn.berkeley.edu>
- 2016–2017
- Associate Dean, Division of Mathematical and Physical Sciences
 - Director, Statistical Computing Facility
 - Advisory Board, Berkeley Institute for Data Science (BIDS)
 - Scientific Advisory Board, European Union H2020 Project Moving Towards Adaptive Governance in Complexity: Informing Nexus Security (MAGIC), Universitat Autònoma de Barcelona (Spain) and University of Bergen (Norway)
 - Faculty Advisory Committee, Berkeley Resource Center for Online Education (BRCOE)
 - Faculty Advisory Committee, Athletic Study Center
 - Faculty Athletic Fellow
 - Program Advisory Committee, Doctor of Business Administration Program, Lincoln University
 - Member, Berkeley Science Network <http://bsn.berkeley.edu>

*P.B. Stark: CV**September 4, 2018*

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- 2015–2016
- Associate Dean, Division of Mathematical and Physical Sciences
 - Faculty Advisory Committee, Berkeley Resource Center for Online Education (BRCOE)
 - Faculty Advisory Committee, Athletic Study Center
 - Faculty Athletic Fellow
 - Program Advisory Committee, Doctor of Business Administration Program, Lincoln University
 - Member, Berkeley Science Network <http://bsn.berkeley.edu>
- 2014–2015
- Chair, Department of Statistics
 - Director, Statistical Computing Facility
 - Faculty Advisory Committee, Berkeley Resource Center for Online Education (BRCOE)
 - Campus Working Group on Course Curriculum and Design
 - Faculty Advisory Committee, Athletic Study Center
 - Engineering Science Advisory Committee, College of Engineering
 - Faculty Athletic Fellow
 - Program Advisory Committee, Doctor of Business Administration Program, Lincoln University
 - Member, Berkeley Science Network <http://bsn.berkeley.edu>
- 2013–2014
- Chair, Department of Statistics
 - Director, Statistical Computing Facility
 - Commission on the Future of the UC Berkeley Library <http://academic-senate.berkeley.edu/issues/commission-future-uc-berkeley-library>
Charge: <http://evcp.berkeley.edu/sites/default/files/Library%20Commission%2009.21.2012.pdf>
Final Report: <http://evcp.berkeley.edu/news/commission-future-uc-berkeley-library-report>
 - Faculty Advisory Committee, Berkeley Resource Center for Online Education (BRCOE)
 - Campus Working Group on Course Curriculum and Design

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- Faculty Advisory Committee, Athletic Study Center
 - Engineering Science Advisory Committee, College of Engineering
 - Search Committee, Director of IT for College of Letters and Sciences
 - Faculty Athletic Fellow
 - Program Advisory Committee, Doctor of Business Administration Program, Lincoln University
 - External Review Committee, Department of Applied Mathematics and Statistics, Colorado School of Mines
 - Member, Berkeley Science Network <http://bsn.berkeley.edu>
- 2012–2013
- Chair, Department of Statistics
 - Director, Statistical Computing Facility
 - Commission on the Future of the UC Berkeley Library
 - Faculty Advisory Committee, Berkeley Resource Center for Online Education (BRCOE)
 - Engineering Science Advisory Committee, College of Engineering
 - Faculty Athletic Fellow
 - Program Advisory Committee, Doctor of Business Administration Program, Lincoln University
 - Member, Berkeley Science Network <http://bsn.berkeley.edu>
- 2011–2012
- Acting Department Chair, Department of Statistics, July–August
 - Vice Chair, Department of Statistics
 - Academic Senate Alternate Representative to University of California Systemwide Assembly
 - Academic Senate Committee on Academic Planning and Resource Allocation (CAPRA)
 - Campus Committee on Classroom Policy and Management (CC-CPM)
 - Business Resumption Coordination Group (BRCG)
 - Faculty Athletic Fellow

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- Program Advisory Committee, Doctor of Business Administration Program, Lincoln University
- 2010–2011 – Academic Senate Committee on Academic Planning and Resource Allocation (CAPRA)
- Campus Committee on Classroom Policy and Management (CC-CPM)
- Course Note-Taking Taskforce (<http://campuspol.chance.berkeley.edu/policies/coursenotes.pdf>)
- *Ad hoc* tenure/promotion committee
- Faculty Athletic Fellow
- Program Advisory Committee, Doctor of Business Administration Program, Lincoln University
- 2009–2010 – Academic Senate Committee on Computing and Communications (COMP)
- Faculty Athletic Fellow
- 2008–2009 – Faculty Athletic Fellow
- 2007–2008 – Undergraduate Student Learning Initiative Faculty Advisory Committee
- Faculty Athletic Fellow
- 2006–2007 – Faculty Athletic Fellow
- 2005–2006 – Faculty Athletic Fellow
- 2004–2005 – Chair, Educational Technology Committee
- e-Berkeley Steering Committee
- e-Berkeley Committee of Chairs
- e-Berkeley Implementation Task Force
- CourseWeb Steering Committee
- Faculty Athletic Fellow
- 2003–2004 – Chair, Educational Technology Committee

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- e-Berkeley Steering Committee
 - e-Berkeley Implementation Task Force
 - Student Systems Policy Committee
 - CourseWeb Steering Committee
- 2002–2003
- Faculty Assistant in Educational Technology (to Vice Provost for Undergraduate Education)
 - Chair, Educational Technology Committee
 - Provost’s Academic Council
 - e-Berkeley Steering Committee
 - e-Berkeley Implementation Task Force
 - Campus Committee on Classroom Policy and Management (CC-CPM)
 - Student Systems Policy Committee
 - e-Berkeley Symposium Program Committee
 - Faculty Search Committee, Graduate School of Education
 - CourseWeb Steering Committee
- 2001–2002
- Faculty Assistant in Educational Technology (to Vice Provost for Undergraduate Education)
 - Chair, Educational Technology Committee
 - Provost’s Academic Council
 - e-Berkeley Steering Committee
 - e-Berkeley Implementation Task Force
 - Campus Committee on Classroom Policy and Management (CC-CPM)
 - Academic Senate Committee on Academic Planning and Resource Allocation (CAPRA)
 - CITRIS II Program Committee
 - TeleBEARS and BearFacts Committees (combined into Student Systems Policy Committee as of 3/2002)
 - e-Berkeley Portal Working Group

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- Faculty search committee, Graduate School of Education
- 2000–2001
 - Space Allocation and Capital Improvements (SACI)
 - Academic Senate Committee on Academic Planning and Resource Allocation (CAPRA)
 - CAPRA Subcommittee on Expanded Enrollment
 - CAPRA Subcommittee on changes to Academic Coordinator title
 - *Ad hoc* hiring/tenure committee
- 1999–2000
 - Space Allocation and Capital Improvements (SACI)
 - Academic Senate Library Committee (LIBR)
 - Academic Senate Committee on Academic Planning and Resource Allocation (CAPRA), Physical Planning Subcommittee, *ex officio* representative from Library Committee
 - Academic Effects Study Committee, Molecular Engineering Building
 - *Ad hoc* tenure/promotion committee
 - SACI subcommittee to audit space in Barrows Hall
- 1998–1999
 - Space Allocation and Capital Improvements (SACI)
 - Electronic Dissertations Project
 - Planning Space for the Physical Sciences Libraries
- 1997–1998
 - *Ad hoc* tenure/promotion committee
- 1996
 - Review of College of Science, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia
- 1994–1999
 - University review committee for Department of Agricultural and Resource Economics, University of California, Berkeley
- 1993–1995
 - Physical Sciences Division committee for Graduate Affirmative Action and Retention
 - Physical Sciences Division committee for Science and Mathematics Academic Re-Training (SMART)

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Contracts and Grants

1. PI, NASA Grant NAG 5-883, “Constructing Core Fields Consistent with Geomagnetic Data and Geophysical Constraints,” 1987–1990.
2. Project Director and PI, NSF Grant DMS-8810192, “Inference in Curved-Ray Tomography: Solid Earth Structure,” 1989–1992.
3. PI, NSF Grant INT-9205103, “Long and Medium-Term Research: Inference in Seismological Investigations of Subducting Lithosphere,” 1992–1994.
4. PI, NSF Grant DMS-930006P, “Estimating the Sun’s Internal Angular Velocity from Free-Oscillation Frequency Splittings,” 1993–1994.
5. PI, NSF Presidential Young Investigator Award DMS-8957573, 1989–1995.
6. Co-I, NASA Grant NAG5-2438, “The Analysis of Cobe DMR Sky Maps,” 1993–1994. PI: J. Silk
7. PI, NASA Grant NAGW-2515, “New Methods for Inversion and Analysis of Solar Free-Oscillation Data,” 1991–1995.
8. PI, NSF Grant DMS-9404276, “New Methods for Inference From COBE Data,” 1994–1997.
9. PI, NSF Grant AST-9504410, “Function Estimation and Inference in Helioseismology,” 1995–1998.
10. PI, LLNL/IGPP Grant 97-AP028, “Helioseismology with Solar Luminosity Constraints,” 1996–1997.
11. Co-I, NASA Grant NAG5-3941, “Development of data analysis, compression and visualization tools for large data sets in astrophysics and cosmology,” 1997–1998. PI: J. Silk
12. PI, NASA Grant NRA-96-09-OSS-034SOHO, “Modern Statistical Methods for Helioseismic Spectrum Estimation,” 1997–1998.
13. PI, NASA Grant NAG 5-3919, “Data Sampling Rate Reduction for the Oersted Satellite,” 1997–1998.

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14. PI, UC Berkeley Classroom Technologies Grant, “Statistics *Statim*,” 1997–1998.
15. Co-I, NSF Grant DMS-9872979, “*KDI: Computational Challenges in Cosmology*,” 1998–2000. PI: A. Jaffe.
16. Co-I, NSF Grant IIS-98-17353, “*Re-Inventing Scholarly Information Dissemination and Use*,” 4/1/1999–3/31/2004. PI: R. Wilensky and D. Forsythe.
17. PI, Hewlett Packard Company Grant 89293, “Applied Mobile Technology Solutions in Learning Environments,” 3/19/2003–8/31/2004. Status report:
<https://www.stat.berkeley.edu/~stark/Grants/hp89293.htm>
18. PI, Hewlett Packard Company Grant 14928, “Applied Mobile Technology Solutions in Learning Environments—2004 Extension Grant,” 4/1/2004–6/30/2005.
19. PI, LLNL Grant B565605, “Uncertainty in Complex Simulations,” 4/3/2007–9/30/2007.
20. PI, LLNL Grant B585264, “Uncertainty Quantification with Applications to Climate Modeling,” 11/3/2009–9/30/2010.
21. PI, Genentech Inc. Grant 008485, “Measuring Glucose with NIR,” 2/24/2010–10/31/2010.
22. Co-I, NSF Grant DUE-1060487, “S-STEM Berkeley Science Network Scholarship Program,” 3/1/2011–2/28/2015. PI: M. Richards.
23. PI, State of Colorado U.S. Election Assistance Commission subaward UC01, 2010 Pre-Election Logic and Accuracy Testing and Post-Election Audit Initiative, 5/23/2011–4/23/2013.
24. PI, State of California Election Assistance Commission subaward 10I10066, Post Election Risk-Limiting Audit Pilot Program, 9/13/2011–4/23/2013.
25. PI, Bill and Melinda Gates Foundation Grant OPP1077697, “An Introductory Statistics MOOC With Field-Tested Online Assessments,” 12/20/2012–7/31/2013.

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26. Co-I, UC Berkeley MOOCLab Grant, “Forum Usage in Statistics MOOCs: Disentangling Correlation from Causation,” 10/2013–8/2014. PI: M. Hearst.
27. Co-I, Berkeley Institute for Data Science, grant from the Gordon and Betty Moore Foundation and the Sloan Foundation. 12/2013–12/2018. PI: S. Perlmutter.
28. PI, UC Berkeley Food Institute Grant, “Reaping without Sowing: Urban Foraging, Sustainability, Nutrition, and Social Welfare,” 2/2014–8/2015.
29. Co-I, NSF, DGE–1450053, “NRT-DESE Data Science for the 21st Century (DS421),” 2015–2020. PI: D. Ackerley.
30. PI, UC Berkeley Food Institute Grant, “Wild Food: Investigating and Reducing Barriers to the Consumption of Foraged Foods,” 5/2015–12/2015.
31. PI, State Street Bank and Trust Company Grant, “Industry Partners Program: Consortium for Data Analytics in Risk (CDAR); and Berkeley Institute for Data Science (BIDS) at UC Berkeley,” 2/2015–6/2018.
32. PI, Dascena subaward from NIH, “SBIR: A Computational Approach to Early Sepsis Detection,” 4/2017–6/2017.
33. PI, Peder Sather Grant, “Mainstreaming Sensitivity Analysis and Uncertainty Auditing,” 7/2017–6/2018.
34. Co-I, NSF Grant DMS–1745640, “(RTG): Advancing Machine Learning–Causality and Interpretability,” 2018–2023.

Consulting and Expert Witness Experience

Baker & McKenzie LLP, New York, NY: sampling and uncertainty quantification (client Nuclear Electric Insurance Limited, NEIL)

Bartlit Beck Herman Palenchar & Scott LLP, Denver, CO: intellectual property litigation (client Tessera)

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Bingham McCutchen LLP, Los Angeles, CA: sampling in litigation

Bramson, Plutzik, Mahler & Birkhaeuser LLP, Walnut Creek, CA: consumer class action litigation

Brinks, Hofer, Gilson & Lione, Chicago, IL: intellectual property litigation (clients R.J. Reynolds, Actavis)

Calfee, Halter & Griswold LLP, Cleveland, OH: tort litigation (client FirstEnergy Corp)

California-American Water Company: utilities regulation, census and survey data

Capital One: economic modeling and credit risk management; intellectual property litigation; credit loss forecasting

Carey and Carey, Palo Alto, CA: equal protection, civil litigation

CIBC: economic modeling and credit risk management

Cisco Systems: predicting email spool fill

City of Santa Rosa, CA: water treatment monitoring

Cogit.com, San Francisco, CA: Technical advisory board; data mining, targeted web advertising

Constantine, Cannon, San Francisco, CA, and New York, NY: *Qui Tam* litigation

Contra Costa County Public Defender, Richmond, CA: equal protection, due process, medical treatment for defendants found incompetent to stand trial

Council of Europe, Venice Commission, Venice, Italy: election integrity, electoral fraud

Crosby, Heafey, Roach, & May, Oakland, CA: insurance litigation (client Farmer's Insurance)

Croskery Law Offices, Cincinnati, OH: employment discrimination litigation

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East Bay Municipal Utilities District, Oakland, CA: water treatment monitoring

EEG Systems Laboratory, San Francisco, CA: inverse problems for electrical activity of the brain

Emery Celli Brinckerhoff & Abady LLP, Washington, DC: election recounts (client Jill Stein)

eTextbooksOnline.com, New York, NY: National Advisory board

Farella Braun + Martel LLP, San Francisco, CA: sampling and estimation in litigation

Federal Trade Commission, San Francisco, CA: sampling in litigation

Florida Education Association, Tallahassee, FL: teaching evaluations in academic employment decisions

Folger, Levin & Kahn, LLP, San Francisco, CA: sampling and risk management in litigation (client California Self-Insurers' Security Fund)

Fried, Frank, Harris, Shriver & Jacobsen LLP, New York, NY: sampling and estimation in securities litigation (clients Citigroup Global Markets Inc.; Goldman, Sachs & Co.; UBS Securities LLC)

Fuller-Austin Joint Defense Group: modeling in litigation

Georgia Department of Law, Atlanta, GA: lottery winnings (client Georgia Lottery Corporation)

Gibson, Dunn & Crutcher, New York, NY: sampling and estimation in litigation (client AIG / Lavastone Capital)

GMAC Financial Services: economic modeling and credit risk management

Habeas Corpus Resource Center, San Francisco, CA: bias in jury selection

Howard, Rice, Nemerovski, Canady, Falk, & Rabkin, San Francisco, CA: sampling in litigation; inference from retail sales data (clients K-Mart Corp., R.J. Reynolds)

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Howrey LLP, East Palo Alto, CA: sampling in litigation (client Apple Inc.)

HSBC: economic modeling and credit risk management

Jones Day, Columbus, OH: sampling and estimation in litigation (client Cardinal Health)

Kaiser Permanente Northern California, Redwood City, CA: clinical trials in oncology

Kelley Jasons McGuire & Spinelli, LLP: insurance litigation (client St. Paul Fire & Marine Insurance Company)

Keller Grover LLP, San Francisco, CA: *Qui Tam* litigation

Kemnitzer, Barron & Krieg, LLP, San Francisco, CA: sampling in consumer class action litigation

Kipling Law Group, Seattle, WA: sampling in litigation (client AT&T Wireless)

KLA Instruments Corporation, San Jose, CA: calibration of algorithms to detect IC mask flaws

Kramer, Levin, Naftalis, & Frankel, New York, NY: sampling in litigation

Latham & Watkins, LLP, Menlo Park, CA, and San Francisco, CA: sampling in consumer class action litigation (clients Apple Inc., Silver Spring Networks)

Law Offices of Gorman & Miller, San Jose, CA: trade secret litigation

Law Offices of Ilson W. New, San Francisco, CA: natural resource legislation (client California Abalone Association)

Law Offices of Ramirez, Tollner, Stebbins, Bahrnick, & Sasseen, San Jose, CA: trade secret litigation

Law Offices of Welebir & McCune, Woodside, CA: product liability litigation

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Law Offices of Wells, Pinckney & McHugh, Austin, TX: employment discrimination arbitration

Law Offices of Wolkin & Timpane, San Francisco, CA: insurance litigation (client CIGNA)

Law Offices of Scott K. Zimmerman, Brentwood, CA: product liability litigation

Life Chiropractic College West, Hayward, CA: experimental design

Littler Mendelson, P.C., Dallas, TX, Los Angeles, CA, and San Francisco, CA: sampling in employment wage and hour class action litigation

Los Angeles Superior Court, Central District: sampling in employment wage and hour litigation

Manatt, Phelps & Phillips LLP, San Francisco, CA: utilities regulation (client California-American Water Company)

Mayer, Brown, Rowe & Maw, Chicago, IL: intellectual property litigation (client Capital One)

Mayer Brown LLP, New York, NY: mortgage backed securities litigation (clients Bank of New York Mellon, Citibank N.A.)

Memorial University Faculty Association (MUNFA), St. Johns, NL, Canada: teaching evaluations in academic employment decisions

Meyers Nave, Oakland, CA: election dispute litigation (client Novato Sanitary District)

Monaghan Safar Ducham PLLC, Burlington, VT: employment discrimination

Morgan, Lewis & Bockius LLP, Los Angeles, CA: sampling in litigation

Morrison & Foerster, San Francisco, CA: product liability class action litigation, causal inference in litigation (clients American Cemwood, Iovate Health Sciences)

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Munger, Tolles & Olson, LLP, San Francisco, CA and Los Angeles, CA: consumer class action litigation, intellectual property litigation, sampling (clients Verizon Wireless, Philip Morris, Tessera)

Murphy & McGonigle, Washington, DC: risk management and credit loss forecasting (client Capital One)

National Security Agency: adaptive filtering, combining expert opinions, digital communications, information retrieval, estimation

National Solar Observatory, Tucson, AZ: spectrum estimation

Albert A. Natoli, P.C., New York, NY: surveys in consumer class action litigation

Nichols Kaster PLLP, Minneapolis, MN: sampling and damage estimation in consumer class action litigation

Norton Rose Fulbright US LLP, Houston, TX: construction defect litigation (client M.J. Dean Construction, Inc.)

Nossaman LLP, San Francisco, CA: utilities regulation (client California-American Water Company)

Office of the Attorney General, State of California, Oakland, CA: sampling in litigation (client California Highway Patrol)

Ontario Confederation of University Faculty Associations (OCUFA) and Ryerson Faculty Association, Toronto, ON: teaching evaluations in academic employment decisions

Oracle: sampling and risk analysis

Orrick, Herrington & Sutcliffe LLP, Los Angeles and Sacramento, CA: sampling in litigation

Pacific Gas & Electric Co., San Francisco, CA: statistics and causal inference in litigation

Paul, Hastings, Janofsky & Walker LLP, Washington, DC: intellectual property litigation (client Capital One)

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Phillips & Cohen LLP, San Francisco, CA: statistical inference in *Qui Tam* litigation

Porter & Hedges, LLP, Houston, TX: sampling in litigation

Schlumberger-Doll Research, Ridgefield, CT: inverse problems, signal processing

Robins Kaplan LLP: *Qui Tam* litigation

Shearman & Sterling, Washington, DC: survival analysis in litigation

Skadden, Arps, Slate, Meagher & Flom LLP, San Francisco, CA: case-control studies in litigation

Spector Roseman Kodroff & Willis, P.C., Philadelphia, PA: *Qui Tam* litigation

Spriggs & Hollingsworth, Washington, DC: environmental litigation

State of Illinois, Monroe County State's Attorney, Waterloo, IL: evidence in capital prosecution

St. Paul Fire and Marine Insurance Company, Baltimore, MD: projecting tort liability

Susman Godfrey, LLP, Los Angeles, CA

Travis County, TX: design of auditable voting systems

United Faculty of Florida, Tallahassee, FL: teaching evaluations in academic employment decisions

U.S. Attorney's Office, Northern District of California: ethnic bias in grand jury selection

U.S. Department of Agriculture, Washington, D.C.: fairness in lending, import restrictions and risk assessment

U.S. Department of Commerce, Bureau of the Census, Washington, D.C.: estimation and modeling

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U.S. Department of Housing and Urban Development, Washington, D.C.: disparate impact of hurricane Katrina relief program

U.S. Department of Justice, Civil Division, Federal Programs Branch, Washington, D.C.: sampling the Internet and testing Internet content filters; USDA import restrictions on cattle and beef; disparate racial impact in HUD disaster relief; fairness in lending; prevalence of “sexting” among young adults

U.S. Department of Veterans Affairs Medical Center, Martinez, CA: speech and non-speech hearing segregation in aging

U.S. House of Representatives, Washington, D.C.: sampling to adjust the U.S. Census

Weintraub Genshlea Chediak Law Corporation, Sacramento, CA: wage and hour class action litigation (client Tai Wah, Inc.)

Wiegel Law Group, San Francisco, CA: sampling in class action litigation (client Trinity Management Services)

Willoughby, Stuart & Bening, San Jose, CA: insurance litigation

Winston & Strawn LLP, Chicago, IL: consumer class action litigation

Zimmerman Reed, Scottsdale, AZ: consumer class action litigation

Testimony (incomplete prior to 2003)

45. **August 2018.** Delores James *vs.* University of Florida (Grievances # 0817-00108 and 1117-00109) Arbitration.
44. **July 2018.** Testimony to the State of California Little Hoover Commission. Video: <http://www.lhc.ca.gov/report/voting-equipment-security>. Written testimony : <https://www.stat.berkeley.edu/~stark/Preprints/lhs18.pdf>

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43. **July 2018.** United States of America *ex rel.*, Stephen A. Krahling and Joan A. Wlochowski, *vs.* Merck & Co., Inc. (U.S. District Court, Eastern District of Pennsylvania, Case 10-4374 (CDJ)) and *In Re:* Merck Mumps Vaccine Antitrust Litigation (Master File No. 12-3555 (CDJ)) Deposition.
42. **April 2018.** Ryerson University *vs.* The Ryerson Faculty Association re FCS & Related Issues (2018 CanLII 58446) Arbitration.
41. **August 2017.** Application of California-American Water Company (U210W) for Authorization to Modify Conservation and Rationing Rules, Rate Design, and Other Related Issues for the Monterey District (Public Utility Commission of the State of California, Application 15-07-019) Hearing.
40. **July 2017.** United States, the States of California, Delaware, Florida, Illinois, Indiana, Nevada, New Mexico, New York, and Tennessee, the Commonwealths Of Massachusetts and Virginia, and The District Of Columbia Ex Rel. John Hendrix, Plaintiffs, *vs.* J-M Manufacturing Company, Inc., d/b/a JM Eagle, a Delaware corporation, and Formosa Plastics Corporation, U.S.A., a Delaware corporation (U.S. District Court, Central District of California, Case ED CV 06-00055-GW) Deposition.
39. **March 2017.** The People of the State of California *vs.* Keegan Lee Czirban, Richard Allen, Filoberto Pablo Alvidrez, Jaqwayne Bryant, Dale Gabriel Burnell, Juan Pablo Cardona aka Juan Luna-Cardona, Miguel Colina, Emmanuel Cordova, Ramon Duenas, Connie Renee Fields, Anisa Sakari Fortenberry, Louie Frank Gamboa, Cynthia Marie Harrell, Briana Hawkins, Jeremiah James Johnson, Kieth Carl Knutson, Mark Alex Mallory, Brian McMahon, David Moore, Marquise Lamar Owens, Mitkayem Dean Robinson, Patrice Sanders, and Seth Rui Sears. (Superior Court of the State of California, County of Contra Costa, 05-151662-4 and associated cases) Trial.

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38. **March 2017.** Kelly Brunarski and Yvette Harmon *vs.* Miami University. (U.S. District Court, Southern District of Ohio, Western Division, 1:16-cv-0311) Deposition.

37. **January 2017.** The Western and Southern Life Insurance Company, et al. *vs.* The Bank of New York Mellon. (Court Of Common Pleas, Hamilton County, Ohio, A1302490) Trial.

36. **December 2016.** Fixed Income Shares: Series M, Lvs II LLC, PCM Fund, Inc., PIMCO Absolute Return Strategy II Master Fund LDC, PIMCO Absolutereturnstrategy III Master Fund LDC, PIMCO Absolute Return Strategy III Overlay Master Fund Ltd., PIMCO Absolute Return Strategy IV Master Fund LDC, PIMCO Absolute Return Strategy V Master Fund LDC, PIMCO Bermuda Trust: PIMCO Bermuda Foreign Low Duration Fund, PIMCO Bermuda Trust: PIMCO Bermuda U.S. Low Duration Fund, PIMCO Cayman Spc Limited, PIMCO Cayman Japan Coreplus Segregated Portfolio, PIMCO Cayman Trust: PIMCO Cayman Global Advantage Bond Fund, PIMCO Cayman Trust: PIMCO Cayman Global Aggregate Ex-Japan (Yen-Hedged) Bond Fund II, PIMCO Cayman Trust: PIMCO Cayman Global Aggregate Exjapan (Yen-Hedged) Income Fund, PIMCO Cayman Trust: PIMCO Cayman Global Aggregate Ex-Japan Bond Fund, PIMCO Cayman Trust: PIMCO Cayman Global Bond (Nzdhedged) Fund, PIMCO Dynamic Credit Income Fund, PIMCO ETF Trust, PIMCO Total Return Active Exchange-Traded Fund, PIMCO Funds: Global Investors Series PLC, Diversified Income Fund, PIMCO Funds: Global Investors Series PLC, Global Bond Fund, PIMCO Funds: Global Investors Series PLC, Global Investment Grade Credit Fund, PIMCO Funds: Global Investors Series PLC, Income Fund, PIMCO Funds: Global Investors Series PLC, PIMCO Credit Absolute Return Fund, PIMCO Funds: Global Investors Series PLC, Unconstrained Bond Fund, PIMCO Funds: PIMCO Commodities Plus Strategy Fund, PIMCO Funds: PIMCO Commodity Real Return Strategy Fund, PIMCO Funds: PIMCO Credit Absolute Return Fund, PIMCO Funds: PIMCO Diversified Income Fund, PIMCO Funds: PIMCO Floating Income Fund, PIMCO Funds: PIMCO

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Foreign Bond Fund (Unhedged), PIMCO Funds: PIMCO Global Advantage Strategy Bond Fund, PIMCO Funds: PIMCO Global Bond Fund (Unhedged), PIMCO Funds: PIMCO Income Fund, PIMCO Funds: PIMCO International Stocksplus AR Strategy Fund (U.S. Dollarhedged), PIMCO Funds: PIMCO Investment Grade Corporate Bond Fund, PIMCO Funds: PIMCO Low Duration Fund, PIMCO Funds: PIMCO Low Duration Fund II, PIMCO Funds: PIMCO Low Duration Fund III, PIMCO Funds: PIMCO Real Return Fund, PIMCO Funds: PIMCO Short-Term Fund, PIMCO Funds: PIMCO Total Return Fund, PIMCO Funds: PIMCO Unconstrained Bond Fund, PIMCO Funds: PIMCO Worldwide Fundamental Advantage AR Strategy Fund, PIMCO Funds, Private Account Portfolio Series Emerging Markets Portfolio, PIMCO Funds: Private Account Portfolio Series International Portfolio, PIMCO Funds: Private Account Portfolio Series Mortgage Portfolio, PIMCO Funds: Private Account Portfolio Series Short-Term Portfolio, PIMCO Funds: Private Account Portfolio Series U.S. Government Sector Portfolio, PIMCO Multi-Sector Strategy Fund Ltd., PIMCO Offshore Funds - PIMCO Absolute Return Strategy IV Efund, PIMCO Variable Insurance Trust: PIMCO Global Advantage Strategy Bond Portfolio, PIMCO Variable Insurance Trust: PIMCO Global Bond Portfolio (Unhedged), PIMCO Variable Insurance Trust: PIMCO Low Duration Portfolio, CREF Bond Market Account, CREF Social Choice Account, TIAA Global Public Investments, MBS LLC, TIAA-CREF Bond Fund, TIAA-CREF Bond Plus Fund, TIAA-CREF Life Insurance Company, Prudential Bank & Trust, FSB, Prudential Retirement Insurance and Annuity Company, The Gibraltar Life Insurance Company, Ltd., The Prudential Series Fund, LIICA RE II, Inc., Monumental Life Insurance Company Modified Separate Account, Transamerica Life Insurance Company, Transamerica Premier Life Insurance Company, Kore Advisors LP, and Sealink Funding Limited *vs.* Citibank N.A. (U.S. District Court, Southern District of New York, 14-cv-09373-JMF) Deposition.

35. **November 2016.** Jill Stein, Petitioner, *vs.* Wisconsin Elections Commission and Members of the Wisconsin Elections Commission, each and only in his or her official capacity: Mark L. Thomsen,

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Ann S. Jacobs, Beverly Gill, Julie M. Glancey, Steve King, and Don M. Millis, Respondents. (State of Wisconsin Circuit Court, Dane County, Judge Valerie Bailey-Rihn) Trial.

34. **October 2016.** Citizens Oversight, Inc., a Delaware non-profit corporation; and Raymond Lutz, an individual, *vs.* Michael Vu, San Diego Registrar of Voters; Helen N. Robbins-Meyer, San Diego County Chief Administrative Officer; County of San Diego, a public entity; and Does 10–10, Defendants. (Superior Court of California, County of San Diego–Central Division, 37-2016-00020273-CL-MC-CTL) Trial.
33. **July 2016.** *Loc Vu-Quoc vs. University of Florida.* (American Arbitration Association Case no. 01-15-0006-1052). Arbitration.
32. **July 2016.** Memorial University of Newfoundland Faculty Association *vs.* Memorial University of Newfoundland (Arbitration I15-07) Arbitration.
31. **June 2016.** Gasia Thomas, et al., *vs.* First Energy Corporation, et al. (Court Of Common Pleas, Cuyahoga County, Ohio, 13-CV-798520) Deposition.
30. **May 2016.** The Western and Southern Life Insurance Company, et al., *vs.* The Bank of New York Mellon. (Court Of Common Pleas, Hamilton County, Ohio, A1302490) Deposition.
29. **February 2016.** Palms Place, LLC, a Nevada limited liability company, *vs.* Kittrell Garlock & Associates, Architects, AIA, LTD. d/b/a KGA Architecture, a Nevada professional corporation; M.J. Dean Construction, LLC, a Nevada limited liability company; Does I through X; Roe Corporations I through X; and Roe LLC I through X, Defendants. M.J. Dean Construction, Inc., a Nevada corporation, Counterclaimant, *vs.* Palms Place, LLC, a Nevada limited liability company, Does I-X,

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Roe Corporations I-X, Boe Bonding Companies I-X, Loe Lenders I-X and Toe Tenants I-X, Counterdefendants.

Kittrell Garlock & Associates, Architects, AIA, Ltd. d/b/a KGA Architecture, a Nevada professional corporation, Counterclaimant, *vs.* Palms Place, LLC, a Nevada limited liability company, and Toes I XV, Counterdefendants.

M.J. Dean Construction, Inc., a Nevada corporation, Third-Party Plaintiff, *vs.* Embassy Glass, Inc., a Nevada corporation; Zetian Systems, Inc., a Nevada corporation; Bombard Mechanical, LLC, a Limited Liability Company; Century Steel, Inc., a Nevada corporation; Pacific Custom Pools, Inc., a Nevada corporation; Superior Tile & Mechanical, Inc., a Nevada corporation; Mesa Mechanical, LLC, a Limited Liability Company; Dean Roofing Co., a Nevada Corporation; Does 1 through 50; Roe Corporations 1 through 50, Third-Party Defendants.

Palms Place, LLC, a Nevada limited liability company, Cross-Claimant, *vs.* Embassy Glass, Inc., a Nevada corporation; Zetian Systems, Inc., a Nevada corporation; Does 1 through 50; Roe Corporations 1 through 50, Cross-Defendants. (Nevada District Court, Clark County, Nevada, A-11-645150-C) Deposition.

28. **September 2015.** Lavastone Capitol LLC *vs.* Coventry First LLC, LST I LLC, LST II LLC, LST Holdings LTD., Montgomery Capital, Inc., Alan Buerger, Reid Buerger, Constance Buerger, and Krista Lake. (U.S. District Court, Southern District of New York, 14-CV-07139 JSR) Trial.
27. **May 2015.** Lavastone Capitol LLC *vs.* Coventry First LLC, LST I LLC, LST II LLC, LST Holdings LTD., Montgomery Capital, Inc., Alan Buerger, Reid Buerger, Constance Buerger, and Krista Lake. (U.S. District Court, Southern District of New York, 14-CV-07139 JSR) Deposition.
26. **April 2015.** Testimony before the California State Assembly Committee on Elections and Redistricting. Legislative hearing. <https://www.stat.berkeley.edu/~stark/Preprints/ab44-assembly-2015-4>

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-15.htm

25. **July 2014.** New Jersey Carpenters Health Fund, New Jersey Carpenters Vacation Fund, and Boilermaker Blacksmith National Pension Trust, on Behalf of Themselves and All Others Similarly Situated, *vs.* Residential Capital, LLC; Residential Funding, LLC; Residential Accredited Loans, Inc.; Bruce J. Paradis; Kenneth M. Duncan; Davee L. Olson; Ralph T. Flees; Lisa R. Lundsten; James G. Jones; David M. Bricker; James N. Young; Residential Funding Securities Corporation d/b/a GMAC RFC Securities; Goldman, Sachs & Co.; RBS Securities, Inc. f/k/a Greenwich Capital Markets, Inc. d/b/a RBS Greenwich Capital; Deutsche Bank Securities, Inc.; Citigroup Global Markets, Inc.; Credit Suisse Securities (USA) LLC; Bank of America Corporation as successor-in-interest to Merrill Lynch, Pierce, Fenner & Smith, Inc.; UBS Securities LLC; JPMorgan Chase & Co., Inc. as successor-in-interest to Bear, Stearns & Co., Inc.; and Morgan Stanley & Co., Inc. (U.S. District Court, Southern District of New York, Case 08-CV-8781 HB) Deposition.

24. **October 2013.** United States, the States of California, Delaware, Florida, Illinois, Indiana, Nevada, New Mexico, New York, and Tennessee, the Commonwealths Of Massachusetts and Virginia, and The District Of Columbia Ex Rel. John Hendrix, Plaintiffs, *vs.* J-M Manufacturing Company, Inc., d/b/a JM Eagle, a Delaware corporation, and Formosa Plastics Corporation, U.S.A., a Delaware corporation (U.S. District Court, Central District of California, Case ED CV 06-00055-GW) Trial.

23. **September 2013.** Tessera, Inc. *vs.* Advanced Micro Devices, Inc., a Delaware corporation; Spansion, LLC, a Delaware limited liability corporation; Spansion, Inc., a Delaware corporation; Spansion Technology, Inc., a Delaware corporation; Advanced Semiconductor Engineering, Inc., a Republic of China corporation; ASE (U.S.), Inc., a California corporation; ChipMOS Technologies, Inc., a Republic of China corporation; ChipMOS U.S.A., Inc., a California corporation; Siliconware Precision Industries Co., Ltd., a Republic of China corporation;

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Siliconware USA, Inc., a California corporation; STMicroelectronics N.V., a Netherlands corporation; STMicroelectronics, Inc., a Delaware corporation; STATS ChipPAC, Inc., a Delaware corporation; STATS ChipPAC (BVI), Inc., a British Virgin Islands company; STATS ChipPAC, Ltd., a Singapore company (U.S. District Court, Northern District of California, Case C 05-04063 CW) Deposition.

22. **July 2013.** United States, the States Of California, Delaware, Florida, Illinois, Indiana, Nevada, New Mexico, New York, and Tennessee, the Commonwealths Of Massachusetts And Virginia, and The District Of Columbia Ex Rel. John Hendrix, Plaintiffs, *vs.* J-M Manufacturing Company, Inc., d/b/a JM Eagle, a Delaware corporation, and Formosa Plastics Corporation, U.S.A., a Delaware corporation (U.S. District Court, Central District of California, Case ED CV 06-00055-GW) Deposition.
21. **June 2013.** Free Speech Coalition, Inc., American Society Of Media Photographers, Inc.; Michael Barone; David Connors a/k/a Dave Cummings; Thomas Hymes; Townsend Enterprises, Inc. d/b/a Sinclair Institute; C1R Distribution, LLC d/b/a Channel 1 Releasing; Barbara Alper; Carol Queen; Barbara Nitke; David Steinberg; Marie L. Levine a/k/a Nina Hartley; Dave Levingston; Betty Dodson; Carlin Ross *vs.* Eric H. Holder, Jr., Attorney General of the United States (U.S. District Court, Eastern District of Pennsylvania, Case 2:09-4607 MMB) Trial.
20. **October 2011.** Jonathan Buckheit *vs.* Tony Dennis, Dean Devlugt, Town of Atherton, County of San Mateo, Anthony Kockler and Jerry Carlson (U.S. District Court, Northern District of California, Case CV09-5000 JCS) Deposition.
19. **June 2010.** Testimony before California State Senate Committee on Elections, Reapportionment and Constitutional Amendments. Legislative hearing. <https://www.stat.berkeley.edu/~stark/Prep>

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[rints/ab2023-senate-15-6-10.htm](https://www.stat.berkeley.edu/~stark/Preprints/ab2023-senate-15-6-10.htm)

18. **April 2010.** Testimony before California State Assembly Committee on Elections and Redistricting. Legislative hearing. <https://www.stat.berkeley.edu/~stark/Preprints/ab2023-assembly-20-4-10.htm>
17. **March 2010.** Suzan Sharpley and Robert Abeling *vs.* William Long; Novato Sanitary District; Elaine Ginnold, Marin County Registrar of Voters; Does 1–10. (State of California Superior Court, County of Marin, Case CIV 096368) Trial.
16. **January 2010.** Kastanos et al. *vs.* Central Concrete Supply Co., Inc. (State of California Superior Court, County of Alameda, Lead Case No. HG 07-319366) Trial.
15. **June 2009.** Star Scientific, Inc., *vs.* R.J. Reynolds Tobacco Company, et al. (U.S. District Court, Maryland District, Northern Division, Case Nos. MJG-01 1504 and MJG-02 2504) Trial.
14. **May 2009.** Star Scientific, Inc., *vs.* R.J. Reynolds Tobacco Company, et al. (U.S. District Court, Maryland District, Northern Division, Case Nos. MJG-01 1504 and MJG-02 2504) Deposition.
13. **July 2008.** Coordination Proceeding Special Title (Rule 1550(b)) Cellphone Termination Fee Cases (State of California Superior Court, County of Alameda, Case 4332) Deposition.
12. **April 2008.** Coordination Proceeding Special Title (Rule 1550(b)) Cellphone Termination Fee Cases (State of California Superior Court, County of Alameda, Case 4332) Deposition.

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11. **August 2007.** Self-Insurers' Security Fund *vs.* Gallagher Bassett Services, Inc. (U.S. District Court, Northern District of California, Case No. C 06-02828 JSW) Deposition.
10. **March 2007.** Peter Wachtell *vs.* Capital One Financial Corporation and Capital One Services, Inc. (U.S. District Court, District of Idaho, Case No. CIV03-267-S-MHW) Deposition.
9. **November 2006.** Coordination Proceeding Special Title (Rule 1550(b)) Cellphone Termination Fee Cases (State of California Superior Court, County of Alameda, Case 4332) Deposition.
8. **November 2006.** ACLU *vs.* Gonzales (U.S. District Court, Eastern District of Pennsylvania, Civil Action No. 98-5591) Trial.
7. **August 2006.** ACLU *vs.* Gonzales (U.S. District Court, Eastern District of Pennsylvania, Civil Action No. 98-5591) Deposition.
6. **December 2004.** Star Scientific, Inc., *vs.* R.J. Reynolds Tobacco Company, et al. (U.S. District Court, Maryland District, Northern Division, Case Nos. MJG-01 1504 and MJG-02 2504) Trial.
5. **December 2003.** Richison et al. *vs.* American Cemwood Corporation (State of California Superior Court, San Joaquin County, Case No. 005532) Trial.
4. **December 2003.** Pacific Gas and Electric Co. *vs.* City and County of San Francisco (U.S. District Court, Northern District of California, Case No. C99-2071 VRW) Deposition.
3. **May 2003.** Richison et al. *vs.* American Cemwood Corporation (State of California Superior Court, San Joaquin County, Case No. 005532)

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Deposition.

2. **May 1998.** Testimony before the U.S. House of Representatives Subcommittee on the Census. Legislative hearing.
1. **1997.** Testimony before the State of California Senate Committee on Natural Resources. Legislative hearing.

<https://www.stat.berkeley.edu/~stark/bio.pdf>

Last modified September 4, 2018.

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**IN THE UNITED STATES DISTRICT COURT FOR
THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION**

DONNA CURLING, et al.

Plaintiff,

vs.

BRIAN P. KEMP, et al.

Defendant.

CIVIL ACTION FILE NO.: 1:17-cv-2989-AT

DECLARATION OF SUSAN CANNELL

SUSAN CANNELL hereby declares as follows:

1. I am a Georgia voter, registered to vote at my residence 1778 Apple Blvd, Marietta, Georgia 30066.
2. I served on the bi-partisan Cobb County Ballot Review Board for the May 22, 2018 primary election. One of the duties of this board is to review hand-marked paper ballots rejected by the optical scanner for over-votes or other paper ballot damage causing the ballot to be rejected by the scanner.
3. The bi-partisan board manually reviewed each of these ballots (which was a very small number), to determine which mark was rejected, and whether the voters' intended votes could be determined.

4. There was unanimous agreement by the board in every case, after which the ballot was duplicated with the interpreted marks so that it could be read by the scanner.
5. Some overvotes were ballots where the voter marked a vote for one of the candidates printed on the ballot and in addition wrote in a different candidate in the section for write-in votes. In my experience, the type of mark that generally causes an overvote that the machine rejects, is a smudge mark or stray mark or a mark that the voter purposely scratches out to correct his vote. It appears to be uncommon that a ballot is cast where the voter's intent cannot be determined.
6. If there had been a vote for which the voter's intent could be determined, only the ambiguous vote would be rejected, the rest of the voter's ballot would be counted as cast.
7. During the board's review there were also two other review boards for the Smyrna City Council election and the Kennesaw City Council election meeting simultaneous with our meeting. Both boards reported to us that they received no ballots that required review. All paper ballots cast in those elections were read without any rejections by the scanner according to their report and my observation of their activity.

I declare under penalty of perjury, in accordance with 28 U.S.C. § 1746, that the foregoing is true and correct.

Executed on this date, September 10 , 2018


Susan Cannell

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**IN THE UNITED STATES DISTRICT COURT FOR
THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION**

DONNA CURLING, et al.)	
)	
Plaintiff,)	
)	
vs.)	CIVIL ACTION FILE NO.:
)	1:17-cv-2989-AT
BRIAN P. KEMP, et al.)	
)	
Defendant.)	

SUPPLEMENTAL DECLARATION OF JASMINE CLARK

JASMINE CLARK hereby declares as follows:

1. This statement supplements my declaration of July 31, 2018 addressing the electronic pollbook error in my precinct when I attempted to vote on July 24, 2018, and was initially told that I was in the wrong polling place.
2. As I reported in my earlier declaration, it was only after I complained repeatedly to numerous officials including phone calls to Gwinnett County elections office, that I was permitted to vote in my correct precinct, while I watched others being turned away.

3. I followed up on my complaint with Gwinnett County officials and was told that the poll worker went into the wrong part of express poll (State level instead of precinct level) to look me up and there were 41 other Jasmine Clark(s), and he chose the wrong one. An alternate explanation was that in Gwinnett they must have been looking at the name Jamie Clark, who's voting precinct matches the one they were trying to divert me to. This was explain to me by Lynn Ledford at the Gwinnett Board of Elections Monthly Meeting on Aug 21, 2018.
4. The response I was given cannot be accurate because (1) there is no other Jasmine Clark in the express pollbook that should have been registered to vote at the Chinese Christian Church (the incorrect precinct; (2) I was there for approximately 30 minutes and my name and birthday were verified by multiple people, multiple times while I was there; (3) Jamie Clark is a male (a JR) and we do not share a birthday, so I should not have been mistaken for him.
5. As a candidate on the ballot in November and as a voter, I am dissatisfied with this inaccurate response because myself and others were told to go vote at a precinct that is located in a different House District. This means that if I would have left and gone to another location, then one of 2 things would have happened: (1) If my name were there I would have been voting for the

incorrect House District (District 97 instead of District 108), which directly affects votes for my race; If my name were not there and I was given a provisional ballot, I would not have had the correct candidates on my ballot and thus been able to cast a ballot for the correct State House candidate.

6. In my opinion it is imperative that the electronic pollbooks be brought into sync with accurate voter registration rolls prior to the November election to avoid frustrating, confusing and disenfranchising voters.
7. I would also like to see a paper copy of an accurate pollbook in the polling place so that pollworkers could reference a trusted record if there is any problem with the e-pollbooks.

I declare under penalty of perjury, in accordance with 28 U.S.C. § 1746, that the foregoing is true and correct.

Executed on this date, September 9, 2018.

A handwritten signature in blue ink, appearing to read 'Jasmine Clark', with a stylized, cursive script.

Jasmine Clark

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**IN THE UNITED STATES DISTRICT COURT FOR
THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION**

DONNA CURLING, et al.

Plaintiff,

vs.

BRIAN P. KEMP, et al.

Defendant.

**CIVIL ACTION FILE NO.: 1:17-cv-
2989-AT**

DECLARATION OF JEANNE DUFORT

JEANNE DUFORT hereby declares as follows:

1. I am a Georgia voter registered to vote at my residence 1360 Apalachee River Rd, Madison, 30650 in Morgan County, Georgia, and I have resided there since 2003.
2. Morgan County has approximately 13,200 registered voters.
3. Beginning this past summer, I have taken an active role in advocating both in Morgan County and statewide for adoption of paper ballots for the November, 2018 election. As part of these efforts, I have reviewed the state law, the State Election Board rules and transcripts of their 2010 through 2018 meetings, the Morgan County Election Board's statutory authority, and met with Morgan County local officials numerous times regarding the feasibility of adopting paper ballots in Morgan County.

4. On July 19, 2018 at the regular meeting of the Morgan County Board of Elections and Registration (BOER), Dutton Morehouse, chairman of the Morgan County Democratic Party, presented concerns about election security and use of the DRE devices with two specific requests: (1) that the BOER confirm whether Morgan was one of the Georgia Counties mentioned in the recently released indictments of GRU officers and (2) that the BOER investigate the feasibility of using paper ballots for all Morgan County voters for the upcoming mid-term election. I personally collaborated with Mr. Morehouse on the presentation, but could not attend for medical reasons. The BOER agreed to both requests, by 2-1 vote. Following the meeting, the Morgan County Supervisor of Elections, Jennifer Doran, communicated by email and phone with both Mr. Morehouse and me. Exhibit 1 contains a series of emails between me, Mr. Morehouse, and Ms. Doran. On July 20, Ms. Doran responded to the “Russian hacking” question by sharing portions of an email she received from Elections Director Chris Harvey, who stated that “visited websites is not the same as hacking websites”. On July 27, Ms. Doran advised us of the bulletin released by the Secretary of State that confirmed Morgan County was not a target. In a July 30 email [Exhibit 1], in response to my query about whether she had been able to determine the “feasibility of paper ballots for the November

election”, Ms. Doran confirmed that she was gathering information for the BOER and would present it at the next meeting.


5. I personally attended the regular meeting of the Morgan County BOER on August 16, and used my personal phone to video the portion of the meeting that included Ms. Doran’s report and the BOER discussion. The link to the complete and unedited video of this discussion is here: <https://youtu.be/X2rzu3fwUjA>
6. The video clearly shows an election supervisor preparing to use paper ballots for all voters in the upcoming election if such a decision to do so is made, and the BOER discussing options for how to best execute an all paper ballot election, if so ordered. The video also shows that multiple communications from Chris Harvey, asserting that local authorities may not use the powers granted by the legislature, have materially discouraged them from taking independent action.
7. In the video, Ms. Doran advises the Board that per Chris Harvey, Morgan County has to use the DRE’s, and that the County Attorney had advised the same “until state law changes.” She also references the state bulletin that is a response to the letter sent by the Coalition for Good Governance urging BOER to use paper ballots. BOER member Helen Butler asks about the federal lawsuit and Ms. Doran summarizes Secretary Kemp’s response and notes that the plaintiff’s response is due. Ms. Doran then moves into a report

about what would be needed to use paper ballots for all voters: discussion of scanners needed and printing costs. Total estimate is \$15-\$17,000. She confirms the equipment is available. Board then discusses the option of scanning at all precincts versus scanning centrally – cost versus security.

8. Following the meeting, I continued to communicate with Ms Doran in person, by phone, and by email. Exhibit 2 contains a series of emails between me and Ms. Doran. Her email dated 8/22 says “this is a follow-up to a conversation we had last night” and asks for contact information for potentially acquiring additional optical scanners at a reduced cost, noting “having this information ready in anticipation of the outcome of the pending lawsuit would be helpful”. It is my clear impression from my personal interactions with Ms. Doran, including her report to the board and her follow-up emails, that she is prepared to conduct upcoming elections using paper ballots for all voters, in the event that the court so rules, and that she has not ever indicated that this would place an undue burden on Morgan County.

I declare under penalty of perjury, in accordance with 28 U.S.C. § 1746, that the foregoing is true and correct.

Executed on this date, Sept 10, 2018



Jeanne Dufort

RE: Russian hacking question

Jennifer Doran <jdor@morgancountyga.gov>

Mon 7/30/2018 9:42 AM

To: Jeanne Dufort <jeanne@horseandhome.com>; Dutton Morehouse <duttonmorehouse@gmail.com>;

Good morning,

Once I receive all the information the Board directed me to gather, I will present it at the next meeting, and they will use that information to determine their next steps.

Thank you,

Jennifer Doran
Elections Supervisor
Morgan County Board of Elections and Registration
434 Hancock Street
Madison, GA 30650
706-343-6311 office
706-818-4338 cell
jdoran@morgancountyga.gov



MORGAN COUNTY
Simply Beautiful

From: Jeanne Dufort <jeanne@horseandhome.com>

Sent: Friday, July 27, 2018 2:29 PM

To: Jennifer Doran <jdor@morgancountyga.gov>; Dutton Morehouse <duttonmorehouse@gmail.com>

Subject: Re: Russian hacking question

Happy to hear that we were not the target - this time.

With Dan Coats statement that this is "red alert" time - we do need to be very cautious.

Have you been able to determine the feasibility of paper ballot for the November election?

Jeanne

9/5/2018

Mail - jeanne@horseandhome.com

From: Jennifer Doran <jdoran@morgancountyga.gov>

Sent: Friday, July 27, 2018 8:09:15 AM

To: Jeanne Dufort; Dutton Morehouse

Subject: RE: Russian hacking question

Good morning,

As you may have seen in the news yesterday, the Secretary of State released a bulletin to all election officials regarding the Russian hacking indictment.

There were two Georgia counties whose websites were visited, but there was no attempt to hack. Morgan County is NOT one of those two counties. As you expressed concern that Morgan County may have been one of those counties, I wanted to follow up and let you know.

Thank you,

Jennifer Doran

Elections Supervisor

Morgan County Board of Elections and Registration

434 Hancock Street

Madison, GA 30650

706-343-6311 office

706-818-4338 cell

jdoran@morgancountyga.gov



From: Jeanne Dufort <jeanne@horseandhome.com>

Sent: Friday, July 20, 2018 3:46 PM

To: Dutton Morehouse <duttonmorehouse@gmail.com>; Jennifer Doran <jdoran@morgancountyga.gov>

Subject: Re: Russian hacking question

Perhaps the question that should be asked is "was Morgan County one of the Georgia Counties whose website was visited to identify vulnerabilities.

And maybe in light of this response from the Secretary of State's office, our question should be directed to the County Manager and Chairman of the Commissioners....

who should direct their inquiry to DHS...

From: Dutton Morehouse <duttonmorehouse@gmail.com>

Sent: Friday, July 20, 2018 3:39:23 PM

To: Jennifer Doran

Subject: Re: Russian hacking question

Thanks, Jennifer, for your quick response. I am certainly not trying to make news where none exists, but it seems to me that, reading between the lines, the short answer is "we don't know." I trust Chris will stay on top of this.

Thanks, again,

Dutton

Dutton Morehouse
duttonmorehouse@gmail.com
920-535-0139

On Jul 20, 2018, at 3:09 PM, Jennifer Doran <jdoran@morgancountyga.gov> wrote:

Good afternoon,

I contacted Chris Harvey, Elections Director for the Georgia Secretary of State, asking him about the concerns raised at the Morgan County Board of Elections and Registration meeting yesterday regarding the indictment for federal hacking. His response is below:

There is no evidence of hacking of anything in Georgia regarding this indictment. The indictment (paragraph 75) states: "...co-conspirators further targeted state and county offices responsible for administering the 2016 US Elections. For example, on or about October 28, 2016, KOVALEV and his co-conspirators visited the websites of certain counties in Georgia, Iowa, and Florida to identify vulnerabilities."

"Visited websites" is not the same as hacking websites and visiting doesn't necessarily imply "scanning" of websites. We are in regular communication with Department of Homeland Security (DHS) on these matters, but we cannot provide any more details at this time.

Thank you,

Jennifer Doran
Elections Supervisor
Morgan County Board of Elections and Registration
434 Hancock Street
Madison, GA 30650
706-343-6311 office
706-818-4338 cell
jdoran@morgancountyga.gov
<image001.png>

Georgia Open Records Act: Under Georgia law, all information, including e-mail, written letters, documents and phone messages, sent to the County Board of Commissioners and County offices and employees is subject to Public Records law. This includes the sender's e-mail address, home address or phone number if shown in the message, the content of the message and any associated attachments to the mail.

Re: OS unit contact

Jeanne Dufort

Wed 8/22/2018 5:14 PM

Sent Items

To: Jennifer Doran <jdoran@morgancountyga.gov>;

glad to help.

It may take you an email or two to get directly to the "custodian" of the optical scanners. two of the expert witnesses, themselves current or former election directors, have been in contact and will help you get in touch.

who has scanners: Angie Leath, Election Director, El Paso County, CO

who can put you in touch with her:

Amber McReynolds amber@voteathome.org - until recently, she was the Elections Director for the City and County of Denver

Virginia Martin virginiamartin2010@gmail.com - election ommissioner, Columbia County, NY

also - have you been in touch with K&H Integrated Print Solutions out of Washington - I'm told they are one of the largest ballot printers in the county, and have been providing ballots for as low as \$.26 per ballot - I have no idea how our small batches would affect the price. But in case you would like to seek a competitive bid - contact Dave Haines dhaines@khprint.com

hope this helps.

Also -

From: Jennifer Doran <jdoran@morgancountyga.gov>

Sent: Wednesday, August 22, 2018 11:24:27 AM

To: Jeanne Dufort

Subject: OS unit contact

Jeanne,

This is a follow up to the conversation we had last night regarding the contact information for the OS units in Colorado. Could you send it to me at your convenience? Having this information ready in anticipation of the outcome of the pending lawsuit would be helpful.

Thank you,

Jennifer Doran
Elections Supervisor
Morgan County Board of Elections and Registration
434 Hancock Street

9/5/2018

Mail: jeanne@horseandhome.com

Madison, GA 30650

706-343-6311 office

706-818-4338 cell

jdoran@morgancountyga.gov



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**IN THE UNITED STATES DISTRICT COURT FOR
THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION**

DONNA CURLING, et al.

Plaintiff,

vs.

BRIAN P. KEMP, et al.

Defendant.

**CIVIL ACTION FILE NO.:
1:17-cv-2989-AT**

SUPPLEMENTAL DECLARATION OF VIRGINIA MARTIN

VIRGINIA MARTIN hereby declares as follows:

1. I submitted a declaration in this lawsuit on August 20, 2018.
This declaration supplements that information.

VOTER CONFUSION

2. It is my understanding that defendants predict that voters will be befuddled when confronted by the hand-marking of paper ballots and will have difficulty coloring in ovals in a manner that could be successfully counted in centrally located optical scanners. It is asserted that without a voting machine to alert voters that they have mismarked their ballots, voters will be disenfranchised by the casting of uncountable ballots.

3. I have personal experience in transitioning tens of thousands of voters from a mechanical lever voting-machine election to one with paper ballots and optical scanners. That transition was accomplished effectively and without significant difficulty by implementing a very simple, almost

unnecessary voter-education program, primarily at the poll site on election day, utilizing oral instructions from poll workers as well as graphically illustrated written instructions. My county's experience was that voters had little to no difficulty understanding how to properly vote such a hand marked paper ballot. In my role as Commissioner, I visited the polling places and observed voters voting by hand-marked paper ballots. I did not observe any voters appearing to be confused or voicing confusion at how to mark a paper ballot with a pen. And in fact the machine counting and subsequent hand counting of the ballots confirmed that ballots were and are clearly marked in unambiguous ways.

4. I have nine years of experience in running dozens of elections in Columbia County, New York in which voters hand-mark optically scanned paper ballots. My county's elections have entailed hundreds of thousands of voter-marked ballots and easily millions of votes on individual races. I have personally examined thousands of hand-marked paper ballots.


5. In 2010 and 2011 during the transition between voting methods, the most frequent error voters made was a failure to adequately fill in the voting oval. Another was using a pen that was not recognizable by the optical scanner. However, neither occurred with great frequency, and both were very easily averted with very simple educational techniques. The frequency of such errors, negligible during the transition period, has decreased even further since that time. But it should be noted that, in both cases, a human review of the ballots easily adjudicated the votes to determine voter intent so that all votes could be counted.

6. Our trained counters recognize the kinds of markings that a scanner will count as a vote and those that a scanner will entirely fail to

discern. In such a case, the voter's intent is interpreted by bipartisan teams and is honored.

I declare under penalty of perjury, in accordance with 28 U.S.C. § 1746, that the foregoing is true and correct.

Executed on this date, September 10, 2018.



Virginia Martin