

Curriculum Vitae

Philip Bradford Stark

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Biographical Information

Born: 7 October 1960, Houston, Texas.

Citizenship: U.S.A.

Interests

Theory: Inverse problems, multiplicity, nonparametrics, optimization, restricted parameters

Applications: Astrophysics, educational technology, elections, geophysics, hearing, litigation, marketing, public policy, risk assessment and control, uncertainty quantification in complex problems

Appointments

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 Science and Engineering, University of California, Berkeley

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

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

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, 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)

Societies and Affiliations

Member and Accredited Professional Statistician, American Statistical Association

Bernoulli Society for Mathematical Statistics and Probability

Center for Data Analysis Technology and Applications (DATA)

Center for Astrostatistics (Penn State)

Global Oscillation Network Group (GONG)

Institute of Mathematical Statistics

Fellow and Chartered Physicist, Institute of Physics

International Statistical Institute

National Partnership for Advanced Computational Infrastructure (NPACI)

Royal Astronomical Society

Society for Empirical Legal Studies

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

Space Sciences Laboratory, University of California, Berkeley

Theoretical Astrophysics Center, University of California, Berkeley

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.
6. Stark, P.B., 1987. Rigorous velocity bounds from soft tau (p) and X(p) data, *Geophysical Journal of the Royal Astronomical Society*, *89*, 987–996.

7. Orcutt, J.A., R.L. Parker, P.B. Stark, and J.D. Garmany, 1988. Comment concerning “A method of obtaining a velocity-depth envelope from wide-angle seismic data” by R. Mithal and J.B. Diebold. *Geophysical Journal*, 95, 209–212.
8. Stark, P.B. and R.L. Parker, 1988. Correction to “Velocity bounds from statistical estimates of $\tau(p)$ and $X(p)$.” *Journal of Geophysical Research*, 93, 13,821–13,822.
9. Donoho, D.L. and P.B. Stark, 1989. Uncertainty principles and signal recovery. *SIAM Journal of Applied Mathematics*, 49, 906–931.
10. Stark, P.B., 1992. Affine minimax confidence intervals for a bounded Normal mean, *Statistics and Probability Letters*, 13, 39–44.
11. Stark, P.B., 1992. Minimax confidence intervals in geomagnetism, *Geophysical Journal International*, 108, 329–338.
12. Stark, P.B., 1992. Inference in infinite-dimensional inverse problems: Discretization and duality, *Journal of Geophysical Research*, 97, 14,055–14,082. Reprint:
<http://www.agu.org/journals/jb/v097/iB10/92JB00739/92JB00739.pdf>
13. Donoho, D.L. and P.B. Stark, 1993. A note on rearrangements, spectral concentration, and the zero-order prolate spheroidal wavefunction. *IEEE Transactions on Information Theory*, 39, 257–260.
14. Pulliam, R.J. and P.B. Stark, 1993. Bumps on the core-mantle boundary: Are they facts or artifacts?, *Journal of Geophysical Research*, 98, 1943–1956.
15. Stark, P.B. and N.W. Hengartner, 1993. Reproducing Earth’s kernel: Uncertainty of the shape of the core-mantle boundary from PKP and PcP travel-times, *Journal of Geophysical Research*, 98, 1957–1972.
16. Stark, P.B., 1993. Uncertainty of the COBE quadrupole detection, *Astrophysical Journal Letters*, 408, L73–L76.
17. Stark, P.B. and D.I. Nikolayev, 1993. Toward tubular tomography, *Journal of Geophysical Research*, 98, 8095–8106.

18. Constable, C.G., R.L. Parker, and P.B. Stark, 1993. Geomagnetic field models incorporating frozen-flux constraints, *Geophysical Journal International*, *113*, 419–433.
19. Gough, D.O. and P.B. Stark, 1993. Are the 1986–1988 changes in solar free-oscillation frequency splitting significant?, *Astrophysical Journal*, *415*, 376–382.
20. Stark, P.B., M.M. Herron, and A. Matteson, 1993. Empirically mini-max affine mineralogy estimates from Fourier-transform infrared spectroscopy data using a decimated wavelet basis, *Applied Spectroscopy*, *47*, 1820–1829.
21. Pulliam, R.J. and P.B. Stark, 1994. Confidence regions for mantle heterogeneity, *Journal of Geophysical Research*, *99*, 6931–6943.
22. Genovese, C.R., P.B. Stark, and M.J. Thompson, 1995. Uncertainties for Two-Dimensional Models of Solar Rotation from Helioseismic Eigenfrequency Splitting, *Astrophysical Journal*, *443*, 843–854.
23. Stark, P.B. and R.L. Parker, 1995. Bounded-variable least-squares: an algorithm and applications, *Computational Statistics*, *10*, 129–141. Preprint:
<http://statistics.berkeley.edu/Preprints/bvls.pdf>
24. Hengartner, N.W. and P.B. Stark, 1995. Finite-sample confidence envelopes for shape-restricted densities, *The Annals of Statistics*, *23*, 525–550.
25. Stark, P.B., 1995. Reply to Comment by Morelli and Dziewonski, *Journal of Geophysical Research*, *100*, 15,399–15,402.
26. Gough, D.O., T. Sekii, and P.B. Stark, 1996. Inferring spatial variation of solar properties from helioseismic data, *Astrophysical Journal*, *459*, 779–791.
27. Benjamini, Y. and Stark, P.B., 1996. Non-equivariant simultaneous confidence intervals less likely to contain zero, *Journal of the American Statistical Association*, *91*, 329–337.

28. Hill, F., P.B. Stark, R.T. Stebbins, E.R. Anderson, H.M. Antia, T.M. Brown, T.L. Duvall, Jr., D.A. Haber, J.W. Harvey, D.H. Hathaway, R. Howe, R. Hubbard, H.P. Jones, J.R. Kennedy, S.G. Korzenik, A.G. Kosovichev, J.W. Leibacher, K.G. Libbrecht, J.A. Pinar, E.J. Rhodes, Jr., J. Schou, M.J. Thompson, S. Tomczyk, C.G. Toner, R. Toussaint, and W.E. Williams, 1996. The solar acoustic spectrum and eigenmode parameters, *Science*, *272*, 1292–1295.
29. Thompson, M.J., J. Toomre, E.R. Anderson, H.M. Antia, G. Berthomieu, D. Burtonclay, S.M. Chitre, J. Christensen-Dalsgaard, T. Corbard, M. DeRosa, C.R. Genovese, D.O. Gough, D.A. Haber, J.W. Harvey, F. Hill, R. Howe, S.G. Korzenik, A.G. Kosovichev, J.W. Leibacher, F.P. Pijpers, J. Provost, E.J. Rhodes, Jr., J. Schou, T. Sekii, P.B. Stark, and P.R. Wilson, 1996. Differential rotation and dynamics of the solar interior, *Science*, *272*, 1300–1305.
30. Stark, P.B., 1996. A few considerations for ascribing statistical significance to earthquake predictions, *Geophysical Research Letters*, *23*, 1399–1402.
31. Evans, S.N., and P.B. Stark, 1996. Shrinkage estimators, Skorokhod’s problem, and stochastic integration by parts, *The Annals of Statistics*, *24*, 809–815.
32. Genovese, C.R. and P.B. Stark, 1996. Data Reduction and Statistical Consistency in Linear Inverse Problems, *Physics of the Earth and Planetary Interiors*, *98*, 143–162.
33. Stark, P.B., 1997. Earthquake prediction: the null hypothesis, *Geophysical Journal International*, *131*, 495–499.
34. Benjamini, Y., Y. Hochberg, and P.B. Stark, 1998. Confidence Intervals with more Power to determine the Sign: Two Ends constrain the Means, *Journal of the American Statistical Association*, *93*, 309–317.
35. Tenorio, L., P.B. Stark, and C.H. Lineweaver, 1999. Bigger uncertainties and the Big Bang, *Inverse Problems*, *15*, 329–341.
36. Stark, P.B., 1999. Geophysics, Statistics in, in *Encyclopedia of Statistical Sciences, Update Volume 3*, S. Kotz, C.B. Read, and D.L. Banks,

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37. Komm, R., Y. Gu, P.B. Stark, and I. Fodor, 1999. Multitaper Spectral Analysis and Wavelet Denoising Applied to Helioseismic Data, *Astrophysical Journal*, 519, 407–421.
 38. Freedman, D.A., and P.B. Stark, 1999. The swine flu vaccine and Guillain-Barré syndrome: a case study in relative risk and specific causation, *Evaluation Review*, 23, 619–647. Preprint:
<http://statistics.berkeley.edu/~census/546.pdf>
 39. Fodor, I. and P.B. Stark, 2000. Multitaper Spectrum Estimation for Time Series with Gaps, *IEEE Transactions on Signal Processing*, 48, 3472–3483.
 40. Freedman, D.A., P.B. Stark, and K.W. Wachter, 2001. A probability model for census adjustment, *Mathematical Population Studies*, 9, 165–180.
 41. D.A. Freedman and P.B. Stark, 2001. The swine flu vaccine and Guillain-Barré syndrome. *Law and Contemporary Problems*, 64, 49–62. Reprint:
[http://www.law.duke.edu/shell/cite.pl?64+Law+&+Contemp.+Probs.+49+\(Autumn+2001\)](http://www.law.duke.edu/shell/cite.pl?64+Law+&+Contemp.+Probs.+49+(Autumn+2001))
 42. Evans, S.N. and P.B. Stark, 2002. Inverse Problems as Statistics, *Inverse Problems*, 18, R55–R97. Invited. Reprint:
http://iopscience.iop.org/0266-5611/18/4/201/pdf/0266-5611_18_4_201.pdf
 43. Stark, P.B. and D.A. Freedman, 2003. What is the Chance of an Earthquake? in *Earthquake Science and Seismic Risk Reduction*, F. Mulargia and R.J. Geller, eds., NATO Science Series IV: Earth and Environmental Sciences, v. 32, Kluwer, Dordrecht, The Netherlands, 201–213. Invited. Preprint:
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 44. Stark, P.B., 2003. Capture-recapture. *Encyclopedia of Social Science Research Methods*, Sage Publications, Thousand Oaks, CA. Invited.

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<http://statistics.berkeley.edu/~stark/Preprints/capt2002.pdf>

45. Stark, P.B., 2003. Census Adjustment. *Encyclopedia of Social Science Research Methods*, Sage Publications, Thousand Oaks, CA. Invited. Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/adj2002.pdf>
46. Schafer, C.M. and P.B. Stark, 2004. Using what we know: inference with physical constraints. *Proceedings of the Conference on Statistical Problems in Particle Physics, Astrophysics and Cosmology PHYSTAT2003*, L. Lyons, R. Mount and R. Reitmeyer, eds., Stanford Linear Accelerator Center, Menlo Park, CA, 25–34.
47. Evans, S.N., B. Hansen, and P.B. Stark, 2005. Minimax Expected Measure Confidence Sets for Restricted Location Parameters, *Bernoulli*, 11, 571–590. Also Tech. Rept. 617, Dept. Statistics Univ. Calif Berkeley (May 2002, revised May 2003). Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/617.pdf>
48. Divenyi, P., P.B. Stark, and K. Haupt, 2005. Decline of Speech Understanding and Auditory Thresholds in the Elderly, *Journal of the Acoustical Society of America*, 118, 1089–1100.
49. Freedman, D.A. and P.B. Stark, 2007. Ecological Inference, in *1 Encyclopedia of Law and Society: American and Global Perspectives*, 447–448, David S. Clark, ed., Sage Publications. Invited. Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/ecoInf07.txt>
50. Luen, B. and P.B. Stark, 2008. Testing Earthquake Predictions. *IMS Lecture Notes—Monograph Series. Probability and Statistics: Essays in Honor of David A. Freedman*, 302–315. Institute for Mathematical Statistics Press, Beachwood, OH. Invited. Reprint:
<http://arxiv.org/abs/0805.3032>
51. Stark, P.B., 2008. The effectiveness of Internet content filters, *I/S: A Journal of Law and Policy for the Information Society*, 4, 411–429.

Reprint: <http://www.is-journal.org/V04I02/Stark.pdf>
Preprint: <http://statistics.berkeley.edu/~stark/Preprints/filter07.pdf>

52. Stark, P.B., 2008. Conservative statistical post-election audits, *The Annals of Applied Statistics*, 2, 550–581. Reprint: <http://arxiv.org/abs/0807.4005>
53. Stark, P.B., 2008. A Sharper Discrepancy Measure for Post-Election Audits, *The Annals of Applied Statistics*, 2, 2008, 982–985. Reprint: <http://arxiv.org/abs/0811.1697>
54. Stark, P.B., 2008. Generalizing resolution, *Inverse Problems*, 24, 034014. Invited; selected for 2008 Highlights for *Inverse Problems*
Reprint: <http://statistics.berkeley.edu/~stark/Preprints/resolution07.pdf>
55. Schafer, C.M., and P.B. Stark, 2009. Constructing Confidence Sets of Optimal Expected Size. *Journal of the American Statistical Association*, 104, 1080–1089. Reprint: <http://statistics.berkeley.edu/~stark/Preprints/schaferStark09.pdf>
56. Berlow, E.L., J.A. Dunne, N.D. Martinez, P.B. Stark, R.J. Williams and U. Brose, 2009. Simplicity on the other side of ecological complexity. *Proceedings of the National Academy of Sciences*, 106, 187–219. Reprint: <http://www.pnas.org/content/106/1/187.full.pdf+html>
57. Hall, J.L., L.W. Miratrix, P.B. Stark, M. Briones, E. Ginnold, F. Oakley, M. Peaden, G. Pellerin, T. Stanionis and T. Webber, 2009. Implementing Risk-Limiting Audits in California, *2009 Electronic Voting Technology Workshop/Workshop on Trustworthy Elections (EVT/WOTE '09)*. Preprint: <http://arxiv.org/abs/0905.4691>, http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1411219.
SSRN's Top Ten download list for ERN: Models of Political Processes: Rent-Seeking, Elections, Legislatures, & Voting Behavior

58. Stark, P.B., 2009. CAST: Canvass Audits by Sampling and Testing. *IEEE Transactions on Information Forensics and Security: Special Issue on Electronic Voting*, 4, 708–717. Reprint:
<http://statistics.berkeley.edu/~stark/Preprints/cast09.pdf>
59. Miratrix, L.W. and P.B. Stark, 2009. Election Audits using a Trinomial Bound. *IEEE Transactions on Information Forensics and Security: Special Issue on Electronic Voting*, 4, 974–981. Reprint:
<http://statistics.berkeley.edu/~stark/Preprints/trinomial09.pdf>
60. Stark, P.B., 2009. Risk-limiting post-election audits: P -values from common probability inequalities. *IEEE Transactions on Information Forensics and Security: Special Issue on Electronic Voting*, 4, 1005–1014. Reprint:
<http://statistics.berkeley.edu/~stark/Preprints/pvalues09.pdf>
61. Stark, P.B., 2009. Efficient post-election audits of multiple contests: 2009 California tests. Refereed paper presented at the 2009 Conference on Empirical Legal Studies. Preprint:
<http://ssrn.com/abstract=1443314>
62. Stark, P.B., 2010. Risk-Limiting Vote-Tabulation Audits: The Importance of Cluster Size. *Chance*, 23(3), 9–12. Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/auditingChance10.pdf>
63. Stark, P.B., 2010. Super-simple simultaneous single-ballot risk-limiting audits. *2010 Electronic Voting Technology Workshop/Workshop on Trustworthy Elections (EVT/WOTE '10)*, D. Jones, J.J. Quisquater and E.K. Rescorla, eds. Reprint:
http://www.usenix.org/events/evtwote10/tech/full_papers/Stark.pdf
64. Stark, P.B. and L. Tenorio, 2010. A Primer of Frequentist and Bayesian Inference in Inverse Problems. In *Large Scale Inverse Problems and Quantification of Uncertainty*, Biegler, L., G. Biros, O. Ghattas, M. Heinkenschloss, D. Keyes, B. Mallick, L. Tenorio, B. van Bloemen Waanders and K. Willcox, eds. John Wiley and Sons,

- NY. Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/freqBayes09.pdf>
65. Stark, P.B., 2010. Null and Vetoed: “Chance Coincidence”? *Chance*, 23(4), 43–46. Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/acrosticVeto09.htm>
66. Benaloh, J., D. Jones, E. Lazarus, M. Lindeman, and P.B. Stark, 2011. SOBA: Secrecy-preserving Observable Ballot-level Audit. *2011 Electronic Voting Technology Workshop/Workshop on Trustworthy Elections (EVT/WOTE '11)*. Preprint:
<http://arxiv.org/abs/1105.5803>
67. Higgins, M.J., R.L. Rivest and P.B. Stark, 2011. Sharper p -values for Stratified Post-Election Audits. *Statistics, Politics, and Policy*, 2(1), Article 7. Reprint:
<http://www.bepress.com/spp/vol2/iss1/7>
68. Shearer, P.M. and P.B. Stark, 2012. The global risk of big earthquakes has not recently increased. *Proceedings of the National Academy of Sciences*, 109(3), 717–721. doi: 10.1073/pnas.1118525109. (Commentary by G. Beroza, *PNAS* 2012, 109(3) 651–652. doi: 10.1073/pnas.1120744109.) Reprint:
<http://www.pnas.org/content/early/2011/12/12/1118525109.full.pdf+html>
69. Luen, B. and P.B. Stark, 2012. Poisson tests of declustered catalogs. *Geophysical Journal International*, to appear.
<http://statistics.berkeley.edu/~stark/Preprints/decluster11.pdf>

Books and Edited Volumes

70. Stark, P.B., 1997. *SticiGui: Statistics Tools for Internet and Classroom Instruction with a Graphical User Interface*.
<http://statistics.berkeley.edu/~stark/SticiGui>

71. Freedman, D.A., 2009. *Statistical Models and Causal Inference: A Dialog with the Social Sciences*, D. Collier, J.S. Sekhon and P.B. Stark, eds., Cambridge University Press, New York.

Technical Reports and Unrefereed Publications

72. Stark, P.B., 1988. Strict bounds and applications. in *Some Topics on Inverse Problems*, P.C. Sabatier, ed., World Scientific, Singapore.
73. Donoho, D.L. and P.B. Stark, 1988. Rearrangements and Smoothing, Tech. Rept. 148, Dept. Stat., Univ. Calif. Berkeley.
74. Donoho, D.L. and P.B. Stark, 1989. Recovery of a Sparse Signal When the Low Frequency Information is Missing, Tech. Rept. 179, Dept. Statistics, Univ. Calif. Berkeley.
75. Stark, P.B., 1990. Rigorous computer solutions to infinite-dimensional inverse problems. in *Inverse Methods in Action*, P.C. Sabatier, ed., Springer-Verlag. 462–467.
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77. Hengartner, N.W. and P.B. Stark, 1992. Confidence bounds on the probability density of aftershocks, Tech. Rept. 352, Dept. Statistics, Univ. Calif. Berkeley.
78. Stark, P.B., 1992. The Cosmic Microwave Background and Earth's Core-Mantle Boundary: A Tale of Two CMB's, Tech. Rept. 371, Dept. Statistics, Univ. Calif. Berkeley.
79. Genovese, C. and P.B. Stark, 1993. l_1 spectral estimation: Algorithms and tests of super-resolution, in *GONG 1992: Seismic Investigations of the Sun and Stars, Proc. Astr. Soc. Pac. Conf. Ser.*, **42**, T. Brown, ed., 453–456.
80. Gough, D.O. and P.B. Stark, 1993. The significance of changes in solar free-oscillation splitting from 1986–1990, in *GONG 1992: Seismic*

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81. Stark, P.B., 1994. Simultaneous Confidence Intervals for Linear Estimates of Linear Functionals, Tech. Rept. 417, Dept. Statistics, Univ. Calif. Berkeley.
82. Sekii, T., C.R. Genovese, D.O. Gough, and P.B. Stark, 1995. Observational constraints on the internal solar angular velocity, in *Fourth SOHO Workshop: Helioseismology*, J.T. Hoeksema, V. Domingo, B. Fleck and B. Battrick, eds., ESA Publications Division SP-376, Noordwijk, Volume 2, 279–283.
83. Stark, P.B., 1997. Data Sampling Rate Reduction for the OERSTED Geomagnetic Satellite.
<http://statistics.berkeley.edu/~stark/Preprints/0ersted/writeup.htm>
84. Fodor, I.K., J.G. Berryman, and P.B. Stark, 1997. Comparison of Autoregressive and Multitaper Spectral Analysis for Long Time Series, *Stanford Exploration Project*, 95, 331–355.
85. Borrill, J., and P.B. Stark, 1998. A fast method for bounding the CMB power spectrum likelihood function.
86. Komm, R.W., Y. Gu, F. Hill, P.B. Stark, and I.K. Fodor, 1998. Multitaper Spectral Analysis and Wavelet Denoising Applied to Helioseismic Data, *Proc. Tenth Cambridge Workshop on Cool Stars, Stellar Systems and the Sun*, ASP Conference Series, 154, CDR 783–790.
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88. Komm, R.W., E. Anderson, F. Hill, R. Howe, I. Fodor, and P. Stark, 1998. Multitaper analysis applied to a 3-month time series, *Proceedings of the SOHO 6/GONG 98 Workshop, 'Structure and Dynamics of the*

Interior of the Sun and Sun-like Stars,' Boston, USA, 1–4 June 1998, ESA SP–418, 257–260.

89. Fodor, I.K. and P.B. Stark, 1999. Multitaper Spectrum Estimates for Time Series with Missing Values, *Computing Science and Statistics, 31: Models, Predictions, and Computing*. K. Berk and M. Pourahmadi, eds., 383–387.
90. Stark, P.B., 1999. The 1990 and 2000 Census Adjustment Plans, Tech. Rept. 550, Dept. Statistics, Univ. Calif. Berkeley.
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98. Higdon, D., R. Klein, M. Anderson, M. Berliner, C. Covey, O. Ghattas, C. Graziani, S. Habib, M. Seager, J. Sefcik, P. Stark, and J. Stewart, 2010. Panel Report on Uncertainty Quantification and Error Analysis, in *Scientific Grand Challenges in National Security: The Role of Computing at the Extreme Scale*, U.S. Department of Energy Office of Advanced Scientific Computing Research and National Nuclear Security Administration.
http://science.energy.gov/~media/ascr/pdf/program-documents/docs/Nnsa_grand_challenges_report.pdf
99. McLaughlin, K., and P.B. Stark, 2011. Workload Estimates for Risk-Limiting Audits of Large Contests.
<http://statistics.berkeley.edu/~stark/Preprints/workload11.pdf>

Editorials, Reviews, and Comments

100. Stark, P.B., 2001. Review of *Who Counts?* by Margo J. Anderson and Stephen E. Fienberg, *Journal of Economic Literature*, **XXXIX**, 593–595. Invited.
101. Tenorio, L., E. Haber, P.B. Stark, D. Cox, O. Ghattas and W.W. Symes, 2008. Guest editors' introduction to the special section on statistical and computational issues in inverse problems, *Inverse problems*, *24*, 034001. Reprint:
http://www.iop.org/EJ/article/0266-5611/24/3/034001/ip8_3_034001.pdf
102. Stark, P.B., 2008. Obituary: David A. Freedman, *IMS Bulletin*, *38*, 10–11. Preprint:

<http://statistics.berkeley.edu/~stark/Preprints/daf0bituary.htm>

103. Collier, D., J.S. Sekhon and P.B. Stark, 2009. Preface to David A. Freedman, 2009. *Statistical Models: Theory and Practice, Revised edition*, Cambridge University Press, New York.
104. Ash, A., S. Pierson and P.B. Stark, 2009. Thinking outside the urn: Statisticians make their marks on U.S. Ballots. *Amstat News*, 384. 37–40. Reprint:
http://www.amstat.org/outreach/pdfs/SP_ANJun09.pdf

Manuscripts in Review

105. Benjamini, Y., V. Madar, and P.B. Stark, 2011. Simultaneous Confidence Intervals with more Power to Determine Signs. Submitted to *Biometrika*. Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/qc11.pdf>
106. Huttunen, J.M.J., and P.B. Stark, 2011. Cheap contouring of costly functions: The Pilot Approximation Trajectory Algorithm. Submitted. Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/contour11.pdf>
107. Lindeman, M. and P.B. Stark, 2011. A Gentle Introduction to Risk-Limiting Audits. Submitted to *IEEE Computing Now*. Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/gentle11.pdf>
108. Stark, P.B., and D.A. Wagner, 2012. Evidence-Based Elections. Submitted to *IEEE Computing Now*. Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/evidenceVote12.pdf>
109. Stark, P.B., 2012. Constraints versus priors. Submitted to PSAM 11 & ESREL 2012. Preprint:
<http://statistics.berkeley.edu/~stark/Preprints/psam11.pdf>

Working Drafts

110. Stark, P.B., 2011. Audits Conducted Under California AB 2023 in 2011. Working draft.
http://statistics.berkeley.edu/~stark/Preprints/ab2023_2011.pdf

Other Publications

111. Testimony before U.S. House of Representatives Subcommittee on the Census, 5 May 1998.
<http://statistics.berkeley.edu/~stark/Census/house-5-5-98-pbs.pdf>
112. Response to 25 Questions from Representative C. Maloney, Ranking Minority Member, U.S. House of Representatives Subcommittee on the Census, 13 May 1998.
<http://statistics.berkeley.edu/~stark/Census/maloney-5-13-98-pbs.pdf>
113. Stark, P.B., 1999. Letter to the Editor of USA Today regarding Sampling to Adjust the 2000 Census, 19 January. (original version: <http://statistics.berkeley.edu/~stark/Census/usa0pEd99.htm>)
114. Audit working group, 2009. Data requirements for vote-tabulation audits: Statement to NIST, ElectionAudits.org.
<http://electionaudits.org/niststatement>
115. Hall, J.L., P.B. Stark, H.E. Brady, and J.S. Sekhon, 2009. Comments on the CA SoS' Precinct Level Data Pilot Project.
<http://statistics.berkeley.edu/~stark/Preprints/CACountyData09.pdf>
116. Testimony before California State Assembly Committee on Elections and Redistricting, 20 April 2010.
<http://statistics.berkeley.edu/~stark/Preprints/ab2023-assembly-20-4-10.htm>

117. Testimony before California State Senate Committee on Elections, Reapportionment and Constitutional Amendments, 15 June 2010.
<http://statistics.berkeley.edu/~stark/Preprints/ab2023-senate-15-6-10.htm>
118. Testimony proffered to Judge Ira Warshawsky, New York Supreme Court, 4 December 2010.
<http://statistics.berkeley.edu/~stark/Preprints/nysd7-4-12-10.htm>

Software

1. Stark, P.B., and R.L. Parker, 1994. BVLS (Bounded-Variable Least Squares), STATLIB (Carnegie-Mellon University ftp server)
<http://lib.stat.cmu.edu/general/bvls>
2. Java Applets for Statistics
<http://statistics.berkeley.edu/~stark/Java/Html/index.htm>
3. Tools for election audits
<http://statistics.berkeley.edu/~stark/Vote/auditTools.htm>
4. Miscellaneous software:
<http://statistics.berkeley.edu/~stark/Code>

Selected Presentations

1. Evidence-Based Elections: Colorado's Future?, Colorado Elections Best Practices & Vision Commission, Denver, CO, 14 December 2011.
<http://statistics.berkeley.edu/~stark/Seminars/co-11-12-14.pdf>
Audio: <mms://pub.sos.state.co.us/20111214130705B>
2. From the Virtual Trenches, *Letters and Sciences Colloquium on Undergraduate Education*: "The Virtual University—Challenges and Opportunities," University of California, Berkeley, CA, 16 November 2011.
<http://ls.berkeley.edu/stories/archive/fall-2011->

colloquium-undergraduate-education-0
<http://statistics.berkeley.edu/~stark/Seminars/onlineEd11.pdf>

Video: <http://www.youtube.com/watch?v=40vGDuPSJso>

3. Earthquake Clustering and Declustering, Institute de Physique du Globe de Paris, Paris, France, 4 October 2011.
<http://statistics.berkeley.edu/~stark/Seminars/ipg11.pdf>
4. Fears, Predictions, Hopes & Plans, *Panel on the Future*, Election Integrity: Past, Present, and Future, Caltech/MIT Voting Technology Project, Cambridge, MA, 1 October.
<http://statistics.berkeley.edu/~stark/Seminars/mit11.pdf>
Video:
<http://techtv.mit.edu/collections/vtp/videos/14802-eippf-2011-3-the-future>
5. 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.
<http://statistics.berkeley.edu/~stark/Seminars/evtRLA11.pdf>
6. 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.
<http://statistics.berkeley.edu/~stark/Seminars/evtSoba11.pdf>
7. The Effectiveness of Internet Content Filtering, Workshop on Free and Open Communication on the Internet (FOCI '11), USENIX, San Francisco, CA, 8 August 2011.
<http://statistics.berkeley.edu/~stark/Seminars/foci11.pdf>
8. SticiGui, Onsophic, and Statistics W21, Panel on online instruction, Joint Statistical Meetings, Miami Beach, FL, 31 August 2011.
<http://statistics.berkeley.edu/~stark/Seminars/jsm11.pdf>
9. Risk Limiting Audits, Colorado Secretary of State, Colorado Risk Limiting Audit (CORLA) Kick-off Meeting, Denver, CO, 16 June

2011.

<http://statistics.berkeley.edu/~stark/Seminars/co-11-6-16.pdf>

10. Simultaneous Confidence Intervals with more Power to Determine Signs, Conference in honor of Erich Lehmann, Rice University, Houston, TX, 12 May 2011.
<http://statistics.berkeley.edu/~stark/Seminars/lehmann11.pdf>
11. Close enough for government [to] work, Verified Voting Foundation, Palo Alto, CA, 27 April 2011.
<http://statistics.berkeley.edu/~stark/Seminars/vv-11-4-27.pdf>
12. Close enough for government [to] work: Risk-limiting post-election audits, Berkeley-Stanford Joint Statistics Colloquium, Stanford University, Stanford, CA, 12 April 2011.
<http://statistics.berkeley.edu/~stark/Seminars/stanford11.pdf>
13. 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.
<http://statistics.berkeley.edu/~stark/Seminars/reed11.pdf>
14. Simultaneous Confidence Intervals with more Power to Determine Signs, Department of Mathematics, Reed College, Portland, OR, 10 March 2011.
<http://statistics.berkeley.edu/~stark/Seminars/reed11.pdf>
15. Close enough for government work: Risk-Limiting Post-Election Audits, Wharton Statistics Department, University of Pennsylvania, Philadelphia, PA, 26 January 2011.
<http://statistics.berkeley.edu/~stark/Seminars/penn11.pdf>
16. Audits: The After-Math of Election Reform, Conference on Innovative Electoral Reforms and Strategies, Washington, DC, 10–11 December 2010.

<http://statistics.berkeley.edu/~stark/Seminars/innovative10.pdf>

17. Risk-Limiting Post-Election Audits: Statistics, Policy, and Politics, Department of Statistics, Rice University, Houston, TX, 1 November 2010.
<http://statistics.berkeley.edu/~stark/Seminars/rice10.pdf>
18. Are Declustered Earthquake Catalogs Poisson?, Department of Statistics, Pennsylvania State University, State College, PA, 14 October 2010.
<http://statistics.berkeley.edu/~stark/Seminars/psu10.pdf>
19. AB 2023 and Risk-Limiting Audits, California Association of Clerks and Election Officials Legislative Committee Meeting, 14 May 2010.
<http://statistics.berkeley.edu/~stark/Seminars/caceo-legis10.pdf>
20. 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.
<http://statistics.berkeley.edu/~stark/Seminars/ewtote10.pdf>
21. Justice and inequalities, Department of Statistics and Operations Research, Tel Aviv University, Tel Aviv, Israel, 13 April 2010.
<http://statistics.berkeley.edu/~stark/Seminars/tau10.pdf>
22. Size Matters: Smaller Batches Yield More Efficient Risk-Limiting Audits, Small-Batch Audit Meeting, Washington, DC, 27–28 March 2010.
<http://statistics.berkeley.edu/~stark/Seminars/smallBatch10.pdf>
23. Sexy Audits and the Single Ballot, Election Verification Network (EVN) annual conference, Washington, DC, 25–27 March 2010.
<http://statistics.berkeley.edu/~stark/Seminars/evn10.pdf>
24. Simple, Affordable, Post-Election Audits, Institute for Mathematical Behavioral Sciences, University of California, Irvine, CA, 7 January 2010.
<http://statistics.berkeley.edu/~stark/Seminars/uci10.pdf>

25. 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.
<http://statistics.berkeley.edu/~stark/Seminars/cels09.pdf>
26. Risk-Limiting Audits, Audit Working Meeting, American Statistical Association, Arlington, VA, 23–24 October 2009.
<http://statistics.berkeley.edu/~stark/Seminars/asa09.pdf>
27. 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.
28. Some Ado about (mostly) Nothing: zero-dominated data, Alameda County Workshop on Avian Mortality at Altamont, Emeryville, CA, 22 September 2009.
<http://statistics.berkeley.edu/~stark/Seminars/altamont09.pdf>
29. Freedman’s Dialogue with the Social Sciences, 2009 Joint Statistical Meetings, Washington, DC, 5 August 2009.
30. 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.
31. 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://statistics.berkeley.edu/~stark/Seminars/polMeth09.pdf>
32. Risk-Limiting Post-Election Audits, Department of Statistics, University of California, Berkeley, CA, 31 March 2009.
<http://statistics.berkeley.edu/~stark/Seminars/ucb09.pdf>
33. Uncertainty Quantification Qualification, Lawrence Livermore National Laboratory, Livermore, CA, 26 March 2009.
<http://statistics.berkeley.edu/~stark/Seminars/llnl09.pdf>

34. 2008 Risk-limiting Audits in California, The Pew Charitable Trusts Audit Workshop, Salt Lake City, UT, 23–24 February 2009.
<http://statistics.berkeley.edu/~stark/Seminars/pew09.pdf>
35. Election Auditing and Nonparametric Confidence Bounds, Department of Mathematics, Reed College, Portland, OR, 20 November 2008.
<http://statistics.berkeley.edu/~stark/Seminars/reed08.pdf>
36. Risk-Limiting Post-Election Audits, Department of Statistics, Kansas State University, Manhattan, KS, 2 October 2008.
<http://statistics.berkeley.edu/~stark/Seminars/ksu08.pdf>
37. 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.
<http://statistics.berkeley.edu/~stark/Seminars/apsa08.pdf>
38. Invited panelist, Joint Statistical Meetings session, Statistical Measures Can Help Restore Confidence in U.S. Elections, Denver, CO, 3–7 August 2008.
39. 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.
40. Statistical Audits: Why and How Much?, 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.
<http://statistics.berkeley.edu/~stark/Seminars/caceo08.pdf>
41. Panel on Online Learning, UC21st Century, Teaching, Learning and Technology: Past, present and future, University of California, Davis, 20–21 June 2008.
42. SticiGui—What is it?, Department of Statistics, University of California, Los Angeles, CA, 29 May 2008.
<http://statistics.berkeley.edu/~stark/Seminars/ucla08.pdf>

43. Election Auditing: How Much Is Enough?, Mathematical Sciences Research Institute, Annual Meeting of Academic Sponsors and Steering Committee, Berkeley, CA, 7 March 2008.
<http://statistics.berkeley.edu/~stark/Seminars/msri08.pdf>
44. Panelist, 2007 Post Election Audit Summit, Minneapolis, MN, 25–27 October 2007.
<http://statistics.berkeley.edu/~stark/Seminars/peaSummit07.pdf>
45. Urning Voter Confidence, Department of Mathematics, Reed College, Portland, OR, 11 October 2007.
<http://statistics.berkeley.edu/~stark/Seminars/reed07.pdf>
46. Frequentist Methods in Inverse Problems, Sandia CSRI Workshop on Large-Scale Inverse Problems and Quantification of Uncertainty, Santa Fe, NM, 10–12 September 2007.
<http://statistics.berkeley.edu/~stark/Seminars/sandia07.odp>
47. How Statistics Helps, 9th US Congress on Computational Mechanics, San Francisco, CA, 22–26 July 2007.
<http://statistics.berkeley.edu/~stark/Seminars/compMech07.odp>
48. Nonparametrics: nonpareil?, Veterans Administration Hospital, Neuropsychology Brown Bag Lunch, Martinez, CA, 15 May 2007.
<http://statistics.berkeley.edu/~stark/Seminars/ebire-5-15-07.pdf>
49. Shaking Down Earthquake Predictions, Department of Statistics, University of California, Davis, 25 May 2006
<http://statistics.berkeley.edu/~stark/Seminars/ucd-5-25-06.pdf>
50. 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_Statistical_Inverse_Problems

51. Resolution in Nonlinear and Constrained Inverse Problems, Workshop on Computational and Mathematical Geoscience, Colorado School of Mines, Golden CO, 15–17 June 2005.
52. Quantifying uncertainty in inverse problems, Summer school: Mathematical Geophysics and Uncertainty in Earth Models, Colorado School of Mines, Golden CO, 14–25 June 2004.
<http://statistics.berkeley.edu/~stark/Seminars/mines04.pdf>
53. 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://statistics.berkeley.edu/~stark/Seminars/bars04.ppt>
54. 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://statistics.berkeley.edu/~stark/Seminars/ipam03.ppt>
55. 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
<http://statistics.berkeley.edu/~stark/Seminars/phyStat03.pdf>
56. 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.
<http://statistics.berkeley.edu/~stark/Seminars/bohr02.ppt>
57. 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.
<http://statistics.berkeley.edu/~stark/Seminars/ima02.ppt>

58. 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.
<http://statistics.berkeley.edu/~stark/Seminars/wes02.ppt>
59. 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.
60. Inverse Problems and Data Errors, New Developments in Astrophysical Fluid Dynamics, Chateau de Mons, Caussens, France, 25–29 June 2001.
61. Data Reduction and Inverse Problems in Helioseismology, Workshop “Statistics of inverse problems,” Institut Henri Poincaré, Paris, France, 28–29 May 2001.
62. Why Statistics is worth the Stigma, Letters and Sciences Faculty Forum, University of California, Berkeley, CA, 23 April 2001.
<http://statistics.berkeley.edu/~stark/Seminars/stigma01.ppt>
63. Inverse Problems in Helioseismology, Second MaPhySto Workshop on Inverse Problems: Inverse problems from a Statistical Perspective, Aalborg, Denmark, 28–31 March 2001.
64. 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.
65. 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.
66. Invited Discussant, Workshop of the National Academy of Sciences Panel to Review the 2000 Census, Washington, D.C., 2–3 February 2000.

67. 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.
68. Lecturer, Mathematical Geophysics Summer School, Stanford University, Stanford, CA, 2–20 August 1999.
69. Less Asymptotic Tomography. 9th SOHO Workshop: Helioseismic Diagnostics of Solar Convection and Activity, Stanford University, Stanford, CA, 12–15 July 1999.
70. Panelist, Reinventing Undergraduate Education: Technology Enhanced Learning in the Sciences, Math, and Engineering, University of California, Berkeley, CA, 23 April 1999.
71. 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, 19–20 January 1999.
<http://statistics.berkeley.edu/~stark/Seminars/dsrc99.htm>
72. Sampling to Adjust the U.S. Census. Miller Institute for Basic Research in Science, University of California, Berkeley, CA, 12 January 1999.
<http://statistics.berkeley.edu/~stark/Seminars/mibrs99.htm>
73. A Statistician's Perspective on Census Adjustment, Berkeley Breakfast Club, Berkeley, CA, 5 December 1998.
<http://statistics.berkeley.edu/~stark/Seminars/bbc98.htm>
74. SticiGui: Melts in your Browser, not in your Brain, Joint Berkeley-Stanford Statistics Colloquium, Department of Statistics, Stanford University, Stanford, CA, 27 October 1998.
<http://statistics.berkeley.edu/~stark/Seminars/bsc98.htm>
75. 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.

76. 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.
77. 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.
<http://statistics.berkeley.edu/~stark/Seminars/ams-ims-siam-98.pdf>
78. Uncertainties for functions from incomplete, erroneous data. NSF/DOE Workshop on Uncertainty in Modeling, National Science Foundation, Arlington, VA, 11–12 June 1998.
<http://statistics.berkeley.edu/~stark/Seminars/nsf-doe-98.htm>
79. Sampling to adjust the 1990 Census for Undercount. U.S. House of Representatives Subcommittee on the Census, May 1998.
<http://statistics.berkeley.edu/~stark/Census/house-5-5-98-pbs.pdf>
80. Sounding the Sun: Helioseismology. 1998 American Association for the Advancement of Science (AAAS) Annual Meeting and Science Innovation Exposition, Philadelphia, PA., February 1998.
<http://statistics.berkeley.edu/~stark/Seminars/Aaas/helio.htm>
81. Data Sampling Rate Reduction for the OERSTED geomagnetic Satellite, Department of Geological Sciences, Stanford University, Stanford, CA, 28 July 1997.
<http://statistics.berkeley.edu/~stark/Preprints/Oersted/writeup.htm>
82. 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, 1997.
<http://statistics.berkeley.edu/~stark/Seminars/doesgod.htm>

83. Solving Problems for a Large Statistics Lecture Course using a Website
UC Berkeley Academic Senate Workshop on Classroom Technology,
Berkeley, CA, 1997.
<http://statistics.berkeley.edu/~stark/Seminars/itpTalk.htm>
84. Deficiencies of the simple theories, Local Helioseismology Workshop,
University of Cambridge, Cambridge, England, 1997.
85. CMB's, Royal Astronomical Society Ordinary Meeting, London, Eng-
land, 1996.
86. The Null Hypothesis, Royal Astronomical Society and Joint Associa-
tions for Geophysics discussion meeting on Assessment of Schemes for
Earthquake Prediction, London, England, 1996.
87. On the consistency of multiple inference in inverse problems using l_p
confidence sets, International Conference on Multiple Comparisons, Tel
Aviv, Israel, 1996.
88. Confidence Intervals in Inverse Problems, Conference in Honor of
George Backus, Institute for Geophysics and Planetary Physics, La
Jolla, CA, 1995.
89. The Need for Wave-Equation Travel-Time Tomography, Institute for
Mathematics and Its Applications, Conference on Tomography, Min-
neapolis, MN, 1995.
90. Inference, Prior Information, and Misfit Measures, Interdisciplinary In-
version Conference on Methodology, Computation and Integrated Ap-
plications, University of Aarhus, Aarhus, Denmark, 1995.
91. Optimization and Inference in Travel-Time Seismology, National Re-
search Council Board on Mathematical Sciences Symposium on Math-
ematical Sciences in Seismology, Washington, DC, 1995.
92. Prior Information and Confidence Intervals in Inverse Problems, In-
ternational Union of Geodesy and Geophysics Meeting, Boulder, CO,
1995.

93. 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.
94. Uncertainties in Travel-Time Seismology, SIAM/GAMM Symposium on Inverse Problems: Geophysical Applications, Fish Camp, CA, 1995.
95. Toward Tubular Tomography, 27th General Assembly of the Int. Assoc. of Seismology and Phys. of the Earth's Inter. (IASPEI), Wellington, New Zealand, 1994.
96. Alternative Data Analysis Techniques, Global Oscillation Network Group annual meeting, Los Angeles, CA, (presented by C. Genovese due to illness), 1994.
97. Mathematical Aspects of Integral Equation Inversion, Global Oscillation Network Group workshop, Sydney, Australia, 1994.
98. Conservative Finite-Sample Confidence Envelopes for Monotone and Unimodal Densities, Mathematisches Forschungsinstitut Oberwolfach meeting on Curves, Images and Massive Computation, Oberwolfach, Germany, 1993.
99. Discussant, Joint IMS/ASA/ENAR Meeting, Philadelphia, PA, 1993.
100. Uncertainty of the Quadrupole Component of the Cosmic Microwave Background, Israel Statistical Association Annual Meeting, Tel Aviv, 1993.
101. 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.
102. Conservative Numerical Uncertainty Estimates in Inverse Problems, SIAM 40th Anniversary Meeting, Los Angeles, CA, 1992.
103. Minimax Estimation in Geomagnetism, European Geophysical Society Annual Meeting, Wiesbaden, Germany, 1991.

104. 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.
105. Imagining Earth's Interior: Controversies in Seismology and Geomagnetism, Mathematical Sciences Research Institute Workshop on Statistical Methods in Imaging, Berkeley, CA, 1991.
106. 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.
107. Inference in Infinite-Dimensional Inverse Problems, Schmitt Institute for Physics of the Earth, Academy of Sciences of the USSR, Moscow, 1990.
108. Inference in Infinite-Dimensions: Discretization and Duality, Israel Statistical Association Annual Meeting, Jerusalem, 1990.
109. 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.
110. Sparsity-Constrained Deconvolution, International Union of Radio Science Meeting, Boulder, CO, 1989.
111. Discussant, Statistics, Earth and Space Sciences Meeting of the Bernoulli Society, Leuven, Belgium, 1989.
112. Rigorous Computer Solutions to Infinite-Dimensional Inverse Problems, rcp 264 problemes inverses, Montpellier, France, 1989.
113. Duality and Discretization Error, Conference on Mathematical Geophysics, Blanes, Spain, 1988.
114. Spectral extrapolation with positivity, International Union of Radio Science Meeting, Boulder, CO, 1987.

115. 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.
116. 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.

Invited Seminars

- California State University, Chico (Mathematics 1993)
- Colorado School of Mines (Dept. of Mathematical and Computer Sciences, 1997)
- Copenhagen University (Niels Bohr Institute for Astronomy, Physics, and Geophysics 1996)
- Hebrew University of Jerusalem (Statistics 1993)
- 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 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)

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

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

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 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)

Selected News Coverage

Geologists wonder if the Northwest is up next for a giant earthquake. Joe Rojas-Burke, *The Oregonian*, 21 December 2011. Syndicated in Middle East North Africa Financial Network. (Earthquake clustering)
http://www.oregonlive.com/environment/index.ssf/2011/12/geologists_wonder_if_the_north.html
http://www.menafn.com/qn_news_story.asp?storyid=%7B1ee57506-581b-4e99-a8be-41b9f35197e5%7D

Mega-quake clusters unlikely: study. Anna Salleh, ABC, 20 December 2011. (Earthquake clustering)
<http://www.abc.net.au/science/articles/2011/12/20/3394245.htm>

Rest Your Fears: Big Earthquakes Not on the Rise. Stephanie Pappas, LiveScience, 9 December 2011. Syndicated in MSNBC and Fox News 10 December 2011. (Earthquake clustering)
<http://www.livescience.com/17400-big-earthquakes-random.html>
http://www.msnbc.msn.com/id/45616503/ns/technology_and_science-science/#.TueIXGB8-oc
<http://www.foxnews.com/scitech/2011/12/10/rest-your-fears-big-earthquakes-not-on-rise/>

San Luis Obispo takes part in pilot program for ballot audits. Bethany Tucker, KSBY News, 12 September 2011. (Election auditing)
<http://www.ksby.com/news/san-luis-obispo-takes-part-in-pilot-program-for-ballot-audits/>

O.C. could see fewer election recounts. Martin Wisckol, Orange County Register, 6 May 2011. (Election auditing)
<http://totalbuzz.ocregister.com/2011/05/06/o-c-could-see-fewer-election-recounts/52659/>

Experts shouldn't be needed to call outcome of election. Albany Times Sun Union, 1 January 2011. (Election auditing)
<http://www.timesunion.com/opinion/article/Experts-shouldn-t-be-needed-to-call-outcome-of-930928.php>

Equation: Calculating Ballot Bungles is all about the P-Value. Julie Rehmeyer, *Wired*, November 2010, p.56. (Election auditing)

http://www.wired.com/magazine/2010/11/st_equation_votes/

UC Berkeley Professor's Auditing System Aims to Count Votes More Accurately. Claire Perlman, *Daily Californian*, 28 April 2010. (Election auditing)

<http://www.dailycal.org/article/109295/>

[uc_berkeley_professor_s_auditing_system_aims_to_co](http://www.dailycal.org/article/109295/uc_berkeley_professor_s_auditing_system_aims_to_co)

California Assembly committee endorses UC Berkeley statistician's election auditing method. Robert Sanders, Media Relations, *UCBerkeleyNews*, 26 April 2010. (Election auditing)

http://www.berkeley.edu/news/media/releases/2010/04/26_canvass.shtml

Judge upholds November election of Novato Sanitary District board. Brent Ainsworth, *The Marin Independent Journal*, 8 March 2010. (Contested election)

http://www.marinij.com/marinnews/ci_14636416

Novato Sanitary election fight rolls on. Jim Welte, *The Marin Independent Journal*, 23 February 2010. (Contested election)

http://www.marinij.com/marinnews/ci_14456925

Novato Sanitary board race tightens. Jim Welte, *The Marin Independent Journal*, 12 November 2009. (Election auditing)

http://www.marinij.com/election/ci_13773039

China To Require Filtering Software On PCs. Thomas Claburn, *Information Week*, 8 June 2009. (Internet content filtering)

<http://www.informationweek.com/news/internet/policy/showArticle.jhtml?articleID=217800108§ion=All+Stories>

Checking It Twice. Julie J. Rehmeyer, *Science News*, 19 January 2008. (Election auditing)

http://www.sciencenews.org/view/generic/id/9292/title/Math_Trek__Checking_It_Twice

Internet is 99 per cent porn free. Iain Thomson, *vnunet.com*, 15 November 2006. (Internet content filtering)

<http://www.vnunet.com/vnunet/news/2168636/internet-percent-porn-free>

Internet Content Filters Fail to Block Sexually Explicit Material. Thomas Claburn, *Information Week*, 14 November 2006. (Internet content filtering)

<http://www.informationweek.com/news/showArticle.jhtml?articleID=194300677§ion=All+Stories>

1 percent of Web sites deemed pornographic. Maryclaire Dale, *Associated Press*, 14 November 2006. (Internet content filtering)

<http://www.msnbc.msn.com/id/15721799/>

Only 1 percent of Web pages have porn? Declan McCullagh, *News.com*, 14 November 2006. (Internet content filtering)

http://www.news.com/8301-10784_3-6135662-7.html

U.S., Google Set to Face Off in Court. Michael Liedtke, *Associated Press*, 14 March 2006. (Internet content filtering)

<http://www.sfgate.com/cgi-bin/article.cgi?file=/n/a/2006/03/13/financial/f133050S47.DTL&type=printable>

Google privacy issue enters court. *Al Jazeera*, 14 March 2006. (Internet content filtering)

<http://english.aljazeera.net/archive/2006/03/2008410131655473737.html>

In Case About Google's Secrets, Yours Are Safe. Adam Liptak, *New York Times*, 26 January 2006. (Internet content filtering)

http://www.nytimes.com/2006/01/26/technology/26privacy.html?_r=1&emc=eta1&oref=slogin

Google Resists U.S. Subpoena of Search Data. Katie Hafner and Matt Richtel, *New York Times*, 20 January 2006. (Internet content filtering)

http://www.nytimes.com/2006/01/20/technology/20google.html?pagewanted=1&_r=1

Feds take porn fight to Google. Declan McCullagh and Elinor Mills, *CNET News*, 19 January 2006. (Internet content filtering)

http://news.cnet.com/Feds-take-porn-fight-to-Google/2100-1030_3-6028701.html?tag=mncol;txt

How deep is an earthquake? *Science News*, 2 March 1985. (Deep earthquakes)

Media Appearances; News Mention

Cuyahoga County elections board leads pack in testing, auditing. Laura Johnston, *The Plain Dealer*, 1 January 2012.
http://blog.cleveland.com/metro/2012/01/cuyahoga_county_elections_boar_5.html

Radio Australia “Connect Asia” program, 21 December 2011. (Earthquake clustering)
<http://www.radioaustralia.net.au/connectasia/>

In This Dating Game, the Best Match Could Be Years Away. Carl Bialik, *The Wall Street Journal*, 16 July 2011.
<http://online.wsj.com/article/SB10001424052702304521304576447892115939486.html>

Dozens of personal care products mislabeled as ‘organic,’ lawsuit says. Joanna Lin, *California Watch*, 20 June 2011.
<http://californiawatch.org/dailyreport/dozens-personal-care-products-mislabeled-organic-lawsuit-says-10873>

San Jose siblings two years apart, born on the same day at the same time. Jane J. Lee, *Silicon Valley Mercury News*, 14 June 2011.
http://www.mercurynews.com/breaking-news/ci_18273248?nclick_check=1

Consumer Reports Cops to Chrysler Data Gaps. Eric Mayne, *WardsAuto.com*, 2 Mar 2011.
http://wardsauto.com/ar/consumer_reports_chrysler_110302/

Fifty million to one: Mother defies odds to give birth on 10.10.10 after two others were born on 09.09.09 and 08.08.08. *Daily Mail*, 15 October 2010.
<http://www.dailymail.co.uk/news/article-1320840/Fifty-million-Mother-defies-odds-birth-10-10-10-born-09-09-09-08-08-08.html?ito=feeds-newsxml>

Mom's babies born on 8-8-08, 9-9-09, 10-10-10. Elizabeth Weise, *USA TODAY*, 14 October 2010.

http://www.usatoday.com/yourlife/parenting-family/babies/2010-10-14-Birthday14_ST_N.htm

Ready or Not. Cosma Shalizi, *American Scientist*, March 2010. (Earthquake prediction)

<http://www.americanscientist.org/bookshelf/pub/ready-or-not>

AIDS Vaccine Trial Shows Only Slight Protection. Donald G. McNeil Jr., *New York Times*, 21 October 2009.

http://www.nytimes.com/2009/10/21/health/research/21vaccine.html?_r=1

KQED-FM Forum program on the Census, 6 March 2009.

Census, partisan wrangling go hand-in-hand. Tyche Hendricks, *Scripps News*, 23 February 2009.

<http://www.scrippsnews.com/node/41139>

Why the census is always political. Tyche Hendricks, *San Francisco Chronicle*, 22 February 2009.

<http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2009/02/22/MNPB161PBV.DTL>

He's Out for the Count. Mark Hosenball, *NEWSWEEK*, 14 February 2009, Magazine issue dated 23 February 2009.

<http://www.newsweek.com/id/184802>

Measure B court challenge heads to San Francisco. Karen de Sá, *Mercury News*, 1 December 2008.

http://www.mercurynews.com/politics/ci_11113510

New Election Audit Targets Close Races. Laura Snider, *Daily Camera*, 26 November 2008.

<http://www.dailycamera.com/news/2008/nov/26/new-election-audit-targets-close-races/>

Counting Continues for Elections Department. *Redwood Times*, 19 November 2008.

http://www.redwoodtimes.com/local/ci_11023304

Reelz Channel Dailies "Is it Real?" Reelz Channel, 15 June 2007.

The Fred Ebert Show program on probability and statistics. KIRO 710, Seattle, WA, 27 October 2003

AFC NewSource story on airline security [Airing: The Osgood File (CBS Radio Network), 7/29/03, 2/18/03; KRON-TV (San Francisco), 2/3/03]

http://www.acfnewsources.org/science/random_security.html

ABC 7 News story on census adjustment, 30 November 1998

KQED-FM Forum program on the 2000 Census, San Francisco, CA, 17 July 1998.

<http://www.kqed.org/radio/programs/forum/>

Teaching and Advising

Courses

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)

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)

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

Theoretical Statistics (Statistics 210B)

Applied Statistics (Statistics 215B)

Nonparametric and Robust Methods (Statistics 240)

Topics in Probability and Statistics (Statistics 260)

Statistical Consulting (Statistics 272)

Former Graduate Students and Postdocs

Imola K. Fodor, Genentech

Christopher R. Genovese, Carnegie Mellon University

Niklaus W. Hengartner, Los Alamos National Laboratory

Janne Huttunen, University of Auckland

Bradley Luen

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

R. Jay Pulliam, University of Texas

Chad M. Schafer, Carnegie Mellon University

Graduate Committees

1. Alameida, Jose, Mathematics. Ph.D. qualifying examination, 2008
2. Bach, Andre, Physics. Ph.D. qualifying examination, 2011
3. Bar-Yossef, Ziv, Computer Science. Ph.D. qualifying examination, 2001; dissertation committee, "The Complexity of Massive Data Set Computations," 2002

4. Bein, Ed, Biostatistics. MA examination, 2002
5. Berny, Axel Dominique, EECS. Ph.D. qualifying examination, 2004; dissertation committee, "Analysis and Design of Wideband LC VCOs," 2006
6. Bodik, Peter, Computer Science. Ph.D. qualifying examination, 2007; dissertation committee, "Automating Datacenter Operations Using Machine Learning," 2010
7. Bowman, John Penfield, IEOR. Ph.D. qualifying examination, 2003
8. Bunn, Emory Freeman, Physics. Ph.D. qualifying examination, 1994; dissertation committee, "Statistical Analysis of Cosmic Microwave Background Anisotropy," 1995
9. Burstein, Richard David II, Mathematics. Ph.D. qualifying examination, 2004; dissertation committee, "Hadamard Subfactors of Bisch-Haagerup Type," 2008.
10. Buttrey, Samuel Edward, Statistics. Ph.D. qualifying examination, 1994; dissertation committee, "Nearest-Neighbor Classification with Categorical Variables," 1996
11. Calef, Brandoch Hugh, Applied Mathematics. Ph.D. qualifying examination, 1997; dissertation committee, "Optimal Sampling of the Discrete Fourier Transform," 2002
12. Charman, Andrew Emile, Physics. Ph.D. qualifying examination, 2003; dissertation committee, "Random Aspects of Beam Physics and Laser-Plasma Interactions," 2006
13. 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
14. Chien, Georgs, EECS. Ph.D. qualifying examination, 1998
15. Feldman, Arnold R., EECS. Ph.D. qualifying examination, 1995; dissertation committee, "High-Speed, Low-Power Sigma-Delta Modulators for RF Baseband Channel Applications," 1997

16. Fodor, Imola K., Statistics. Ph.D. qualifying examination, 1997; chair, dissertation committee, "Spectrum Estimation in Helioseismology," 1999
17. Fong, Keng Leong, EECS. Ph.D. qualifying examination, 1996; dissertation committee, "Design and Optimization Techniques for Monolithic RF Downconversion Mixers," 1997
18. Gagnon-Bartsch, Johann, Statistics. Ph.D. qualifying examination, 2009
19. Gawiser, Eric Joseph, Physics. Ph.D. qualifying examination, 1998
20. Genovese, Christopher Ralph, Statistics. Ph.D. qualifying examination, 1992; chair, dissertation committee, "Statistical Problems in Helioseismology," 1994
21. Goldman, Megan, Biostatistics. Chair, Ph.D. qualifying examination, 2009
22. Gung, Yuan-Cheng, Geophysics. Dissertation committee, "Q Tomography of the Earth Mantle," 2003
23. Hansen, Bendek, Statistics. Chair, MA thesis committee, "Minimax Expected Length Confidence Intervals," 2000
24. Hansen, Mark Henry, Statistics. Chair, Ph.D. qualifying examination, 1992
25. Hengartner, Niklaus Walther, Statistics. Co-chair, dissertation committee, "Topics in Density Estimation," 1993
26. Higgins, Mike, Statistics. Ph.D. qualifying examination, 2009, 2010.
27. Huang, Hsiang-Ping, Mathematics. Ph.D. qualifying examination, 1996
28. Huang, Jianhua, Statistics. Ph.D. qualifying examination, 1994; dissertation committee, "Topics in Extended Linear Modeling," 1997
29. Huang, Yuanlin, Civil Engineering. Ph.D. qualifying examination, 1993, 1994

30. Jiang, Xuesong, EECS. Ph.D. qualifying examination, 2001
31. Jones, David Morgan, Mathematics. Ph.D. qualifying examination, 1994; dissertation committee, "On Modular Galois Representations in Characteristic 3," 1998
32. Katsis, Dimitrios, EECS. Ph.D. qualifying examination, 2005
33. Kiesling, Max Karl, Civil Engineering. Ph.D. qualifying examination, 1994
34. Li, Bo, Statistics. Ph.D. qualifying examination, 2004
35. Loscutoff, Peter, Physics. Ph.D. qualifying examination, 2011
36. Luen, Bradley, Statistics. Ph.D. qualifying examination, 2006; Chair, dissertation committee, "Earthquake Prediction: Simple Methods for Complex Phenomena," 2010
37. Madar, Vered, Statistics and Operations Research, Tel Aviv University. MA thesis committee, "Non-equivariant confidence intervals," 2002
38. 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
39. Mieler, Michael William, Civil Engineering. Ph.D. qualifying examination, 2011.
40. Miratrix, Luke W., Statistics. Chair, Ph.D. qualifying examination, 2010
41. Murmann, Boris, EECS. Ph.D. qualifying examination, 2002; dissertation committee, "Digital Calibration for Low-Power High-Performance A/D Conversion," 2003
42. Ou, Jeffrey Jiajiunn, EECS. Ph.D. qualifying examination, 1995
43. Petkov, Vladimir Plamenov, EECS. Ph.D. qualifying examination, 2003

44. Poobuapheun, Nuntachai, EECS. Ph.D. qualifying examination, 2005; dissertation committee. “LNA and Mixer Designs for Multi-Band Receiver Front-Ends,” 2009
45. Pulliam, R. Jay, Geophysics. Ph.D. dissertation committee, “Imaging Earth’s Interior: Tomographic Inversion of Mantle P-Wave Velocity Structure,” 1991
46. Qian, Kun, EECS. Ph.D. qualifying examination, 2009
47. Rein, Steven Richard, Statistics. Chair, Ph.D. qualifying examination, 1990
48. 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
49. Son, Sang Won, EECS. Ph.D. qualifying examination, 2000; dissertation committee, “High Dynamic Range CMOS Mixer Design,” 2002
50. Suzuki, Toru, Demography. Ph.D. qualifying examination, 1995; dissertation committee, “Projection of Households in Japan with a Dynamic Macro-Simulation Model,” 1999
51. Tee, Luns, EECS. Ph.D. qualifying examination, 2001
52. Tenorio, Luis-Francisco, Mathematics. Ph.D. dissertation committee, “Asymptotic Dynamics of Locally Oblique Solitary Wave Solutions of the KP Equation,” 1992
53. To, Albert Chi Fu, Statistics. MA committee, 2005
54. Wagner, Tim Allen, CS. Ph.D. qualifying examination, 1995; dissertation committee, “Practical Algorithms for Incremental Software Development Environments,” 1997
55. Wicks, Charles Wesley Jr., Geophysics. Ph.D. qualifying examination, 1990; dissertation committee, “An Investigation of Mantle Discontinuities Beneath the Southwest Pacific,” 1994

56. 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
57. Zhang, Xiaoyan, Statistics. Ph.D. qualifying examination, 1997
58. Zagheni, Emilio, Demography. Ph.D. qualifying examination, 2008

Service

Professional Societies and Government Agencies

- 2012
 - 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, SIAM/ASA/SAMSI/USACM Conference on Uncertainty Quantification, Raleigh, NC
 - Consultant, California Secretary of State
 - Consultant, Colorado Secretary of State
- 2011
 - Consultant and Expert Witness, U.S. Department of Justice, Civil Division (for Department of Housing and Urban Development)
 - Organizing committee co-chair, SIAM/ASA/SAMSI/USACM Conference on Uncertainty Quantification, Raleigh, NC
 - Consultant, California Secretary of State
 - Consultant, Colorado Secretary of State
- 2010
 - Consultant and Expert Witness, U.S. Department of Justice, Civil Division (for Department of Housing and Urban Development)

- Reviewer, Department of Defense Strategic Environmental Research and Development Program
- Session organizer, Election Verification Network (EVN) annual conference, Washington, DC, 25–27 March
- 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
- 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 – 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
- 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, Solar-Terrestrial Program, Statistics and Probability)

Non-Profit Corporations and Private Industry

- 2011–present – 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

Editorial Service

- 2011–present – Editor, *Frontiers in Probability and Statistics*
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
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. Political Analysis
30. Physics of the Earth and Planetary Interiors
31. Proceedings of the National Academy of Sciences
32. Science
33. SIAM Review
34. Simon and Schuster
35. Springer-Verlag
36. Statistical Science
37. Tectonophysics

University Service

- 2011–2012
- Acting Department Chair, Department of Statistics, July–August
 - Vice Chair, Department of Statistics
 - Academic Senate Alternate Representative to University of California Statewide 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)
 - 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
- Program Advisory Committee, Doctor of Business Administration Program, Lincoln University
- 2009–2010 – Academic Senate Committee on Computing and Communications (COMP)
- 2007–2008 – Undergraduate Student Learning Initiative Faculty Advisory Committee
- 2005–present – 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
- 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 Bear Facts Committees (combined into Student Systems Policy Committee as of 3/2002)
 - e-Berkeley Portal Working Group
 - 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)

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.
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:
<http://statistics.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.
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.

Consulting and Expert Witness Experience

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

Brinks, Hofer, Gilson & Lione: intellectual property litigation (client R.J. Reynolds)

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

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

CIBC: economic modeling and 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

Contra Costa County Public Defender, Richmond, CA: equal protection

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

East Bay Municipal Utilities District: water treatment monitoring

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

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

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

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

Fuller-Austin Joint Defense Group: modeling in litigation

GMAC Financial Services: economic modeling and 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 Tobacco Co.)

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

HSBC: economic modeling and risk management

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

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: sampling in litigation (client Apple Inc.)

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

Law Offices of Ilson W. New, San Francisco, CA: natural resource legislation

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

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

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

Law Offices of Wolkin & Timpane, San Francisco, CA: insurance litigation

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

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

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

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

Munger, Tolles & Olson, LLP, San Francisco, CA: consumer class action litigation, sampling (clients Verizon Wireless, Philip Morris)

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

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

Oracle: sampling and risk analysis

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)

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

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

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

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

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

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

U.S. Department of Housing and Urban Development, Washington, D.C.: disparate impact of disaster-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

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

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

Zimmerman Reed, Scottsdale, AZ: consumer class action litigation

Recent Testimony (incomplete prior to 2003)

October 2011. Buckheit vs. Dennis et al. (U.S. District Court, Northern District of California, Case CV09-5000 JCS). Deposition.

June 2010. Testimony before California State Senate Committee on Elections, Reapportionment and Constitutional Amendments. Legislative hearing.

<http://statistics.berkeley.edu/~stark/Preprints/ab2023-senate-15-6-10.htm>

April 2010. Testimony before California State Assembly Committee on Elections and Redistricting. Legislative hearing.

<http://statistics.berkeley.edu/~stark/Preprints/ab2023-assembly-20-4-10.htm>

March 2010. Sharpley and Abeling vs. William Long, Novato Sanitary District et al. (State of California Superior Court, County of Marin, Case CIV 096368). Trial testimony.

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 testimony.

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 testimony.

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.

July 2008. Coordination Proceeding Special Title (Rule 1550(b)) Cellphone Termination Fee Cases (State of California Superior Court, County of Alameda). Deposition.

April 2008. Coordination Proceeding Special Title (Rule 1550(b)) Cellphone Termination Fee Cases (State of California Superior Court, County of Alameda). Deposition.

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.

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.

November 2006. Coordination Proceeding Special Title (Rule 1550(b)) Cellphone Termination Fee Cases (State of California Superior Court, County of Alameda). Deposition.

November 2006. ACLU vs. Gonzales (U.S. District Court, Eastern District of Pennsylvania, Civil Action No. 98-5591). Trial testimony.

August 2006. ACLU vs. Gonzales (U.S. District Court, Eastern District of Pennsylvania, Civil Action No. 98-5591). Deposition.

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 testimony.

December 2003. Richison et al. vs. American Cemwood Corporation (State of California Superior Court, San Joaquin County, Case No. 005532). Trial testimony.

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.

May 2003. Richison et al. vs. American Cemwood Corporation (State of California Superior Court, San Joaquin County, Case No. 005532). Deposition.

May 1998. Testimony before the U.S. House of Representatives Subcommittee on the Census. Legislative hearing.

1997. Testimony before the State of California Senate Committee on Natural Resources. Legislative hearing.

<http://statistics.berkeley.edu/~stark/bio.pdf>

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