

## 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.
- Accreditation**      Accredited Professional Statistician (PStat<sup>®</sup>) from the American Statistical Association since 2011.
- 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, PHStat, and Excel’s statistics toolpack. Proficient in Hebrew and Spanish.
- Teaching Experience**      August 2005 – Present, Villanova University Department of Mathematics and Statistics, Villanova, PA  
**Associate Professor of Statistics (2011 – Present), Assistant Professor of Statistics (2005 – 2011):**  
Undergraduate courses include Introductory Statistics (for non-majors), Statistical Methods (for STEM majors), Business Statistics, and Statistics for Health Care Research (for nursing majors). Graduate courses include Regression Methods, Statistical Methods I and II, Nonparametrics, Survival Data Analysis, and Statistical Programming. Developed courses on becoming a teacher of statistics and statistical programming. Research includes statistics education research, public health research, dealing with selection bias in observational studies through the use of propensity scores, and Medicare overpayment extrapolation. Supervised student research projects in education, ecology, and public health.
- September 2015 – July 2016, University of Cambridge, Cambridge, UK  
**visiting faculty:** met with faculty in the Statistics Laboratory, Department of Pure Mathematics and Mathematical Statistics, Centre for Mathematical Sciences and Faculty of Education. Gave presentations at University of Cambridge and other organizations in the UK.
- 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.
- 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**

November 2001 – Present, Independent Consultant.

**Independent Consultant:** As an Accredited Professional Statistician of the American Statistical Association, provide statistical and technical expertise on a contractual basis. Work includes statistical expert and expert witness relating to Medicare overpayment determination and insurance fraud (including testifying before an ALJ), analysis of educational data, and public health research. Biostatistics educator and consultant for medical residents at a local hospital.

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.

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.

**Peer-Reviewed Publications**

1. *Preparing All Students for the Data-driven World*. Christo Dichev, Darina Dicheva, Lillian Cassel, Don Goelman, **Michael A. Posner**. Accepted for publication in Symposium on Computing at Minority Institutions, 2016.
2. *Smoking, Alcohol Consumption and Binge Drinking Among Young Adult Childhood Cancer Survivors Surveyed in the National Longitudinal Study of Adolescent Health*. Mary Ann Cantrell, **Michael A. Posner**. Accepted for publication at Journal of Adolescent and Young Adult Oncology, 2016.
3. *Four Perspectives on Flipping the Statistics Classroom: Pedagogy to Enhance Student-Centered Learning*. Shonda R. Kuiper, Robert H. Carver, **Michael A. Posner**, Michelle Everson. Problems, Resources, and Issues in Mathematics Undergraduate Studies (PRIMUS), 2015; 25(8), 655-682. doi: 10.1080/10511970.2015.1045573
4. *Exposure Patterns in the Digital Domain: A Demographic Analysis of Media Use and Access in the United States*. Daniel E. Trucil, Leonard Shyles, Emory Woodard IV, David J. Penyak, Heather Hundley, **Michael A. Posner**. Canadian Social Science, 2014; 10(5); 1-14. doi:10.3968/4967
5. *Psychological Distress Between Young Adult Female Survivors of Childhood Cancer and Matched Female Cohorts Surveyed in the Adolescent Health Study*. Mary Ann Cantrell, **Michael A. Posner**. Cancer Nursing, 2014; 37:4; 271-277. doi: 10.1097/NCC.000000000000105.
6. *Using Fun in the Statistics Classroom: An Exploratory Study of College Instructors' Hesitations and Motivations*. Lawrence M. Lesser, Amitra A. Wall, Robert H. Carver, Dennis K. Pearl, Nadia Martin, Shonda Kuiper, **Michael A. Posner**, Patricia Erickson, Shu-Min Liao, Jim Albert, John J. Weber III. Journal of Statistics Education, 2013; 21(1); 1-33. [www.amstat.org/publications/jse/v21n1/lesser.pdf](http://www.amstat.org/publications/jse/v21n1/lesser.pdf). (Cited 2 times according to Google Scholar)
7. *The Impact of a Proficiency-based Assessment and Reassessment of Learning Objectives System on Student Achievement and Attitudes*. **Michael A. Posner**. Statistics Education Research Journal, 2011; 10(1); 3-14. (This research led to a \$2.4mil, 4-year 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." Cited 8 times according to Google Scholar)
8. *Managing the Grading Paradox: Leveraging the Power of Choice in the Classroom*. Shoshana Dobrow, Wendy K. Smith, **Michael A. Posner**. Academy of Management Learning & Education, 2011; 10(2); 261-276. (Cited 5 times according to Google Scholar)
9. *Cigarette Smoking and Alcohol Use Among Adolescents and Young Adults with Asthma*. Elizabeth Dowdell, **Michael A. Posner**, M. Katherine Hutchinson. Nursing Research and Practice, 2011. doi:10.1155/2011/503201. (Cited 4 time according to Google Scholar)
10. *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 4 times according to Google Scholar)
11. *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. Cited 20 times according to Google Scholar)
12. *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 153 times according to Google Scholar)
13. *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 15 times according to Google Scholar)
14. *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 28 times according to Google Scholar)
15. *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 23 times according to Google Scholar)
16. *Mammography Use*. Michele David, Linda Ko, **Michael A. Posner**, Eric Green, Karen M. Freund. Journal of the National Medical Association, 2005;97:2:1-9. (cited 24 times according to Google Scholar)
17. *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 9 times according to Google Scholar)

18. *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 62 times according to Google Scholar)
19. *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 8 times according to Google Scholar)
20. *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.
21. *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 31 times according to Google Scholar)
22. *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 6 times according to Google Scholar)
23. *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 29 times according to Google Scholar. Used in course at Case Western Reserve University. Winner, 2001 Health Policy in Statistics Section Student Paper Competition.)

#### Other Publications

1. *Collaboration to Meet the Statistical Needs in the Chemistry Curriculum.* Marie Davidian and Charles Kutal. *Journal of Chemistry Education*, 2013. doi: 10.1021/ed400516y. Drafted the letter as part of the ASA Statistics Education and Chemistry Work Group.
2. *Response to 'Statistics a la Mode'.* K. Scott Alberts, Nancy Boynton, Brian Gill, Patricia Humphrey, John McKenzie, **Michael A. Posner**, and Andrew Zieffler. *AmStat News*, February 2012.
3. *Letter to the Editor.* K. Scott Alberts, Nancy Boynton, Brian Gill, Patricia Humphrey, John McKenzie, **Michael A. Posner**, and Andrew Zieffler. *Math Horizons*, February 2012.
4. *Module 8: Inference for One Proportion.* **Michael A. Posner** (author). Statistical Pathways ("Statway"), a yearlong college-level statistics course targeted at developmental mathematics students. The Charles A. Dana Center and the University of Texas at Austin. Funded by the Carnegie Foundation for the Advancement of Teaching. Released June 2011 (Carnegie Foundation) and September 2011 (Dana Center).
5. Modified Powerpoint slides accompanying Ken Black's [Business Statistics for Contemporary Decision Making, 7<sup>th</sup> edition.](#) Wiley Publications. 2011.
6. *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.
7. *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 2 times according to Google Scholar)
8. *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.
9. *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.
10. Assisted in publication of [Shaping the College Experience Outside the Classroom](#) (The University of Rochester Press) by James Scannell and Kathleen Simpson (1996).

#### Publications – In Progress

1. *Teachers changing practice: Sustained professional development and its influence on ninth-grade mathematics teachers' instructional and assessment practices.* Kathleen Krier, Nancy Lawrence, **Michael A. Posner**. Submitted to *Teaching and Teacher Education*, 2016.

2. *Coastal dune sustainability: understanding dune morphology, stabilization, and erosion in the face of Superstorm Sandy*. Bianca R. Charbonneau, Louise S. Wootton, John P. Wnek, Jonathan A. Langley, **Michael A. Posner**. Submitted to Ecology, 2015.
3. *Proficiency-based Assessment and Reassessment of Learning Outcome (PARLO): A Three-Year RCT of the Impacts of a Competency-based Grading System on Students and Teachers*. **Michael A. Posner**, Nancy R. Lawrence, Kathleen Krier, Jennifer Roem. To be submitted to American Education Research Journal, 2016.
4. *A Fallacy in Research on Student Attitudes: The Impact of the First Day*. **Michael A. Posner**, Molly R. Passarella. To be submitted to the Journal of Statistics Education, 2016.
5. *The Relationship Between Attitudes and Content Mastery in Statistics Classrooms*. **Michael A. Posner**, Joseph Reiter. To be submitted to the Journal of Statistics Education, 2016.
6. *The Elusive Outcome That We Should Care More About: The Impact of Attitudes and Content on Long-term Retention in Statistics*. **Michael A. Posner**, Meghan Buckley. To be submitted to the Journal of Statistics Education, 2016.
7. *Delving Into Bad Graphics: How Much of an Impact Does it Have on Decision Making?* **Michael A. Posner**, Joseph Reiter. To be submitted to the Journal of Statistics Education or Business Education Journal, 2016.
8. *Instructor Characteristics Associated with Student Appreciation of Statistics*. **Michael A. Posner**, Phil Yates. To be submitted to the Journal of Research in Mathematics Education, 2016.
9. *Weighting within Strata: A New Method of Propensity Score Sample Selection*. **Michael A. Posner**. Submitted to Health Services Outcomes Research and Methodology. Revise and Resubmit.
10. *Demographic Content Diversity in Streaming Videos: Implications for FCC Policy Regulation*. Leonard Shyles, Emory Woodard, Brett Lysak, Heather Hundley, **Michael A. Posner**. Submitted to Information Society, 2010. Revise and Resubmit, 2010. Resubmitted, 2010.
11. *Unplugged*. Kaley Carpenter, **Michael A. Posner**, Meghan Buckley, Molly Passarella. In progress.
12. *Retention in Colleges*. Trudi Tedjeske, **Michael A. Posner**, Molly Passarella. In progress.
13. *PARLO – Instructional Support*. Nancy Lawrence, Kathleen Krier, **Michael A. Posner**. In progress.
14. *PARLO – Quakertown*. **Michael A. Posner**, Nancy Lawrence, Kathleen Krier, Jennifer Ellis. In progress.
15. *PARLO – Involving Parents in the Student Learning Process*. Nancy Lawrence, Kathleen Krier, **Michael A. Posner**. In progress.
16. *Should I Use Gain Scores to Determine Treatment Effect from a Pretest-Posttest Design?: A Simulation Study*. **Michael A. Posner**. In progress.
17. *Sample Size Estimation for Test of Homogeneity with one sample fixed*. **Michael A. Posner**. In progress.
18. *Ratio Estimation for Medicare Fraud Detection*. **Michael A. Posner**. In progress.
19. *Efficient Extrapolation for Overlapping Samples for Fraud Detection*. **Michael A. Posner**. In progress.

#### Grants (Total of \$3.2mil Federal, \$160k other)

##### *Awarded*

1. Training a New Generation of Statistics Educators (TANGO Stat Ed). National Science Foundation Improving Undergraduate STEM Education program. Three year, \$571,091 grant through the IUSE solicitation. Principal Investigator. Create regional hubs to promote statistics education, including establishing mentor relationships and professional development opportunities. My role is Principal Investigator, 2015-2017.
2. Training a New Generation of Statistics Educators (TANGO Stat Ed). This Member Initiative from the American Statistical Association extends the NSF TANGO Stat Ed project to pair community college instructors with statistics education mentors on a national level. Principal Investigator. One year, \$10,000. 2015-2016.
3. Data Computing for All: Developing an Introductory Data Science Course in Flipped Format. National Science Foundation Improving Undergraduate STEM Education program. Three year, \$235,044 planning grant. Co-Principal Investigator, 2014-2017.
4. Engaging Secondary School Students and Teachers Through a Proficiency-based Assessment and Reassessment of Learning Objectives (PARLO) System in Mathematics. National Science Foundation Discovery Grant (DRK-12). \$2.4 million, 4-year grant to examine an assessment paradigm in 9<sup>th</sup> grade algebra and geometry classes through a randomized controlled trial of 44 schools. Based on the Young Women's Leadership Charter School in Chicago and Posner's classroom-based research study. Statistician and Co-Principal Investigator. 2010-2015.
5. Founding Director, Center for Statistics Education. Awarded grant to create a Center of Excellence in College of Liberal Arts and Sciences at Villanova University. This three year, \$50,000 grant supported creating professional development opportunities, promoting statistics education research, and examining

- interdisciplinary opportunities in teaching statistics across the college. 2013-2016. The Center has been offered continuing support through the Dean's office and through self-sustaining endeavors since then.
6. Villanova Institute for Teaching and Learning Faculty Associate grant. This grant buys a tenured faculty member out of one course in exchange for teaching-related service or research. \$5,125. My project will support classroom-based research and promote the scholarship of teaching and learning among the faculty. Fall 2013.
  7. Consultant, statistics curriculum. Education Consortium for the Advancement of STEM in Egypt (ECASE). \$25 million grant funded through World Learning, The Franklin Institute, the 21<sup>st</sup> Century Partnership for STEM Education, and the Teaching Institute for Excellence in STEM (TIES). This project serves to advise the Egyptian Ministry of Education to establish and evaluate a STEM curriculum in five STEM model schools. 2012-2016.
  8. Villanova Institute for Teaching and Learning Minigrant entitled "DEVELOping an Inverted Classroom Experience in Statistics (DEVICES)". PI: Michael A. Posner. \$5260. 2012-2013.
  9. 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, 2006-2008.
  10. "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. \$3000. My role is statistician. 2008.
  11. Examining the Visual Impairment of Women through the Center for Nursing Research at Villanova University College of Nursing. PI: Nancy Sharts-Hopko. \$1500. My role is statistician. 2009.

*Under Review/In Progress*

1. Core PARLO. Three year, \$1.5mil grant to explore deeper implementation of PARLO in five high schools. My role is consultant.
2. Statistics Summer Experience for Non-Statistician Educators (StatSENSE). Considering submitting for 2017.
3. IES or PDE grant for professional development in statistics. Considering submitting for 2016.

*Not Awarded*

1. Distress Screening and Service Recommendations for Psychosocial Oncology. A Phase I SBIR Grant to the National Institutes of Health. Serving as statistical consultant. Submitted Dec 2013 – not awarded. Resubmitted Aug 2014. \$225,000.
2. PARLO Middle Grades. Submitted to Institute for Education Sciences of the US Department of Education, Sept 2013. Three year, \$1.5mil grant to move PARLO into middle grades. Role is Co-PI.
3. NOVEL PRISM (New Opportunities at Villanova for Evidence-based Learning to Promote Interest in STEM for non-Majors). Submitted to NSF, July 2013 and February 2014. Two-year, \$250,000 planning grant through the WIDER (2013) and IUSE (2014) solicitations.
4. "CAUSE-and-EFFECTS: Consortium for the Advancement of Undergraduate Statistics Education's Evaluation Foundation For Effective Communities of Teachers of Statistics," is a five-year, \$5 million grant to provide the infrastructure to implement, disseminate, evaluate, and sustain innovations in statistics education. Villanova is a collaborator (I am serving as PI) along with Ohio State University, University of Minnesota, the American Statistical Association, and the Inter-university Consortium for Political and Social Research. The Mathematics Association of America and the American Mathematical Association for Two Year Colleges are also participants. Submitted in 2011 and again in 2012.
5. V-SCIENCE - Villanova Sciences Committed to Interdisciplinary Endeavors and Civic Engagement. Howard Hughes Medical Institute. \$1,531,943. My role is evaluator. Submitted 2012.
6. National League for Nursing's 2008 Education Grants Program grant with Dr. Marilyn Fetter. \$12,800.

*Evaluator/Advisory Board/Reviewer*

1. NSF DUE grant entitled "Playing Games with a Purpose: A New Approach to Teaching and Learning Statistics." PI: Shonda Kuiper, Grinnell College. This three year, \$199,975 grant to the Division of Undergraduate Education examines the roles of statistical games in student learning. I am an advisor/evaluator on this grant.
2. Evaluator, "Semester Conversion: Too Many Students, Too Little Time." Statistics evaluator for Ohio State University's Learning Technology Departmental Impact Grant. One year, \$37,892 grant to examine successful pedagogical strategies in larger introductory statistics class at The Ohio State University, 2011-12.
3. NSF REESE grant entitled "Gender-Ethnic Identification and the Development of STEM Achievement Behaviors." PI: Nicole Else-Quest of the Villanova University Department of Psychology. This is a longitudinal study of the development of gender differences in STEM attitudes and achievement across four major ethnic groups of students in Philadelphia public schools. Total grant award is \$284,402.

## Presentations

1. *Relationship Between Attitudes and Long-term Retention*. Joint Statistical Meetings, 2016.
2. *Making Valid Inferences in Observational Studies using Propensity Scores*. Data Insights Cambridge, 2016. Plymouth University (UK), 2016.
3. *Results from PARLO: An NSF-Funded RCT of a Proficiency-based Assessment Paradigm in the Greater Philadelphia Area*. Faculty of Education Invited Talk, University of Cambridge, 2016. REL-NEI Proficiency-and Competency-based Learning Researcher Meeting, 2016.
4. *Statistician! The Hottest Career of the 21st Century*. Plymouth University (UK), 2016.
5. *Data Science for All: An Introductory Course for Non-Majors, in Flipped Format*. SIGCSE, 2016.
6. *Brainstorming Data Science as a Fluency Course for Non-Majors and as a New Specialization*. SIGCSE Birds of a Feather session, 2016.
7. *Statistics Education Research: It Takes a Village*. Plenary talk at US Conference on Teaching Statistics, 2015.
8. *Welcome to the Village: Developing a Personal Stat Ed Research Agenda*. US Conference on Teaching Statistics, 2015.
9. *A Flipped Classroom approach to Introductory Data Science*. US Conference on Teaching Statistics, 2015.
10. *Are Pie Charts Really So Bad? An Experiment in Data Visualization*. Joint Statistical Meetings, 2015.
11. *Statistics Education in the Era of Big Data and Data Science*. Philadelphia Area Statistics Teachers Alliance, 2015.
12. *Academic Speed-Dating: Walk Away With Eight Immediately Applicable Ways to Invigorate Your Teaching*. VITAL Teaching and Learning Strategies, 2015.
13. *A Practical Example of Expected Value*. Philadelphia Area Statistics Teachers Alliance, 2015.
14. *Barriers, Successes, and the Future of PARLO*. PARLO Summer Conference, 2014.
15. *A Fallacy in Student Attitude Research: The Impact of the First Class*. International Conference on Teaching Statistics, 2014 and Joint Statistical Meetings, 2012
16. *Igniting Evidence-based Instructional Change...One Classroom-based Evaluation at a Time*. VITAL Workshop, 2013 and VITAL Teaching and Learning Strategies, 2014.
17. *Flipped Class: The Challenges and Benefits of Changing the Classroom Dynamic to be Consistent with Cognitive Learning Theories and Focus on Student-Centered Learning*. Joint Mathematics Meetings, 2014.
18. *Educational Research and Evidence-based Education...One Path in a Maze of Opportunity*. Invited presentation for Education 220: Changing Pedagogies in Math and Science Education at Bryn Mawr College, 2011 and 2013.
19. *Mathematical Connections at Malvern Preparatory School*. Invited speaker about the role of a statistician in the field of mathematics, 2013.
20. *Flipping the Classroom: Changing the Classroom Model to Enhance Student-centered Learning and Optimize Use of Time*. US Conference on Teaching Statistics, 2013.
21. *DEveloping an Inverted Classroom Experience in Statistics (DEVICES)*. Villanova Institute for Teaching and Learning's Teaching and Learning Strategies, 2013.
22. *Using Fun in the Statistics Classroom: An Exploratory Study of Hesitations and Motivations of USCOTS 2011 Attendees*. US Conference on Teaching Statistics, Poster & Beyond Session, 2013.
23. *To Flip or Not To Flip? Lessons from the Trenches*. Villanova University Technology Expo, 2013.
24. *Statistics Education in the Modern Era*. Colloquium presentation for Division of Biostatistics, Thomas Jefferson University, 2013.
25. *Using Hybrid Assessments: Promoting Learning Without Drowning in Grading*. Temple University Faculty Conference on Teaching Excellence, 2013.
26. *Assessment Reassessed: On The Road to Persistence and Proficiency in Mathematics*. STEMathon, 2013. Presented by co-investigators.
27. *Engaging Students Through a Proficiency-based Assessment and Reassessment of Learning Outcomes (PARLO) System*. Joint Mathematics Meetings, 2013.
28. *Did My New Teaching Strategy Work? Ideas for Doing Classroom-based Research*. Invited presenter/facilitator, Villanova Institute for Teaching and Learning "Food for Thought" series. December, 2012.
29. *Practicing What We Preach: Evidence-based Evaluation of your Pedagogical Innovations*. Alder Award Winners Presentations. Mathfest, 2012.
30. *An Innovative Assessment Paradigm: From Classroom to NSF-Funded Research Study*. National Conference of Teachers of Mathematics Regional Conference, 2011.
31. *FREE CLICKERS!: Using PollEverywhere for Formative Assessment in the Classroom*. Joint Mathematics Meetings, 2011. CAUSE Webinar, 2011. Villanova University's Teaching and Learning Strategies, 2011.

32. *Weighting Within Strata: A New Propensity Weight*. American Education Research Association, 2011, as part of symposium on *Propensity Score Analysis: Current Issues and New Developments*. Joint Statistical Meetings, 2009. International Conference on Health Policy Statistics, 2008.
33. *Engaging Secondary Students and Teachers in Proficiency-based Assessment and Reassessment of Learning Outcomes (PARLO)*. American Educational Research Association, 2011. Collaborative Mathematics Education Research Group, 2011. National Science Foundation Discovery Research K-12 Meeting, 2010. Co-presented with Nancy Lawrence. Psychology of Mathematics Education – North America Conference. 2010 (presented by Kathleen Krier)
34. *Should I Use Gain Scores to Determine Treatment Effect from a Pretest-Posttest Design?: A Simulation Study*. Joint Statistical Meetings 2010.
35. *Instructor Characteristics Associated with Student Appreciation of Statistics*. Presented by Phil Yates. Joint Statistical Meetings 2010.
24. *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.
36. *Using Online Homework Assessments*. Roundtable at Joint Statistical Meetings, 2010.
37. *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.
38. *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. Awarded Management Education and Development Division Best Paper in Graduate Management Education. Presented at Lilly East Conference on College and University Teaching, 2010 (co-presented by Michael A. Posner and Wendy K. Smith).
39. *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".
40. *Demographic Diversity: Exposure Patterns in the Digital Domain*. National Communication Association's 96<sup>th</sup> Annual Convention, 2010. Presented by Daniel Trucil.
41. *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.
42. *Towards an Understanding of Prerequisite Knowledge of Sampling Distributions*. With Dale Berger, Michelle Sisto, and Tisha Hooks. US Conference on Teaching Statistics, 2009.
43. *The Magic of Statistics...Revealed*. Philadelphia Area Statistics Teachers' Alliance, May 2009. 2007 United Stated Conference on Teaching Statistics.
44. *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.
45. *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).
46. *Digital Diversity: Age, Race/Ethnicity, and Gender of Streaming Video Performers*. National Communication Association's 95<sup>th</sup> Annual Convention, 2009. Presented by Len Shyles.
47. *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).
48. *Evaluating Pedagogical Techniques: Proficiency Grading and Assignment Resubmission*. 2007 International Association of Statistics Education Conference on Assessment.
49. *When Standard Regression Fails: The Role of Propensity Scores*. 2007 Joint Statistical Meetings.
50. Research in progress talk. 2007 Math Science Partnership of Greater Philadelphia Research and Evaluation Team.
51. *Secondary Data Analysis*. Villanova University College of Nursing, 2007.
52. *Experiences from Formative Assessment Seminar*. 2007 Math Science Partnership Learning Network Conference. Co-presented with Victor Donnay.
53. *Formative Assessment*. Villanova University's Institute for Teaching and Learning's "Teaching and Learning Strategies 2006", May 18, 2006.

54. *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) ACMMSCO Combined Annual Meeting.
55. *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).
56. *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.
57. *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.
58. *Acculturation in Haitians*. Eric Green, Michael A. Posner, Karen Freund, Michele David. Society of General Internal Medicine, 2003.
59. *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.
60. Using Medicare and Medicaid Data for Health Services Research. International Conference on Health Policy Research, 2001.
61. HCFA/CMS 103 course – Introduction to Medicare Cost and Payment Data. Six times, 1999-2001.
62. Using SAS Macros. Data Coordinating Center, Boston University School of Public Health, 2000.
63. *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.
64. *Predicting Recurring Disease Among Patients Presenting at an Inner-city STD Clinic*. Howland J, Minsky S, Martins P, Posner M, Klein E, Rice PA, Lambl BL, DeJong W. International Society of STD Research, 1999.
65. S+ for statisticians and SAS for non-statisticians. New England Research Institutes, 1997-1998.

## Awards and Honors

- American Statistical Association's 2012 Waller Education Award. National award given to one early-career college-level educator for outstanding contributions to and innovation in the teaching of elementary statistics.
- Mathematical Association of America's 2012 Henry L. Alder Award for Distinguished Teaching by a Beginning College or University Mathematics Faculty Member. National award given to a beginning (up to 7 years) faculty whose teaching has been extraordinarily successful and whose effectiveness in teaching undergraduate mathematics is shown to have influence beyond their own classrooms.
- 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.
- A-mu-sing content winner. Best Video and Best Overall Entry for "Stats Can Be Cool You See" (<http://www.youtube.com/watch?v=4rKQtDb4VjU>). Consortium for the Advancement of Undergraduate Statistics Education, 2013.
- Best paper award, Management Education and Development Division Best Paper in Graduate Management Education, "*Managing the grading paradox: Leveraging the power of choice in the classroom*". Printed in the Best Paper Proceedings for the 2010 Academy of Management Meeting.
- 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 NEXt Fellow, Mathematical Association of America, 2006-2007.
- 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”. 2010.
- Honorable mention, 2002 Boston University Biostatistics Department Student Paper Award Competition.
- 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

- Associate Editor, Journal of Statistics Education. 2012-present.
- Associate Director for Professional Development, Consortium for the Advancement of Undergraduate Statistics Education, 2010-2016.
- Co-chair, MAA/ASA Joint Committee on Statistics Education, 2015-2016. Also served as member from 2009-2016 (three terms). Appointed by President of Mathematics Association of America. Chair, subcommittee on PREP workshop, 2012.
- Executive Committee Member-at-Large, Section on Statistical Education of the American Statistical Association, 2010-2012 and 2015-2017.
- Educational Outreach Officer, American Statistical Association, Philadelphia Chapter. 2012-16.
- Member, Mathematics Advisory Group (MAG) for Transforming Post-Secondary Education (TPSE) in Mathematics, 2016.
- Member, Working Group on Statistics Education Research Objectives. 2015-16. Appointed by President-elect of American Statistical Association.
- Member, Judea Pearl Causal Inference in Statistics Education Prize Committee, 2012-2016. Appointed by President-elect of American Statistical Association.
- Collaborative Mathematics Education Research Group (CoMERG), 2010 – Present. Brings together Mathematics Education researchers in the Philadelphia region.
- Creator and Moderator, LinkedIn Professional Networking Group for American Statistical Association’s Accredited Professional Statisticians (PStat), 2011 – present.
- Member, American Statistical Association Statistics Education and Chemistry Work Group, 2013.
- Member, Planning Committee, U.S. Conference on Teaching Statistics (USCOTS), 2013, and Electronic Conference on Teaching Statistics (eCOTS), 2012 and 2014. Moderated three sessions at eCOTS 2012.
- Member, Committee to Revise the GAISE (Guidelines for Assessment and Instruction in Statistics Education) College Report, 2012-2013.
- Project NEXt Consultant, 2012-2013 and 2013-2014.
- Co-taught mini-course on Teaching Introductory Statistics, Joint Mathematics Meetings – 2011, 2013 and 2014.
- Reviewer, NSF grant proposals, 2011 and 2014.
- Chair and Creator, Award Creation Committee, Robert V. Hogg Award for Excellence in Teaching Introductory Statistics, SIGMAA on Statistics Education, 2011-2012.
- Chair-Elect (2008), Chair (2009), and Past-Chair (2010) of Special Interest Group of the Mathematical Association of America for Statistics Education.
- Member, ASA Public Awareness Workgroup to increase public awareness about the profession of statistics, 2011. Appointed by President of American Statistical Association.
- 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.
- Presented CAUSE workshop on Teaching Introductory Statistics, Joint Mathematics Meetings 2010.
- 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.
- Member, Math Science Partnership of Greater Philadelphia's Research and Evaluation Team, 2006 – 2008.
- Member, Program Committee, Boston Chapter of the American Statistical Association, 1997-2005. Served three terms as Treasurer, 2000-2005.
- Refereed 15+ articles for *Medical Care*, *Health Services Outcomes Research and Methodology*, *The American Statistician*, *Journal of Statistics Education*, and *Statistics Education Research Journal*.
- Chaired, moderated, and organized over 30 sessions, panels, or roundtables at the Joint Statistical Meetings, Joint Mathematics Meetings, MathFest, and American Educational Research Association Meetings.

## University Service

- Founding Director, Center for Statistics Education. A Center for Excellence in the College of Liberal Arts and Sciences, 2013 – present.
- Member, Graduate Applied Statistics Committee, 2005 – present.
- Member, BS-MS 5-year program in Applied Statistics Committee, 2005 – present.
- Course Coordinator, Business Statistics (MAT1430), 2011 – present.
- Faculty Associate, Villanova University School of Business Center for Business Analytics, 2010 – present.
- Faculty Associate, Villanova University College of Engineering Center for Data Analytics of Dynamic Systems, 2015 – present.
- Member, College of Liberal Arts and Sciences, College Assessment Committee, 2013 – present.
- Creator and Moderator, LinkedIn Professional Networking Group for Villanova University Applied Statistics Graduate Program Alumni, 2009 – present.
- Member, Department of Mathematics and Statistics Social Networking Committee, 2013 – present.
- Course Coordinator, Business Statistics (MAT1430), 2011 – present.
- Member, Faculty Congress Task Force on Carnegie Reclassification, 2014-2015.
- Member, ad hoc Faculty Congress Committee on Surveying Faculty, 2014-2015.
- Statistics Education Consultant (volunteer), interdisciplinary "Joining Forces" project with the College of Nursing and the Center for Nursing Science and Clinical Inquiry at Landstuhl Regional Medical Center (LRMC) in Germany. LRMC is the largest American military hospital outside the USA. Servicing 218,000 active duty military and their dependents throughout Europe, North Africa and the Middle East, LRMC houses the "Combat Casualty Program and treats ill and wounded troops from such "down range" locations as Afghanistan. 2013 – 2015.
- VITAL Faculty Associate. 2014. Taught workshop and offered consulting services to faculty on conducting classroom-based research.
- Member, Department of Mathematics and Statistics Hiring Committee, 2011-2012, 2012-2013, and 2013-2014.
- Member, College of Liberal Arts and Sciences Task Force for the online Bachelors of Arts degree, 2013.
- Member, Villanova International Leadership Team, 2012-2013. University-wide committee to strengthen global leadership and engagement. Appointed by Vice President for Academic Affairs.
- Member, College of Liberal Arts and Sciences Strategic Futures Committee, 2012-3.
- Member, College of Liberal Arts and Sciences Task Force for E-Learning, 2013.
- Member, College of Liberal Arts and Sciences, Search Committee for Director of Assessment, 2013.
- Assisted in creating a track on the Flipped Classroom for the Villanova University Technology Expo, 2013. Presented at Tech Expo on the Flipped Classroom.
- Member, Villanova School of Business Master of Science in Analytics Committee. 2010 – 2013. Group created the Master of Science in Analytics program.
- Member, Villanova School of Business Undergraduate Curriculum Taskforce Subcommittee on Statistics, 2010. Worked with colleagues in VSB to create new 4-credit statistics course required of all business students.
- *Did My New Teaching Strategy Work? Ideas for Doing Classroom-based Research*. Invited presenter/facilitator, Villanova Institute for Teaching and Learning "Food for Thought" series. Nov 2012.
- *The Flipped Classroom*. Invited presenter/facilitator, Villanova Institute for Teaching and Learning "Food for Thought" series. Mar 2013.

- “Diversity of Faith Traditions” invited presenter. Villanova University’s Office of Mission and Ministry, Nov 2012.
- 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 Levingston, 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,” 7 times from 2006-present.
- 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.
- Member, Philadelphia Area Statistics Teachers Alliance (PASTA), 2008-present.
- Member, *Mathematical Association of America*, 2005-present.
- Member, *The International Association of Statistical Education*, 2007-present.
- Member, *The American Educational Research Association*, 2008-present. Organized symposium for AERA Meeting, 2011.
- 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.

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