

David Mease

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CURRENT POSITIONS

Staff Quantitative Analyst, Google, Inc. June 2005 - present
Associate Professor, San Jose State University Aug 2005 - present (on leave)

EDUCATION

University of California, Berkeley

- NSF Postdoctoral Research Fellow, Dept. of Statistics Aug 2004 - July 2005

University of Pennsylvania, Wharton School of Business

- NSF Postdoctoral Research Fellow, Dept. of Statistics June 2003 - July 2004

University of Michigan

- Ph.D. in Statistics August 2003
- M.A. in Statistics April 2000

University of Toledo

- Three semesters in M.S. Mathematics program
- GPA in M.S. program 4.0/4.0
- B.E. in Mathematics Education (Summa Cum Laude)
- GPA in B.E. program 4.0/4.0

AWARDS

- 2011 [#1 Professor in United States](#), RateMyProfessors.com
- 2009 Lucas Research Fellowship, San Jose State University
- 2009 College of Business Master Teacher Award, San Jose State University
- 2008 College of Business Master Teacher Award, San Jose State University
- 2007 College of Business Faculty Research Award, San Jose State University
- 2007 [40 Under 40, San Jose Business Journal](#)
- 2003 Mathematical Sciences Postdoctoral Research Fellowship,
National Science Foundation (NSF)
- 2002 Rackham Predoctoral Fellowship, University of Michigan
Graduate School

- 2002 Outstanding Teaching Award, University of Michigan
Statistics Department
- 1999 Award for Outstanding Performance in Applied Statistics,
University of Michigan Statistics Department
- 1998 Regents' Fellowship, University of Michigan
- 1996 Mid-American Conference Commissioner's Award for Academic
and Athletic Excellence
- 1994 Levis Scholarship, University of Toledo
- 1994 Tollison Scholarship, University of Toledo
- 1994 Paul Douglas Teacher Scholarship, Ohio Board of Regents

PUBLICATIONS

Chouldechova, A. and Mease, D. (2013), "Differences in search engine evaluations between query owners and non-owners," in *Proceedings of the sixth ACM international conference on Web search and data mining (WSDM '13)*, 103-112, Rome, Italy.

Ma, L., Mease, D. and Russell, D. M., (2011), "A Four Group Cross-Over Design for Measuring Irreversible Treatments on Web Search Tasks," in *Proceedings of 44th Hawaii International Conference on System Sciences (HICSS '11)*, 1-9, Koloa, Hawaii.

Moraveji, N., Russell, D. M., Bien, J. and Mease, D. (2011), "Measuring improvement in user search performance resulting from optimal search tips," in *Proceedings of the 34th International ACM SIGIR Conference (SIGIR '11)*, 355-364, Beijing, China.

Xu, Y. and Mease, D. (2009), "Evaluating Web Search Using Task Completion Time," in *Proceedings of the 32nd International ACM SIGIR Conference (SIGIR '09)*, 676-677, Boston, MA.

Khan, R., Mease, D. and Patel, R. (2009), "The Impact of Result Abstracts on Task Completion Time," in *Proceedings of the WWW 2009 Workshop on Web Search Result Summarization and Presentation*, Madrid, Spain.

Gehrt, K., O'Brien, M. and Mease, D. (2009), "Enhancing the Communication Competency of Business Undergraduates: A Consumer Socialization Perspective," *Indian Journal of Economics and Business*, Special Issue, 111-120.

Mease, D. and Wyner, A. (2008), "Evidence Contrary to the Statistical View of Boosting," *Journal of Machine Learning Research*, 9, 131-156.

Mease, D., Nair, V.N. and Robinson, J. (2008), "Reliability Demonstration," Wiley Encyclopedia of Quantitative Risk Assessment.

Buja, A., Mease, D. and Wyner, A. (2007), "Comment: Boosting Algorithms: Regularization, Prediction and Model Fitting," *Statistical Science*, 22, 506-512.

- Mease, D., Wyner, A. and Buja, A. (2007), "Boosted Classification Trees and Class Probability/Quantile Estimation," *Journal of Machine Learning Research*, 8, 409-439.
- Mease, D. and Bingham, D. (2006), "Latin Hyperrectangle Sampling for Computer Experiments," *Technometrics*, 48, 467-477.
- Mease, D. and Nair, V.N. (2006), "Unique Optimal Partitions of Distributions and Connections to Hazard Rates and Stochastic Ordering," *Statistica Sinica*, 16, 1299-1312.
- Mease, D. and Nair, V.N. (2006), "Extreme (X-) Testing with Binary Data and Applications to Reliability Demonstration Plans," *Technometrics*, 48, 399-410.
- Mease, D. (2004), Discussion of "Statistics and the College Football Championship" by Hal Stern, *The American Statistician*, 58, 192-194.
- Mease, D., Nair, V.N. and Sudjianto, A. (2004), "Selective Assembly in Manufacturing: Statistical Issues and Optimal Binning Strategies," *Technometrics*, 46, 165-175.
- Mease, D., Nair, V.N., and Sudjianto, A. (2004), "Reliability Testing and Estimation Using Variance-Reduction Techniques," *Engineering Design Reliability Handbook* (Nikolaidis, E., Ghiocel, D. and Singhal, S., editors), CRC Press, Chapter 27.
- Mease, D. (2003), "A Penalized Maximum Likelihood Approach for the Ranking of College Football Teams Independent of Victory Margins," *The American Statistician*, 57, 241-248.
- Mease, D. and Nair, V.N. (2003), "Variance Reduction Techniques for Reliability Estimation Using CAE Models," in *Proceedings of SAE 2003 World Congress*, SAE Technical Paper Number 2003-01-0150.

TEACHING EXPERIENCE

Business 90 Instructor, San Jose State University, College of Business
August 2005 - Present
Taught multiple sections of Bus 90 (Business Statistics)
Received student evaluations at or above 4.8 (out of 5.0) in every class

Statistics 202 Instructor, Stanford University Statistics Dept.
June 2007 - August 2007, June 2008 - August 2008
Taught Statistics 202 (Data Mining) to Stanford graduate students

Data Mining Instructor, Google Inc.
June 2007 - August 2007
Taught data mining class to Google employees

Statistics 306B Co-Instructor (with David Donoho), Stanford University Statistics Dept.
March 2005- June 2005

Taught five weeks of a first year Ph.D. course in applied statistics

Statistics 400 Graduate Student Instructor, University of Michigan Statistics Department
September 2001 - May 2002

Taught two 90 minute weekly laboratory sections for undergraduates using SPSS

Kaplan GRE Instructor, Kaplan Test Prep, Toledo, Ohio

February 2000 - July 2000

Taught a 3 hour GRE preparation course once a week

Mathematics Teaching Assistant, University of Toledo Mathematics Department

Fall 1997 - Taught a 90 minute discussion section to two classes twice a week

Spring 1998 - Taught a 50 minute pre-calculus lecture three times a week

Student Teaching, Sylvania Southview High School, Sylvania, OH

Spring 1997

Taught high school courses in Geometry, Remedial Mathematics and Algebra II

Tutoring, University of Toledo Office of Accessibility / Athletic Department

January 1996 - June 1997

Tutored undergraduate students in various college mathematics courses

COMPUTING

Some experience with Python, C++, JAVA, HTML and Maple and statistical packages R, S-Plus, SAS, Minitab and SPSS