

Michael A. Posner

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- Education**
- Ph.D.** 2006 – **Biostatistics**, Boston University School of Public Health.
Thesis: “Propensity Scores: When Are They Needed and Methods of Implementation”
Arlene Ash, Advisor.
- M.S.** 1996 - **Statistics**, Carnegie Mellon University.
Awarded Full Tuition Scholarship and Teaching Assistantship.
- B.A.** 1994 - **Statistics and Economics**, University of Rochester.
Distinction in Statistics, *Distinction* in Economics, *Dean’s List* all semesters.
Certificate of Special Citation in Mathematical Economics, Management Certificate in Information Systems, Certificate in Actuarial Studies.
- Special Skills** Worked with Computers including Unix, DOS, Windows, HTML, LaTeX, PowerPoint, Word, Excel, Access, and statistical software including SAS (including macro programming), Minitab, S+/R, nQuery, DataDesk, JMP, StatTransfer, DBMS copy, DBMS engines, and Excel’s statistics toolpack. Proficient in Hebrew and Spanish.
- Teaching Experience**
- August 2005 – Present, Villanova University Department of Mathematical Sciences, Villanova, PA
Assistant Professor of Statistics: Undergraduate courses include introductory statistics (for non-majors), statistical methods (for majors), and statistics for health care research (for nursing majors). Graduate courses include regression methods, statistical methods I and II, nonparametrics, and survival analysis. Developed courses on becoming a teacher of statistics and statistical computing. Research includes dealing with selection bias in observational studies through the use of propensity scores, public health research, educational research, and statistics education research.
- September 1999 – February 2005, Boston University School of Dental Medicine, Boston, MA
Instructor: Designed syllabus and lectured biostatistics course for 35-45 post-graduate dental students. Initiated modification to the curriculum with Assistant Dean for Advanced Education expanding statistical training of students by extending the class into second semester, including computer training and journal article review. Provided guidance to students conducting individual research.
- September 2002 – December 2004, Boston University Department of Mathematics & Statistics, Boston, MA
Lecturer: Designed syllabus and lectured a two-semester introductory statistics course, including SAS, for 125 undergraduate students. Supervised teaching fellow and graders. Supervised student research projects where small groups designed a study, gathered and analyzed data, and wrote up a report. (overall rating of 4.8 out of 5 on ratemyprofessor.com)
- September 1998 – June 2004, Boston University School of Public Health, Boston, MA
Instructor (2002 – 2003): Designed and co-lectured two semesters of intermediate biostatistics and one semester of introduction to statistical computing (using SAS) for medical fellows and other public health students.
Lab Coordinator (2000 – 2004): Designed computer laboratory modules for introductory biostatistics course using Excel for MPH students. Hired and supervised instructors.
Lab Instructor: Lectured and graded for Excel lab supplement for introductory biostatistics course using Excel for MPH students.
- May - June 1996, Department of Statistics, Carnegie Mellon University.
Instructor: Designed syllabus and responsible for classroom lecturing, computer lab supervision, and assigning grades for introductory statistics class of 34 students.
- January 1992 – May 1996, Departments of Statistics, University of Rochester/Carnegie Mellon University

Teaching Assistant: Lectured to 10-40 students. Held office hours and review sessions. Administered and graded exams. Nine semesters including Applied Statistics I, Sampling Techniques, Statistical Reasoning, Statistical Methods.

**Other
Professional
Experience**

February 2008 – Present, Independent Consultant.

Consultant: Provide statistical and technical expertise on a contractual basis, including review of legal appeals relating to Medicare overpayment determination, analysis of educational data, secondary analysis of public health data, and a study of small area variations in hospitals.

June 1998 – October 2005, Boston Medical Center’s Data Coordinating Center and Health Care Research Unit, Boston, MA

Statistical Manager: Served as data manager, statistical programmer and manager, and biostatistician involved in all aspects of medical and public health studies with various departments and offices throughout Boston University School of Public Health, Boston University School of Medicine, and Boston Medical Center. Published articles in peer-reviewed journals and assisted in grant writing. Supervised and trained research assistants. Presented research at internal and national professional meetings. Projects included examining mortality following heart attacks, Medicare resource use before end-of-life, follow-up to abnormal mammography, Haitian study of breast and pap screening, Massachusetts small area variation in hospital outpatient/inpatient use, examining the effects of respite care on readmission, a behavioral modification study at STD clinic, analyzing the physical and neuropsychological development in a cohort of babies with in-utero exposure to cocaine, working for the Research Data Assistance Center - a CMS (HCFA)-funded group to help non-profit researchers use Medicare data, and providing statistical support for the Section of General Internal Medicine at Boston Medical Center as part of the Health Care Research Unit.

November 2001 – November 2002, Independent Consultant.

Independent Consultant: Provided statistical and technical expertise to a researcher at Boston College School of Nursing examining mental health practices using Medicare data.

July 1996 – May 1998, New England Research Institutes, Boston, MA.

Biostatistician: Analyzed proficiency panel data and assessed and developed scoring methods for new HIV assays. Determined methods and conducted analyses for *Hemophilia Growth and Development Study*. Assisted in proposal development. Taught short courses on S-PLUS and “SAS for non-statisticians”. Designed and maintained Public Health links page and internal macro/function library with HTML interface. Trained new statistician.

July 1993 - September 1994, Office of the Vice-President for Enrollment, Placement, Alumni Relations, and Development, University of Rochester. Rochester, NY.

Program Assistant: Conducted research on student aid grants. Supervised four students doing coding and recording of surveys. Designed and analyzed control groups. Oversaw data analysis. Edited book. Invited to and attended Rochester Conference on Career Related Work and Student Aid. Assisted in publication of *Shaping the College Experience Outside the Classroom* by James Scannell and Kathleen Simpson (1995).

January 1993 - May 1994, Learning Assistance Services, University of Rochester. Rochester, NY.

Study Group Leader: Designed and taught study groups and review sessions for statistics classes.

Program Assistant: Responsible for locating, interviewing, and hiring statistics study group leaders. Maintained groups during the year. Conducted intake interviews with students to determine type of tutoring or assistance needed.

June - August 1991, United States Department of Energy, Washington, D.C.

Statistical Aide for the Office of Statistical Standards, Energy Information Administration: Researched causes for outlying data, reviewed reports, and assisted in estimating energy models.

Publications

- *Toward Assessing Understanding of Prerequisite Knowledge for Sampling Distributions.* Michelle Sisto, Tisha Hooks, **Michael A. Posner**, Dale Berger. Proceedings from the International Conference on Teaching Statistics, 2010.

- *Brief Substance Abuse Treatment with Urban Adolescents: A Translational Study.* Michael J. Mason, **Michael A. Posner.** Journal of Child & Adolescent Substance Abuse, 2009; 18:2;193-206. (cited 1 times as of January 2010, according to Google Scholar)
- *Post-Hospital Medical Respite Care and Hospital Readmission of Homeless Persons.* Stefan Kertesz, **Michael A. Posner,** Stacy Swain, Arlene Ash, Michael Shwartz. Journal of Prevention and Intervention in the Community, 2009; 37:1-14. (This research was used in congressionally mandated review of the impacts of respite units and in a European study of respite units. It was cited 4 times as of August 2010, according to Google Scholar)
- *Statistics Education Graduate Programs.* March, 2009. Report to American Statistical Association, endorsed by ASA Executive Committee. Invited member as part of ASA Member Initiative.
- *Evaluating Pedagogical Techniques In Introductory Statistics: Proficiency Grading And Assignment Resubmission.* **Michael A. Posner.** Proceedings from the International Association of Statistics Education Conference on Assessment, August 2007. (Cited 1 time as of August 2010, according to Google Scholar)
- *Improving Follow-Up to Abnormal Breast Cancer Screening in an Urban Population: A Patient Navigation Intervention.* Tracy A. Battaglia, Kathryn Roloff, **Michael A. Posner,** Karen M. Freund. Cancer, 2006; 109(2 Suppl): 359-67. (cited 61 times as of August 2010, according to Google Scholar)
- *Evaluation of the Center for Disease Control and Prevention's Recommendations Regarding Routine Testing for Human Immunodeficiency Virus on an Inpatient Service. Who are we missing?* Greenwald, JL, Rich, CA, Bassega, S, **Posner, MA,** Maeda, JL, Skolnik, P. Mayo Clinic Proceedings, 2006; 81(4): 452-8. (cited 11 times as of August 2010, according to Google Scholar)
- *Pap Smear Rates Among Haitian Immigrant Women in Eastern Massachusetts.* Eric Green, **Michael A. Posner,** Karen M. Freund, Michele David. Public Health Reports, 2005; 120: 133-139. (cited 9 times as of August 2010, according to Google Scholar)
- *Do Variations in Disease Prevalence Limit the Usefulness of Population-Based Hospitalization Rates for Studying Variations in Hospital Admissions?* Michael Shwartz, Erol Pekoz, Arlene Ash, **Michael A. Posner,** Joseph Restuccia, Lisa Iezzoni. Medical Care, 2005; 43: 4-11. (cited 10 times as of August 2010, according to Google Scholar)
- *Mammography Use.* Michele David, Lindo Ko, **Michael A. Posner,** Eric Green, Karen M. Freund. Journal of the National Medical Association, 2005;97:2:1-9. (cited 15 times as of August 2010, according to Google Scholar)
- *Comparing the Importance of Disease Rate Variation vs. Practice Style Variation in Explaining Small Area Variations in Hospitalization Rates for Two Respiratory Conditions.* Erol Pekoz, Michael Shwartz, Lisa Iezzoni, Arlene Ash, **Michael A. Posner,** Joseph Restuccia. Statistics in Medicine, 2003; 22:1775-1786. (cited 6 times as of August 2010, according to Google Scholar)
- *Using Claims Data to Examine Mortality Trends Following Hospitalization for Heart Attack in Medicare.* Arlene S. Ash, **Michael A. Posner,** Lindsey Bramwell, Jeanne Speckman, Shakira Franco, Andrew Yacht. Health Services Research 2003;38:5:1253-1262. (cited 43 times as of August 2010, according to Google Scholar)
- *Comparing Standard Regression, Propensity Score Matching, and Instrumental Variables Methods for Determining the Effectiveness of Mammography in Older Women.* **Michael A. Posner,** Arlene Ash, Michael Shwartz, Karen Freund, Mark Moskowitz. Health Services and Outcomes Research Methodology, 2001; 2:279-290. (cited 12 times as of August 2010, according to Google Scholar. Also used in course at Case Western Reserve University. Winner, 2001 Health Policy in Statistics Section Student Paper Competition.)
- *Do "We Just Know"? Masked Assessors' Ability to Accurately Identify Children with Prenatal Cocaine Exposure.* Ruth Rose-Jacobs, Howard Cabral, **Michael A. Posner,** Jennifer Epstein, Deborah Frank. Journal of Developmental and Behavioral Pediatrics 23(5):340-346, October 2002. (cited 5 times as of August 2010, according to Google Scholar)
- *Cervical Cancer Screening Rates in Haitian Communities in the Greater Boston Area.* Green EH, Ko LK, **Posner M,** Freund KM, Prudent N, David M.. Journal of General Internal Medicine 2002;16 (s1):159.
- *Children Who Witness Violence and Parent Report of Child Behavior.* Marilyn Augustyn, Deborah Frank, **Michael A. Posner,** Barry Zuckerman. Archives of Pediatric and Adolescent Medicine 156:800-803, August 2002. (cited 15 times as of August 2010, according to Google Scholar)
- *Quantifying Practice Effects in Longitudinal Research with the WISC-R and WAIS-R: A Study of Children and Adolescents with Hemophilia and Male Siblings Without Hemophilia.* Patricia A. Sirois, **Michael A. Posner,** James A. Stehbins, Kate A. Loveland, Sharon Nichols, Sharyne M. Donfield, Terese S. Bell, S. D. Hill, Nancy Amodei, and the Hemophilia Growth and Development Study. Journal

of Pediatric Psychology, 27;2;121-131, March 2002. (cited 3 times as of August 2010, according to Google Scholar)

- *Final Report: Risk Adjustment Models to Examine AMI Mortality Trend.* Arlene S. Ash, **Michael A. Posner**, Christine Chaisson, Jeanne Speckman, Shakira Franco, Andrew C. Yacht, Deb Caldwell, Michael Hadad, Mark A. Moskowitz. Centers for Medicare and Medicaid Services. December 2001. Revised in June 2002.
- *Final Report: More Disease: How Major a Factor is Higher Utilization?* Michael Shwartz, Arlene Ash, **Michael A. Posner**, Erol Pekoz, Joseph Restuccia. Agency for Healthcare Research and Quality, Grant #R03 HS09832-01. August 2001.
- Assisted in publication of Shaping the College Experience Outside the Classroom (The University of Rochester Press) by James Scannell and Kathleen Simpson (1995).

Publications – In Progress

- *Managing the grading paradox: Leveraging the power of choice in the classroom.* Shoshana Dobrow, Wendy K. Smith, **Michael A. Posner**. Provisional acceptance to Academy of Management Learning & Education, 2010.
- *Evaluating a Proficiency-based Assessment and Reassessment of Learning Objectives System.* **Michael A. Posner**. Submitted to Statistics Education Research Journal, 2009. Revise and resubmit, 2010. Resubmitted, 2010. This research led to the funding of a \$2.4mil, 4 year National Science Foundation Discovery Grant (DRK-12) on “Engaging Secondary School Students and Teachers Through a Proficiency-based Assessment and Reassessment of Learning Objectives (PARLO) System in Mathematics.”
- *Digital Diversity: Age, Race/Ethnicity, and Gender of Streaming Video Performers.* Leonard Shyles, Emory Woodard, Brett Lysak, Heather Hundley, **Michael A. Posner**. Submitted to Journal of Computer-Mediated Communication, 2010. Paper also presented at National Communication Association’s 95th Annual Convention, Nov 2009.
- *Teaching and Learning Statistics at the Postsecondary level.* June 2010, Report in progress. Report to American Statistical Association. Invited member as part of ASA Member Initiative.
- *The Psychological, Physical, and Outlook of Life Domains of Health-Related Quality of Life among Young Adult Survivors of Childhood Cancer.* Mary Ann Cantrell, **Michael A. Posner**. Submitted to Oncology Nursing Forum, 2010.
- *Weighting within Strata: A New Method of Propensity Score Sample Selection.* **Michael A. Posner**, Arlene S. Ash. To be submitted, 2010.
- *Tobacco and Alcohol Use Among Adolescents and Young Adults with a History of Asthma.* Elizabeth Dowdell, **Michael A. Posner**, M. Katherine Hutchinson. To be submitted to Journal of Adolescent Health, 2010.
- *Towards an Understanding of Prerequisite Knowledge of Sampling Distributions.* Tisha Hooks, Michelle Sisto, **Michael A. Posner**, and Dale Berger. To be submitted to the Journal of Statistics Education, 2010.
- *Instructor Characteristics Associated with Student Appreciation of Statistics.* **Michael A. Posner**, Phil Yates. To be submitted to Journal of Statistics Education, 2010.
- *Childhood Cancer Survivors and Risky Behavior.* Mary Ann Cantrell, **Michael A. Posner**. To be submitted, 2010.
- *When Standard Regression Fails: The Role of Propensity Score Analysis.* **Michael A. Posner**, Arlene S. Ash. In progress.
- *Should I Use Gain Scores to Determine Treatment Effect from a Pretest-Posttest Design?: A Simulation Study.* **Michael A. Posner**, Michele Millar, Phil Yates. In progress.
- *Demographic Diversity: Exposure Patterns in the Digital Domain.* Daniel E. Trucil, David J. Penyak, Leonard Shyles, Heather Hundley, Emory Woodard IV, **Michael A. Posner**. In progress. Paper also presented at National Communication Association’s 96th Annual Convention, Nov 2010.
- *The Effect of Previous AMI on Mortality Following Subsequent AMI.* **Michael A. Posner**, Arlene S. Ash.

Grants

- Awarded

- National Science Foundation Discovery Grant (DRK-12) entitled “Engaging Secondary School Students and Teachers Through a Proficiency-based Assessment and Reassessment of Learning Objectives (PARLO) System in Mathematics”. \$2.4 million, 4-year grant to examine an innovative assessment paradigm based on the Young Women’s Leadership Charter School in Chicago and Posner’s classroom-based research study. My role is Statistician and Co-Principal Investigator.
- Sub-award from National Science Foundation-funded Math Science Partnership of Greater Philadelphia for \$40,000 over two years to study formative assessment in the statistics classroom. My role is Principal (sole) Investigator.
- “Examining the Link Between Being a Survivor of Childhood Cancer and Risky Behaviors in Adolescence” through the Center for Nursing Research at the Villanova University College of Nursing. PI: Mary Ann Cantrell. The grant was funded for an amount of \$3000. My role is statistician.
- Examining the Visual Impairment of Women through the Center for Nursing Research at Villanova University College of Nursing. PI: Nancy Sharts-Hopko. The grant was funded for an amount of \$1500. My role is statistician.
- Under Review/In Progress
 - William Penn Foundation grant on the link between lead exposure and education outcomes in Philadelphia. The proposal is currently on hold.
- Not Awarded
 - National Science Foundation Discovery Grant (DRK-12) on “Proficiency-based Assessment and Reassessment of Learning Objectives”. \$3.7m, 5-year grant to examine similar protocol to that done on pilot classroom-based research study. My role was primary statistician and Principal Investigator. Encouraged to “Revise & resubmit” by program officer.
 - National League for Nursing’s 2008 Education Grants Program grant with Dr. Marilyn Fetter. \$12,800.
- Advisory Board/Reviewer
 - Gender-Ethnic Identification and the Development of STEM Achievement Behaviors. NSF REESE Grant, 2009-2012. PI: Nicole Else-Quest. I am serving on the Advisory Board.
 - The Use of Games for Experimental Design. NSF TUES grant application. PI: Shonda Kuiper. I will be serving on the Advisory Board. Under review.

Presentations (including my work presented by co-investigators)

- *Should I Use Gain Scores to Determine Treatment Effect from a Pretest-Posttest Design?: A Simulation Study.* Joint Statistical Meetings 2010.
- *Instructor Characteristics Associated with Student Appreciation of Statistics.* Presented by Phil Yates. Joint Statistical Meetings 2010.
- *Toward Assessing Understanding of Prerequisite Knowledge for Sampling Distributions.* Presented by Michelle Sisto, International Conference on Teaching Statistics, July 2010. Presented by Tisha Hooks, Joint Statistical Meetings, 2010.
- *Using Online Homework Assessments.* Roundtable at Joint Statistical Meetings, 2010.
- *Assignment Resubmissions: Classroom-based innovations...from research to practice.* Villanova Institute for Teaching and Learning’s Teaching and Learning Strategies, 2010 and Lilly DC Conference on College and University Teaching, 2010.
- *Managing the grading paradox: Leveraging the power of choice in the classroom.* Presented by Shoshana Dobrow, 2010 Academy of Management Annual Meeting. Awarded “Best Paper” and published in Best Paper Proceedings. Also awarded Management Education and Development Division Best Paper in Graduate Management Education. Also presentation at Lilly East Conference on College and University Teaching, 2010 (co-presented by Michael A. Posner and Wendy K. Smith).
- *The Health-Related Quality of Life of Childhood Cancer Survivors.* Presented by Mary Ann Cantrell. Villanova University College of Nursing 2010 Annual Research Symposium on “The Many Dimensions of Nursing Research”.
- *Demographic Diversity: Exposure Patterns in the Digital Domain.* National Communication Association’s 96th Annual Convention, 2010. Presented by Daniel Trucil.
- *Weighting Within Strata: A New Propensity Weight.* Will be part of AERA 2011 Symposium on *Propensity Score Analysis: Current Issues and New Developments.* Joint Statistical Meetings, 2009. International Conference on Health Policy Statistics, 2008.

- *Letting Go of the Idea that Stats can't be FUN and FUNctional.* With Dennis Pearl, Larry Lesser, and Shonda Kuiper. Invited presentation. US Conference on Teaching Statistics, 2009.
- *Towards an Understanding of Prerequisite Knowledge of Sampling Distributions.* With Dale Berger, Michelle Sisto, and Tisha Hooks. US Conference on Teaching Statistics, 2009.
- *The Magic of Statistics...Revealed.* Philadelphia Area Statistics Teachers' Alliance, May 2009. 2007 United States Conference on Teaching Statistics.
- *Making Valid Inferences from Observational Studies Using Propensity Scores.* Villanova University's Department of Mathematical Sciences Colloquium, March 2009. Saint Joseph University's Department of Mathematics Colloquium, March 2009. Kutztown University of Pennsylvania's Department of Mathematics Colloquium, February 2009.
- *Proficiency-based Assessment and Reassessment of Learning Objectives: An Evidence-based Experiment.* Young Mathematicians Network Poster Session, Joint Mathematics Meetings, 2009. Math Science Partnership of Greater Philadelphia Research Meeting, 2009. Joint Statistical Meetings, 2008. Villanova University's Institute for Teaching and Learning's "Teaching and Learning Strategies 2008". Lilly-East Conference on College and University Teaching, 2008 (best poster award).
- *Digital Diversity: Age, Race/Ethnicity, and Gender of Streaming Video Performers.* National Communication Association's 95th Annual Convention, 2009. Presented by Len Shyles.
- *Outcomes-based Proficiency Assessment in an Introductory Statistics Course: An Experiment.* Joint Mathematics Meetings, 2008. Math and Science Partnership Research Conference, October 2007 (work presented in absentia by Robert Styer).
- *Evaluating Pedagogical Techniques: Proficiency Grading and Assignment Resubmission.* 2007 International Association of Statistics Education Conference on Assessment.
- *When Standard Regression Fails: The Role of Propensity Scores.* 2007 Joint Statistical Meetings.
- Research in progress talk. 2007 Math Science Partnership of Greater Philadelphia Research and Evaluation Team.
- *Secondary Data Analysis.* Villanova University College of Nursing, 2007.
- *Experiences from Formative Assessment Seminar.* 2007 Math Science Partnership Learning Network Conference. Co-presented with Victor Donnay.
- *Formative Assessment.* Villanova University's Institute for Teaching and Learning's "Teaching and Learning Strategies 2006", May 18, 2006.
- *Examining the Trends and Predicting Future Medicare Cost of Non-Melanoma Skin Cancer.* Ross Zeltser, Gary Rogers, Michael A. Posner. 2005 American Society for Dermatologic Surgery (ASDS) ACMMSO Combined Annual Meeting.
- *Differences in Medicare Utilization at End of Life by Race, Ethnicity and Age.* Amresh Hanchate, Yinong Young-Xu, Michael A. Posner, Veeran-Anne Singh, Ezekiel Emanuel, Norman Levinsky, Arlene Ash, Jennifer Fonda. American Public Health Association, 2004. Winner, 2004 Betty J. Cleckley Minority Issues Research Award. This work led to the publication of *Can Primary Care Visits Reduce Hospital Utilization Among Medicare Beneficiaries at the End of Life?* (Kronmen, et. al., J Gen Intern Med 23(9):1330-5).
- *The Effect of Previous AMI on Mortality Following Subsequent AMI.* Michael A. Posner, Arlene S. Ash, Eric Green. Medical Care Section, American Public Health Association, 2003. Winner, 2003 Student Paper Competition for Medical Care Section of the American Public Health Association.
- *Does Hospital Discharge To A Homeless Medical Respite Unit Avert Readmission?* S.G. Kertesz, S. Swain, M. Posner, M. Shwartz, J. O'connell, A.S. Ash. Society of General Internal Medicine, 2003.
- *Acculturation in Haitians.* Eric Green, Michael A. Posner, Karen Freund, Michele David. Society of General Internal Medicine, 2003.
- *Comparing Standard Regression, Propensity Score Matching, and Instrumental Variables Methods for Determining the Effectiveness of Mammography in Older Women.* Joint Statistical Meetings, 2001. Award best student paper by Health Policy Statistics Section.
- *Using Medicare and Medicaid Data for Health Services Research.* International Conference on Health Policy Research, 2001.
- HCFA/CMS 103 course – Introduction to Medicare Cost and Payment Data. Six times, 1999-2001.
- *Using SAS Macros.* Data Coordinating Center, Boston University School of Public Health, 2000.
- *Prevalence of STDs Among Homeless Persons Not Seeking Medical Care.* Jonathan Howland, Barbara L. Lambl, Sara Minsky, Patricia Martins, Michael Posner, Ellen Klein, William DeJong, Peter A. Rice. American Public Health Association, 1999.

- *Predicting Recurring Disease Among Patients Presenting at an Inner-city STD Clinic.* Howland J, Minsky S, Martins P, Posner M, Klein E, Rice PA, Lamb BL, DeJong W. International Society of STD Research, 1999.
- S+ for statisticians and SAS for non-statisticians. New England Research Institutes, 1997-1998.

Awards and Honors

- Villanova University's Faculty Award for Innovative Teaching, 2010. This award is given annually to a full-time professor whose courses employ creative techniques to enhance student learning and growth.
- Best paper award, "*Managing the grading paradox: Leveraging the power of choice in the classroom*". This article will be printed in the Best Paper Proceedings for the 2010 Academy of Management Meeting. Also awarded Management Education and Development Division Best Paper in Graduate Management Education
- Best poster presentation, Lilly-East Conference on College and University Teaching, 2008. *Proficiency-based Assessment and Reassessment of Learning Objectives: An Evidence-based Experiment*
- Selected as Project NEX T Fellow, Mathematical Association of America, 2006-2007. Project NEX T (New Experiences in Teaching) is a professional development program for new or recent Ph.D.s in the mathematical sciences. It addresses all aspects of an academic career: improving the teaching and learning of mathematics, engaging in research and scholarship, and participating in professional activities. It also provides the participants with a network of peers and mentors as they assume these responsibilities. It is a selective program and its alumni have been very active in their professional endeavors.
- Nominated and accepted as full member of Sigma Xi scientific research society, 2006. Previously nominated and accepted as associate member, 1996.
- 2004 Betty J. Cleckley Minority Issues Research Award, American Public Health Association Meeting for *Differences in Medicare Utilization at End of Life by Race, Ethnicity And Age.*
- 2003 Student Paper Award from Medical Care Section of the American Public Health Association. *The Effect of Previous AMI on Mortality Following Subsequent AMI.* Presented at the American Public Health Association in 2003 in San Francisco.
- 2001 Health Policy in Statistics Section Student Paper Award for *Comparing Standard Regression, Propensity Score Matching, and Instrumental Variables Methods for Determining the Effectiveness of Mammography in Older Women.* Presented at the Joint Statistical Meetings in 2001.
- Dean's Award for Dissertational Research, 2001 Boston University Graduate Student Science Research Day.
- Semi-finalist in ASA Hands-On Statistics Activity Competition for "The Magic of Statistics...Revealed". Winner to present at the USA Science and Engineering Festival in Washington, DC, October, 2010. Seven of eighteen submissions were selected as semi-finalists.
- Honorable mention, 2002 Boston University Biostatistics Department Student Paper Award Competition.
- Nominated for ASA Section on Education's Waller Education Award, 2003 and 2009.
- Nominated for MAA's Henry L. Alder Award for Distinguished Teaching by a Beginning College or University Mathematics Faculty Member, 2010.
- Nominated for 2004 Norman A. Scotch Award for Excellence in Teaching, the highest award for teaching at the Boston University School of Public Health.
- Nominated for Boston University School of Medicine Educator of the Year award, 2000.
- Nominated for Carnegie Mellon University's 1996 Graduate Student Teaching Award.

Professional Service

- Member, ASA YouTube Task Force to increase public awareness about the profession of statistics, 2010-11. Appointed by President of American Statistical Association.
- Member, MAA/ASA Joint Committee on Statistics, 2009-2011. Appointed by President of Mathematics Association of America.
- Executive Committee Member-at-Large, Section on Statistical Education of the American Statistical Association, 2009-2011. This section on stat ed is one of the largest sections of the ASA with over 1200 members.

- Chair-Elect (2008), Chair (2009), and Past-Chair (2010) of Special Interest Group of the Mathematical Association of America for Statistics Education.
- Active Member, Collaborative Mathematics Education Research Group (CoMERG), 2010 – Present. Brings together Mathematics Education researchers in the Philadelphia region.
- Selected as a CAUSE Activist, participating in national meetings of current issue in statistics education. CAUSE, the Consortium for the Advancement of Undergraduate Statistics Education, is funded by the NSF. Selected to be involved in three CAUSE research clusters to promote statistics education research - *CAUSEmos Research Cluster*, 2007-2009 and the *CAUSEmos Fun Cluster* and *AttitudeCluster*, 2009-2011.
- Selected for participation in “Research Retreat on Teaching and Learning Statistics at the Postsecondary level” to set the national research agenda for Statistics Education Research. Twelve participants were selected from across the country. June, 2010.
- Selected for American Statistical Association’s Member Initiative Workshop on Statistics Education Graduate Programs. One of 17 attendees assisted in writing proposal on how to create and foster statistics education research and graduate programs in the United States. October, 2008. Report approved by ASA executive board in 2009.
- Selected as participant in CAUSEmos research cluster to develop collaborative research teams in statistical education research, 2007-2009. Selected as participant in CAUSE research cluster to examine the use of fun in the statistics classroom, 2009-2011. Selected as participant in CAUSE research cluster to examine student attitudes towards statistics, 2009-2011.
- Expert reviewer, Reasoning about P-values and Statistical Significance (RPASS-6), 2007.
- Poster competition judge. Special Awards Judge for the American Statistical Association of Philadelphia at Delaware Valley Science Fair, 2008. Undergraduate student poster judge, Joint Mathematics Meetings, 2007 and 2008. Coordinator of Special award for Excellence in Statistics for Joint Mathematics Meetings, 2009.
- Invited speaker for University of Delaware’s “Faculty Roles in Institutions of Higher Education” on July 2, 2008. Spoke with students about being junior faculty member at Villanova.
- Co-taught mini-course on Teaching Introductory Statistics, Joint Mathematics Meetings 2011.
- Presented CAUSE workshop on Teaching Introductory Statistics, Joint Mathematics Meetings 2010.
- Member, Math Science Partnership of Greater Philadelphia’s Research and Evaluation Team, 2006 – 2008.
- Refereed articles for *Medical Care*, 2007 and 2009, and *Journal of Statistics Education*, 2008 and 2009. Invited to review grants on statistics education research for NSF, 2007-2009.
- Chaired, moderated, and organized over 20 sessions, panels, or roundtables at the Joint Statistical Meetings, Joint Mathematics Meetings, MathFest, and American Educational Research Association Meetings.

University Service

- Chair, Statistics and Data Analysis Working Group. Review statistics and data analysis courses at Villanova to suggest curricular reform, collaborative research, and consulting opportunities across the university, 2010. In the process of being formed.
- Faculty Associate, Villanova University School of Business Center for Business Analytics, 2010 – present.
- Creator and Moderator, LinkedIn Professional Networking Group for Villanova University Applied Statistics Graduate Program Alumni, 2009 – present.
- Member, Graduate Applied Statistics Committee, 2005 – present.
- Member, BS-MS 5-year program in Applied Statistics Committee, 2005 – present.
- Faculty advisor, Villanova University Hillel, 2006 - 2007. Active faculty member, 2005-present. Organized guest lecture on “Moral Education in Public and Private Schools” by Rabbi Dr. Judd Levinston, co-sponsored with Office of Mission and Ministry, Program in Ethics, and Department of Education and Human Services, February 25, 2010.
- Chair, Department of Mathematical Science’s Diversity Committee, 2005 - 2006.
- Presenter, Villanova Institute for Teaching and Learning’s “Teaching and Learning Strategies,” 2006, 2008, and 2010.
- SafeZone volunteer, 2007 – present.

- Invited to represent the Biostatistics Department at Boston University School of Public Health's planning retreat to determine the future direction of the school, 2004.
- Student representative, Faculty Search Committee, Department of Biostatistics, Boston University School of Public Health, 2002-2004.

Professional Memberships

- Member, *American Statistical Association*, 1991-present.
 - Appointed by President of ASA to serve on YouTube Task Force to increase public awareness about the profession of statistics, 2011.
 - Elected Member-at-Large, Executive Committee, Section on Statistical Education, 2009-2011.
 - Active member, Philadelphia Area Statistics Teachers Alliance (PASTA), 2008-present.
 - Member, Program Committee, *Boston Chapter of the American Statistical Association*, 1997-2005. Served three terms as Treasurer, 2000-2005.
 - Chaired, moderated, and organized a number of sessions and roundtables at JSM.
- Member, *Mathematical Association of America*, 2005-present.
 - Appointed by President of MAA, ASA/MAA Joint Committee on Undergraduate Statistics, 2010-2012.
 - Elected Chair-Elect/Chair/Past-Chair, Special Interest Group of the MAA (SIGMAA) for Statistics Education, 2008-2010.
 - Project NExT Fellow, 2006-2007.
 - Chaired, moderated, and organized a number of sessions at JMM and MathFest.
- Member, *The American Educational Research Association*, 2008-present. Organized two symposia for AERA Meeting, 2011.
- Member, *The International Association of Statistical Education*, 2007-present.
- Member, *Sigma Xi Scientific Research Society*. Full member, 2006 – present. Associate member, 1996-2006.
- Member, *American Public Health Association*, 1999-2005.
- Member, *Society of Clinical Trials*, 1997-1999.
- Member, Boston Area SAS User's Group, 1997.

Last Updated September, 2010