

Curriculum Vitae

David Mease

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CURRENT POSITION

Assistant Professor, College of Business, San Jose State University

EDUCATION

University of California, Berkeley

- NSF Postdoctoral Research Fellow, Dept. of Statistics, August 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

RESEARCH INTERESTS

- Classification and Machine Learning
- Statistics in Engineering
- Reliability Analysis and Structural Reliability
- Design of Computer Experiments
- Statistics in Sports
- Variance Reduction and Importance Sampling Techniques

AWARDS

- 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

- 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.

RECENT INVITED TALKS

"*Evidence Contrary to the Statistical View of Boosting*," Spring Research Conference, Atlanta, Georgia, May, 19, 2008

"*Evidence Contrary to the Statistical View of Boosting*," Statistics Department Seminar, University of California, Santa Cruz, March 10, 2008

"*Evidence Contrary to the Statistical View of Boosting*," INFORMS annual meeting in Seattle, Washington, November 4, 2007

"*Semi-Supervised Learning Using Self-Training with Random Forests*," 56th Session of the International Statistical Institute, Lisbon, Portugal, August, 27, 2007

"*Evidence Contrary to the Statistical View of Boosting*," American Statistical Association San Francisco Bay Area Chapter, San Jose, California, February 22, 2007

"*X-Testing Using Binary Data with Applications to Reliability Demonstration Plans*," *Technometrics* Invited Session, Inform's Annual Meeting, Pittsburgh, Pennsylvania, November, 7, 2006

"*Latin Hyper-Rectangle Sampling for Computer Experiments*," Joint Research Conference on Statistics in Quality, Industry, and Technology, Knoxville, Tennessee, June 8, 2006

“Evidence Contrary to the Statistical View of Boosting,” Stanford Statistics Department Seminar, Stanford, California, November, 15, 2005

“X-Testing Using Binary Data with Applications to Reliability Demonstration Plans,” Informs Annual Meeting, San Francisco, California, November, 13, 2005

“X-Testing Using Binary Data with Applications to Reliability Demonstration Plans,” U.S. Army Conference on Applied Statistics, Monterey, California, October, 19, 2005

“X-Testing Using Binary Data with Applications to Reliability Demonstration Plans,” Design and Analysis of Experiments Conference (DAE), Santa Fe, New Mexico, October, 14, 2005

“Statistics and the College Football Championship,” Joint Statistical Meetings, Minneapolis, Minnesota, August 9, 2005

“Computing Conditional Class Probabilities and Quantiles Using Boosting,” Google, Mountain View, California, March 14, 2005

“Boosted Classification Trees, Overfitting, and Conditional Class Probability Estimation,” Neyman Seminar, University of California, Berkeley, CA, September 15, 2004

“Latin Hyper-Rectangle Sampling for Computer Experiments,” NPCDS/SAMSI Workshop on the Design and Analysis of Computer Experiments for Complex Systems, Banff, Alberta, Canada, July 15, 2004

“X-Testing Using Binary Data with Applications to Reliability Demonstration Plans,” Conference on Mathematical Methods in Reliability, Santa Fe, New Mexico, June, 21, 2004

“Latin Hyper-Rectangles for Stochastic Analysis of CAE Models,” Society of Automotive Engineers World Congress, Detroit, Michigan, March 8, 2004

“Latin Hyper-Rectangle Sampling for Computer Experiments,” Simon Fraser University Department of Statistics and Actuarial Science Seminars, Burnaby, British Columbia, January 15, 2004

“X-Testing for Reliability Demonstration Plans,” General Motors, Warren, Michigan, November 21, 2003

“Latin Hyper-Rectangle Sampling for Computer Experiments,” University of California Department of Statistics Speakers Series, Los Angeles, California, November 18, 2003

“Latin Hyper-Rectangles for Integration in Computer Experiments,” Los Alamos National Labs, Los Alamos, New Mexico, July 16, 2003

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

Capabilities in Python, C++, JAVA, HTML and Maple and statistical packages R, S-plus, SAS, Minitab and SPSS

REFERENCES

Vijay Nair
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