

MITCHELL R. WATNIK

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EDUCATION

University of California, Davis. Ph.D. in [Statistics](#). Degree (1996).

University of California, Davis. Master of Science degree in Statistics (1993).

University of California, San Diego. Bachelor of Arts degree with departmental distinction in Quantitative Economics and Decision Sciences (1991).

DISSERTATION TOPIC

Non-nested model selection / Testing for non-nested linear models. Advisor: Prof.

[Wesley Johnson](#)

PUBLICATIONS:

Lim, Michele C., Roma P. Patel, Victor S. Lee, Patricia D. Weeks, Martha K. Barber, and Mitchell R. Watnik (2015). [The Long-Term Financial and Clinical Impact of an Electronic Health Record on an Academic Ophthalmology Practice](#). *Journal of Ophthalmology*, vol. 2015, Article ID 329819, 7 pages.

Watnik, Mitchell R., and Richard A. Levine (2012). [If We Build It, Will They Compete?](#) *Chance* **25**, 26-31.

Lim, Michele C., Mitchell R. Watnik, Katrina R. Imson, Scott M. Porter, and Alison M. Granier (2012). [Adherence to Glaucoma Medication: The Effect of Interventions and Association With Personality Type](#), *Journal of Glaucoma*, 2012(March 8).

Watnik, Mitchell R. (2011). [Early Computational Statistics](#), *Journal of Computational and Graphical Statistics*, **20**(4), 811-817.

Cahill, Thomas A., David E. Barnes, Earl Withycombe, and Mitchell Watnik (2011). [Very Fine and Ultrafine Metals and Ischemic Heart Disease in the California Central Valley 2: 1974–1991](#). *Aerosol Science and Technology*, **45**(9), 1135-1142.

Barrett, D.M., C. Weakley, J.V. Diaz, AND M. Watnik (2007). [Qualitative and Nutritional Differences in Processing Tomatoes Grown under Commercial Organic and Conventional Production Systems](#), *Journal of Food Science*, **72** (9), 441-451.

Lim, Michele, Diana R. Shiba, Ingrid J. Clark, Daniel Y. Kim, Douglas E. Styles,

James D. Brandt, Mitchell R. Watnik, Isaac J. Barthelow (2007). [Personality Type of the Glaucoma Patient](#), *Journal of Glaucoma*, **16**(8), 649-654.

Watnik, Mitchell (2007). [Review of Advanced Statistics from an Elementary Point of View by Michael J. Panik](#), *Journal of the American Statistical Association*, **102**, 766-767.

Invernizzi P, Miozzo M, Oertelt-Prigione S, Meroni PL, Persani L, Selmi C, Battezzati PM, Zuin M, Lucchi S, Marasini B, Zeni S, Watnik M, Tabano S, Maitz S, Pasini S, Gershwin ME, Podda M. (2007). [X monosomy in female systemic lupus erythematosus](#). *Annals of the New York Academy of Sciences*. (Sept.) **1110**, 84-91.

Cassady, Diana, Marilyn Townsend, Robert A. Bell, and Mitchell Watnik (2006). [Portrayals of branded soft drinks in popular American movies: a content analysis](#), *International Journal of Behavioral Nutrition and Physical Activity*, **3**:4.

Garcia, E, MR Watnik, and DM Barrett (2006). [Can We Predict Peeling Performance of Processing Tomatoes?](#), *Journal of Food Processing and Preservation*, **30**, 46-55.

Hackman, RM, PJ Havel, HJ Schwartz, JC Rutledge, MR Watnik, EM Noceti, SJ Stohs, JS Stern and CL Keen (2006). [Multinutrient supplement containing ephedra and caffeine causes weight loss and improves metabolic risk factors in obese women: a randomized controlled trial](#), *International Journal of Obesity*, **30**(10), 1545-56.

Gershwin, ME, Selmi C, Worman HJ, Gold EB, Watnik M, Utts J, Lindor KG, Kaplan MM, Vierling JM, USA PBC Epidemiology Group (2005). [Risk factors and comorbidities in primary biliary cirrhosis: A controlled interview-based study of 1032 patients](#). *Hepatology*, **42**(5), 1194-1202.

Invernizzi, P, Miozzo M, Selmi C, Persani L, Battezzati PM, Zuin M, Lucchi S, Meroni PL, Marasini B, Zeni S, Watnik M, Grati FR, Simoni G, Gershwin ME, Podda M (2005). [X Chromosome monosomy: a common mechanism for autoimmune diseases](#). *Journal of Immunology*, **175**(1), 575-8.

Sebat F, Johnson D, Musthafa AA, Watnik M, Moore S, Henry K, Saari M. (2005). [A multidisciplinary community hospital program for early and rapid resuscitation of shock in nontrauma patients](#). *Chest*, **127**(5), 1729-43.

Kimura Y, Selmi C, Leung PS, Mao TK, Schauer J, Watnik M, Kuriyama S, Nishioka M, Ansari AA, Coppel RL, Invernizzi P, Podda M, Gershwin ME. (2005). [Genetic polymorphisms influencing xenobiotic metabolism and transport in patients with primary biliary cirrhosis](#). *Hepatology*, **41**(1), 55-63.

Invernizzi P, Miozzo M, Battezzati PM, Bianchi I, Grati FR, Simoni G, Selmi C, Watnik M, Gershwin ME, Podda M. (2004). [Frequency of monosomy X in women with primary biliary cirrhosis](#). *Lancet*, **363**, 533-535.

Spies MA, Woodward JJ, Watnik MR, and Toney MD. (2004). Alanine Racemase Free Energy Profiles from Global Analyses of Progress Curves. *Journal of the American Chemical Society*, **126**, 7464-7475.

Benson GD, Kikuchi K, Miyakawa H, Tanaka A, Watnik MR, Gershwin ME. (2004). [Serial analysis of antimitochondrial antibody in patients with primary biliary cirrhosis](#). *Clinical and Developmental Immunology*, **11**, 129-133.

Baumgarth N, Szubin R, Dolganov GM, Watnik MR, Greenspan D, Da Costa M, Palefsky JM, Jordan R, Roederer M, Greenspan JS. (2004). [Highly Tissue Substructure-Specific Effects of Human Papilloma Virus in Mucosa of HIV-Infected Patients Revealed by Laser-Dissection Microscopy-Assisted Gene Expression Profiling](#). *American Journal of Pathology*, **165**, 707-718.

Ziboh, VA; Naguwa, S; Vang, K; Wineinger, J; Morrissey, BM; Watnik, M; and Gershwin, ME (2004). [Suppression of Leukotriene B4 Generation by Ex-vivo Neutrophils Isolated from Asthma Patients on Dietary Supplementation with Gammalinolenic Acid-containing Borage Oil: Possible Implication in Asthma](#). *Clinical and Developmental Immunology* **11**, 13-21.

Grow, MP; Singh, A; Fleming, NW; Young, N; and Watnik, M (2004). [Cardiac Output Monitoring During Off-Pump Coronary Artery Bypass Grafting](#). *Journal of Cardiothoracic and Vascular Anesthesia* **18**, 43-46.

Siekmann, JH; Allen, LH; Watnik, MR; Nestel, P; Neumann, CG; Shoenfeld, Y; Peter, JB; Patnaik, M; Ansari, AA; Coppel, RL; and Gershwin, ME (2003). [Antibody Titers to Common Pathogens: Relationship to Food-Based Interventions in Rural Kenyan School Children](#). *American Journal of Clinical Nutrition* **77**, 242-249.

Watnik, Mitchell, and Wesley Johnson (2002). [The Behavior of Linear Model Selection Tests Under Globally Non-Nested Hypotheses](#). *Sankhya Ser. A*, **64**, pt. 1, pp. 109-138.

Cassady, Diana, Jennifer Culp, and Mitchell Watnik (2002). [Using Social Marketing to Promote a Healthy Diet and Physical Activity: The Need for Training Public Health Professionals](#). *Social Marketing Quarterly*, **8**, pp. 53-62.

Castillo, Alesha B., Alice F. Tarantal, Mitchell R. Watnik and R. Bruce Martin (2002). Tenofovir treatment at 30 mg/kg/day can inhibit cortical bone mineralization in rhesus monkeys (*Macaca mulatta*). *Journal of Orthopaedic Research* **20**, pp. 1185-1189.

Watnik, Mitchell R., and Richard A. Levine (2001). [NFL Y2K PCA](#). *Journal of Statistics Education* **9** no. 3.

Watnik, Mitchell, Wesley Johnson, and Edward J. Bedrick (2001). [Non-Nested Linear Model Selection Revisited](#). *Communications in Statistics: Theory and Methods* **30** no. 1, pp. 1-20.

Moran, RE; Southwick, SM; Watnik, M. (2001). Response of secondary bloom of 'Bartlett' pear (*Pyrus communis L.*) to pruning. *Journal of Horticultural Science and Biotechnology*. **76** no. 1. pp. 88-92.

Watnik, Mitchell R. (1998). [Pay for Play: Are Baseball Salaries Based on Performance?](#), *Journal of Statistics Education* **6** no. 2.

Watnik, Mitchell R. and Wesley O. Johnson (1998). The Behavior of Non-Nested Linear Model Selection Tests Under the Alternative Hypothesis. *1997 Proceedings of the Business and Economics Statistics Section*, pp. 195-199, Alexandria, VA: American Statistical Association.

Samaniego, F. J. and M. R. Watnik (1997). [The Separation Principle in Linear Regression](#). *Journal of Statistics Education* **5** no. 3.

Kussmaul, Clif, Jason Dunn, Mitchell Watnik and Michael Bagley (1996). Using Technology in Education: When and Why, Not How. *College Teaching* **44**, 123-126.

ACADEMIC AND PROFESSIONAL POSITIONS:

Professor and Department Chairperson, Department of Statistics and Biostatistics, California State University, East Bay.

Summer, 2015-present

Professor and Graduate Coordinator, Department of Statistics and Biostatistics, California State University, East Bay.

Fall, 2014-Spring, 2015

Courses taught: Elements of Probability and Statistics (1000) [3 times], Statistical

Inference II (3503), Advanced Statistical Package Usage (4910), SAS Programming (6250), Theory and Application of Regression (6509) [2 sections].

Associate Professor and Graduate Coordinator, Department of Statistics and Biostatistics, California State University, East Bay.

Fall, 2009-Summer, 2014

Courses taught: Elements of Probability and Statistics (1000) [7 times], Introductory Statistics Through Sports (2008) [2 sections], Regression (4601), SAS Programming (6250) [3 times], Advanced Statistical Inference (6304) [2 sections], and Analysis of Variance Models (6305) [2 sections].

Assistant Professor, Department of Statistics and Biostatistics, California State University, East Bay.

Fall, 2005-Summer, 2009.

Courses taught: Elements of Probability and Statistics (1000) [5 times], Statistics for Business and Economics (2010) [2 times], Regression (4601), Statistical Modeling for Management and Economics (6011), Statistical Programming (6250) [2 times], Theory and Application of Regression (6509) [3 times], Analysis of Variance (6510) [2 times], Seminar in Econometrics (Econ. 6400) [3 times], Advanced Applied Econometrics (Econ. 6511).

Senior Statistician, Statistical Laboratory, University of California, Davis.

Summer, 2000-Summer, 2005

Consult on statistical projects with faculty, staff, and students associated with the University; and work on NIH grant-funded projects with Dr. M. Eric Gershwin and Prof. Jessica Utts.

Senior Statistician, Statistical Laboratory, and Lecturer, Division of Statistics, University of California, Davis.

Fall, 1999-Spring, 2000.

Consult on statistical projects with faculty, staff, and students associated with the University.

Course taught (lower division): Elementary Statistics (13).

Courses taught (upper division): Applied Statistics for Business and Economics (103), Applied Statistical Methods: Analysis of Variance (106).

Assistant Professor, Department of Mathematics and Statistics, University of Missouri-Rolla.

Fall, 1996-Spring, 1999.

Courses taught: Elementary Statistics (115) [2 times], Statistics for Decision-Making (211), Statistical Methodology in Engineering (213) [3 times], Special Problems: Introduction to SAS and S-Plus (300), Statistical Computing (301), Regression

Analysis (346) [3 times], Categorical Data Analysis (401), and Advanced Techniques in Data Analysis (401).

Postdoctoral Researcher, Graduate School of Management, University of California, Davis.

Summer, 1998.

Worked on testing procedures for parametric biostatistical model selection as part of an NSF funded project.

Associate Instructor, Division of Statistics, University of California, Davis.

Summer, 1994; Winter, 1995 - Summer, 1995, and Spring, 1996.

Course taught (lower division): Elementary Statistics (13) [4 times].

Course taught (upper division): Applied Statistics for Business and Economics (103).

Co-instructor, Division of Statistics and Teaching Resources Center, University of California, Davis.

Winter, 1996.

Upper Division course co-taught with Robert Shumway as part of the Program in College Teaching: Statistical Computing (141).

Teaching Assistant, Division of Statistics, University of California, Davis.

Fall, 1991 - Spring, 1992; Fall, 1993 - Fall, 1994; and Fall, 1995 - Winter, 1996.

Courses assisted (lower division): Elementary Statistics (13)

Courses assisted (upper division): Introduction to Probability, Modeling and Statistical Inference (102); Applied Statistics for Business and Economics (103); Applied Statistical Methods: Analysis of Variance (106); Mathematical Statistics for Economists (133); Sampling Theory (144).

Courses assisted (graduate level): Advanced Time Series Analysis (237AB).

Research Assistant, Division of Statistics, University of California, Davis.

Fall, 1995.

Coordinate seminar series under the supervision of Professors Jessica Utts and Jane-Ling Wang on using computing tools as classroom instructors and assistants; deliver the seminars for the topics "E-mail", "Talk and irc", "Library reference computers", and "The World Wide Web and HTML".

Computing Facilitator, Teaching Resources Center, University of California,

Davis.

Summer, 1994; Spring and Summer, 1995; Summer, 1996; and Summer, 1998.
Led sessions for teaching assistants on how to teach mainframe computing skills to undergraduates, e.g. e-mail, newsgroups, gopher, and talk. Assisted in sessions for teaching assistants on how to use the World Wide Web. Assisted in similar sessions for faculty members.

Senior Learning Skills Counselor, Learning Skills Center, University of California, Davis.

Fall, 1993 - Fall, 1994.

Assisted students with statistics questions from any undergraduate course; led discussion section with examples for the Elementary Statistics classes.

Research Assistant, Graduate School of Management, University of California, Davis.

Spring, 1992 - Summer, 1993.

Provided programming assistance for Professor David Bunch on program for logit and probit modeling.

COMPUTING SKILLS

Working knowledge of TeX and LaTeX (for mathematical typesetting) and HTML; Unix mainframe computing and Windows; FORTRAN programming; and extensive use of SAS, MINITAB and R. Have also used GAUSS, SHAZAM, and Excel packages and Pascal and Visual Basic programming languages.

PROFESSIONAL and UNIVERSITY SERVICE:

- Associate Editor of *The American Statistician*, 2012-present.
- CSUEB College of Science Representative to, and Chair of, the Committee on Instruction and Curriculum, 2014-present.
- CSUEB College of Science Representative to, and Secretary of, the General Education Subcommittee, 2013-present.
- CSUEB College of Science Representative to, and Chair of, the University Administrative Review Committee, 2012-present.
- Member, Academic Senate Executive Committee 2011-present.

- Representative of CIC to Semester Conversion Steering Committee, 2015-present.
- CSUEB College of Science Representative to the Retention, Promotion, and Tenure Subcommittee, 2014-2015.
- Faculty Representative to the CSUEB WASC Steering Committee, 2012-2015.
- CSUEB At-large Academic Senator 2010-2014.
- Chair of Academic Senate 2012-2014.
- Chair of Information Technology Advisory Committee, 2012-2014.
- CSUEB College of Science Representative to the Faculty Affairs Committee Fall, 2012 and Spring, 2013.
- CSUEB College of Science Representative to the Search Committee for Vice President of Administration and Finance/CFO 2011-2012.
- Chair, Review Committee for Director of Office of Faculty and Professional Development 2011.
- CSUEB College of Science Representative to the Faculty Affairs Committee Spring, 2011.
- CSUEB College of Science Representative to the Committee on Instruction and Curriculum 2007-2009.
- CSUEB College of Science Representative to the Faculty Support Services Advisory Committee 2008-2009.
- Organizer for the *Symposium on Statistics and Operations Research in Baseball*, July 11, 2007.
- CSUEB College of Science Academic Senate Representative 2005-2009.
- CSUEB College of Science Curriculum Committee member 2005-2007.
- CSUEB Department of Statistics Hiring Committee member (2 committees) 2006, Hiring Committee Chair 2007.
- Referee for: *Journal of the American Statistical Association*, *Modeling and Prediction: Honoring Seymour Geisser*, *Journal of Forecasting*, *American Statistician*, *Journal of Statistics Education*, *Communications in Statistics*.
- UMR College of Arts and Science Curriculum Committee member 1997-1999.
- ASA Chapter Representative for Mid-Missouri Chapter, 1998.
- Founding Webmaster for UCD Division of Statistics, 1994-1996.
- Maintain Amstat Online's "List of Graduate Programs in Statistics", 1993-present.
- Faculty Advisor to the UMR Racquetball Club, 1996-1999.

AWARDS and SOCIETIES:

- 1999 Recipient of the UMR Management Systems Student Organization Award for Outstanding Faculty Member.

- 1996 Recipient of the UC Davis Teaching Award for Outstanding Graduate Students.
- Member of the American Statistical Association.
- 1991 Bachelor's degree with Departmental Distinction from UC San Diego.
- 1990-1991 Provost's Honors List (3 times) at UC San Diego.