John P. Holcomb, Jr.

Professor
Vice Provost of Academic Programs
Dean, College of Graduate Studies

Cleveland State University
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Cleveland, OH 44115-2214

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EDUCATION

Ph.D. - Mathematical Statistics - The State University of New York at Albany (1995)
M.A. - Mathematics - The State University of New York at Albany (1991)
B.S. - Mathematics - St. Bonaventure University (1989)

PROFESSIONAL POSITIONS

Spring 2020 – Present, Interim Dean and Dean, College of Graduate Studies, Cleveland State University
Summer 2019 – Present, Interim Vice Provost and Vice Provost of Academic Programs, Cleveland State University
Summer 2017 – Summer 2019, Associate Dean of Curriculum and Operations, College of Sciences and Health Professions, Cleveland State University
Summer 2010 – 2017, Chair, Department of Mathematics, Cleveland State University
Fall 2000 – Present, Assistant/Associate/Full Professor, Cleveland State University
Fall 1995 - Spring 2000, Assistant/Associate Professor, Youngstown State University
Fall 1989 - Summer 1995, Teaching Assistant, The State University of NY at Albany

PUBLICATIONS

Peer - Reviewed or Invited Articles

[1] Boyd, J., Delost, M., and Holcomb, J., (1998). Calcium, phosphorus, and alkaline phosphatase laboratory values of elderly subjects, *Clinical Laboratory Science*, 11, 223-227.

[2] Faires, J. D., Holcomb, J., and Ritchey, N., (1999). Identification and development of mathematically promising students via honors calculus and the university scholars program. In *Developing Mathematically Talented Students*, Linda Sheffield editor. National Council of Teachers of Mathematics, Reston, VA.

[3] Holcomb, J., (1999). Characterization theorems when variables are measured with error, *Journal of Multivariate Analysis*, 68, 283-298.

[4] Holcomb, J. (1999). Regression with covariates and outcome calculated from a comment set of variables in the presence of measurement error: estimation using the SIMEX method, *Statistics in Medicine*, 21, 2847-2862.

[5] Holben, D. and Holcomb J. (2000). Seasoned lean ground beef and turkey are preferred over seasoned ground emu by consumers, *Journal of Family and Consumer Sciences*, 28, 401-408.

[6] Holcomb, J. and Ruffer, R. (2000). Using a term-long project sequence in introductory statistics, *The American Statistician*, 54, 49-53.

[7] Tarpey, T. and Holcomb J. (2000). Spline bottles, *The American Statistician*, 54, 129-135.

[8] Boyd, J., Rothenberg, R., and Holcomb J., (2000), The effects of bone density testing at health fairs on awareness and treatment of osteoporosis, *Arthritis Care and Research*, 13(5), 330-332.
[9] Rothenberg, R., and Holcomb J. (2000). Guidelines for monitoring of NSAIDS, who listened? *Journal of Clinical Rheumatology*, 6(5), 258-265.
[10] McNutt, L., Holcomb, J., and Carlson, B. (2000). Logistic Regression Analysis: When the odds ratio doesn't work - An example using intimate partner violence data, *Journal of Interpersonal Violence*, 15(10), 1050-1059.
[11] Ruffer, R., and Holcomb, J. (2001). To build or buy: an empirical study of the characteristics affecting a firm's expansion decision, *Journal of Economics and Business*, 53(5), 481-495.
[12] Flexer, C., Biley, K., Hinkley, A., Harkema, C., and Holcomb, J. (2002). Using sound-field to teach phonemic awareness to pre-schoolers, *The Hearing Journal*, 55(3), 38-44.
[13] Holcomb, J., (2002). The ethics of comparison: a statistician wrestles with the orthodoxy of a control group, in Ethical Issues in the Scholarship of Teaching and Learning, Pat Hutchings, editor, Carnegie Foundation for the Advancement of Teaching.
[14] Holben D., Smith, A., Ilich, J., Landoll, J., Holcomb, J. and Matkovik, V., (2002). Puberty does not negatively affect selenium status in young females**,** *Journal of the American Dietetic Association,* 102:1082-1087.
[15] Boyd, J., Holcomb, J., and Rothenberg R., (2002). Physician treatment of osteoporosis in response to heel ultrasound bone mineral density reports, *Journal of Clinical Densitometry,* 5(4), 375-381.
[16] Holben, D. H., McClincy, M. C. , Holcomb J. P., Dean K. L., and Walker, C., (2004). Food security status of households in Appalachian Ohio with children in Head Start, *Journal of the American Dietetic Association,* 104:238-241.
[17] Rothenberg, R, Boyd J., and Holcomb J., (2004). Quantitative ultrasound of the calcaneus as a screening tool to detect osteoporosis, *Journal of Clinical Densitometry,* 7:101-110.
[18] Shih, S. Holben, D., and Holcomb, J, (2004). Self-Identified Knowledge And Practices Of Family Physicians In Appalachian Ohio Regarding Food Acquisition Of Patients, *Journal of the American Dietetic Association,* 104:1718-1721.
[19] Holcomb, J. and Spalsbury, A. (2005). Teaching Students to Use Summary Statistics and Graphics to Clean and Analyze Data, *Journal of Statistics Education* [Online], 13(3).
[20] Daly, J., Roenigk, K., Holcomb, J., Rogers, J., Butler, K., Gansen, J., McCabe, J., and Ruff, R., (2006). A randomized controlled trial of FNS in chronic stroke subjects, *Stroke*, 37, 172-178.
[21] Holben, D., Barnett, M, and Holcomb, J., (2006). Food insecurity is associated with health status of older adults participating in the Commodity Supplemental Food Program, *Journal of Hunger and Environmental Nutrition*, 1(2), 89-99.
[22] Kropf, M, Holben, D., Holcomb, J., and Anderson, H., (2007). Food security status and produce intake and behaviors of Special Supplemental Nutrition Program for Women, Infants, and Children and Farmers' Market Nutrition Program participants. *Journal of the American Dietetic Association,* 107(11), p. 1903-1908.

[23] Holcomb, J., and Radke-Sharpe, N., (2007) Forecasting Police Calls during Peak Times for the City of Cleveland, *Case Studies in Business, Industry, and Government Statistics*, 1(1), p. 47 - 53.
[24] Walker J., Holben, D., Kropf, M., Holcomb, J., and Anderson H., (2007). Food insecurity is inversely associated with poor social capital and health in females from Special Supplemental Nutrition program for Women, Infants and Children households in Appalachian Ohio, *Journal of the American Dietetic Association,* 107(11), p. 1989-1993.
[25] O'Connell, K., Holben, D., and Holcomb, J., (2007). Use of food pantries is associated with household food insecurity in Ohio. *Journal of Hunger and Environmental Nutrition*, 2(2/3), p. 93-109.
[26] Daly, J., J., Nethery, J., McCabe, J.P., Brenner, I., Rogers, J., Gansen J., Butler, K., Roenigk, K., Burdsall, and Holcomb, J. (2009). Development and Testing of the Gait Assessment and Intervention Tool (G.A.I.T.): A Measure of Coordinated Gait Components, (2009). *Journal of Neuroscience Methods*, 178(2), 334-339.
[27] Bletzacker, K, Holben, D., and Holcomb J. (2009). Poverty and proximity to food assistance programs are inversely related to community food security in an Appalachian Ohio region, *Journal of Hunger and Environmental Nutrition* 4(2), 172-184.
[28] Garfield, J., Zieffler, A., Kaplan, D., Cobb, G., Chance, B., and Holcomb, J. (2011). Rethinking Assessment of Student Learning in Statistics Courses, *The American Statistician* 65(1), 1-10.
[29] Daly, J., Holcomb, J. et al. (2011). Recovery of Coordinated Gait: Randomized Controlled Stroke Trial of Functional Electrical Stimulation vs No-FES, With Weight-Supported Treadmill and Over-ground Training, *Neurorehabilitation and Neural Repair*, 25(7), 588-596.
[30] Zimbelman, J., Daly, J, Roenigk, Butler, K., Birdsall, R., and Holcomb, J., (2012). Capability of Two Gait Measures for Detecting Response to Gait Training in Stroke Survivors: Gait Assessment and Intervention Tool and the Tinetti Gait Scale, *Archives of Physical Medicine and Rehabilitation*, 93(1), p. 129-136.
[31] Pundik, S., Holcomb, J., Daly, J., (2012). Enhanced Life-Role Participation In Response to Comprehensive Gait Training In Chronic Stroke Survivors, *Disability and Rehabilitation*, 34(26), 2264-2271.
[32] Ray, E., Holben, D., Holcomb, J. (2012). Food security status and produce intake behaviors, health status, and diabetes risk among women with children living on a Navajo reservation, *Journal of Hunger and Environmental Nutrition,* 7, 91-100.
[33] Daly, J., Hrovat, K., Holcomb, J., Pundik, S., (2014). Brain control of functional reach in healthy adults and stroke survivors, *Restorative Neurology and Neuroscience*, 32(5), 559-573.
[34] McCabe, J., Monkiewicz, M., Holcomb, J., Pundik, S., and Daly, J. (2015). Comparison of Robotics, FES, and Motor Learning Methods for Treatment of Persistent Upper Extremity Dysfunction after Stroke: a Randomized Controlled Trial, *Archives of Physical Medicine and Rehabilitation*, 96(6), 981-990.
[35] Holcomb, J. (2015). Presenting Evidence in the Field that Invented the Randomized Clinical Trial, in Doing the Scholarship of Teaching and Learning, Jacqueline Dewar and Curtis Bennett editors, Mathematics Association of America, Notes # 83, Washington DC.
[36] Holcomb, J. (2015). Consider a Career in Statistics, *Chance,* 28(4), 30-33.

[37] Holcomb, J., Quinn, L., Short, T. (2015). Seeking the Niche for Traditional Mathematics within Undergraduate Statistics and Data Science Curricula, *The American Statistician Online Discussion: Special Issue on Statistics and the Undergraduate Curriculum.*

[38] Bénéteau, C., Fox, G., Xu, X., Lewis, J., Ramachandran, K., Campbell, S., Holcomb, J. (2016). Peer-Led Guided Inquiry in Calculus at the University of South Florida, *Journal of STEM Education*, 17(2), 5-13.

[39] Carver, S., Van Sickle, J., Holcomb, J., Quinn, C., Jackson D., Resnick A., Duffy, S., Sridhar, N., Marquard, M., (2017). Operation STEM: increasing success and improving retention among first-generation and underrepresented minority students in STEM, *Journal of STEM Education*, 18(3).

[40] Fox, G., Campbell S., Grinshpan, A., Xu, X., Holcomb, J., Bénéteau, C., Lewis, J., Ramachandran, K., (2017). Implementing Projects in Calculus on a Large Scale at the University of South Florida, *Journal of STEM Education*, 18(3), 30-38.

[41] Vincent, V., Bowen, W., and Holcomb, J., (2018). Vehicle Fuel Economy and Vehicle Miles Traveled: An Empirical Investigation of Jevon's Paradox, *Energy Research and Social Science*, 38, 19-27..

[42] Quinn, C., Carver, S., Holcomb Jr. et. al. (2019). Music as Math Waves: Exploring Trigonometry through Sound, *Journal of Mathematics and the Arts*,13:1-2, 173-184.

[43] Daly, J., McCabe, J. Holcomb, J., Monkiewicz, M., Brenner, I., Rogers, J., Gansen, J., and Pundik, S., (2019). Long-Dose Intensive Therapy is Necessary for Strong, Clinically Significant, Upper Limb Functional Gains and Retained Gains in Severe/Moderate Chronic Stroke, *Neurorehabilitation and Neural Repair*, 33(7), 523-537.

[44] Van Sickle, J., Schuler, K., Holcomb, J. P., Carver. S., Resnick, A., Quinn, C., Jackson, D., Duffy, S., Sridhar, N. (2020). Closing the Achievement Gap for Underrepresented Minority Students in STEM. *Journal of STEM Education: Innovations and Research*: 21 (2), 5-18.

[45] Sandha P, Holcomb J. P, Holben D. H. (2021) Household food security and gardening of mothers with young children living on Prince Edward Island. *Journal of Hunger and Environmental Nutrition.* In press. Accepted on January 5, 2021.

Textbook Writing

Reviser for 8th edition, Biostatistics: A Foundation for Analysis in the Health Sciences, by Wayne Daniel. Rewrote and updated hundreds of examples and exercises using actual medical data from researchers around the world, John Wiley and Sons, Fall 2004.

Co-author for 9th, 10th, 11th, and 12th editions, Mathematics with Applications and Finite Mathematics with Marge Lial, Thomas Hungerford, and Bernadette Mullins. Rewrote/updated chapters dealing with probability, statistics, finite mathematics, and calculus for this widely-adopted text for business, sociology, and life science majors, Pearson, Spring 2006 and Spring 2010 Spring 2014, and Spring 2018.

FUNDED GRANT ACTIVITY

Role	Funding Agency	Project Title	Co-Investigators	Duration	Grant Award
Campus Lead	Ohio Department of Education	Strong Start to Finish II		2019-2021	$19,000

Campus Lead	Ohio Department of Education	Short Terms Certificates	Ronnie Dunn, Peter Meiksins	2018-2020	$110,000
Principal Investigator	Association of Public Land-grant Universities (APLU)	Adaptive Learning	Peter Meiksins	2018-2021	22,913
Local Principal Investigator	NSF-HRD	The Ohio LSAMP Alliance	Bruce McPheron (PI) James Moore III (Co-PI) Dorinda Gallant (Co-PI)	2018-2023	$4,500,000 (approx. $225,000 @ CSU)
Principal Investigator	NSF-DUE-STEP Program	Mathematics Achievement as a Step for STEM Success (Renamed Operation STEM)	Duffy, S., Jackson, D., and Resnick, A.	2012-2018	$925,159
Local Principal Investigator	NSF-HRD	The Ohio LSAMP Alliance	Fink, B. (PI)	2013-2018	$1,399,782 (approx. $300,000 @ CSU)
Co-Principal Investigator	NSF-DUE Robert Noyce Scholarship Program	MUST STEM Fellows	Goodell, J., (PI), Sridhar, N., Jackson, D., Corrigan, D.	2011-2016	$1,199,998
Principal Investigator	Cleveland State University	Mathematics Emporium	John Walsh	2013	$741,668
External Evaluator	National Science Foundation DUE -CCLI	A STEP to grow in science-engineering-mathematics undergraduate degrees	Ramachandran, Grinshpan, Bénéteau, Campbell, Fox, and Lewis, University of South Florida	2008-2013	$1,573,237
Consultant	National Science Foundation DUE-CCLI	Change Agents for Teaching and Learning Statistics (CATALST)	Garfield, delMas, Zieffler, UMN	2008-2011	$318,290
Statistical Consultant	Veteran's Administration Rehabilitation, Research, and Development Service	CNS plasticity induced by motor learning technologies	Daly, J.,Cleveland VA Hospital	2005-2011	$3,174,000
External Evaluator	National Science Foundation DUE -CCLI	Concepts of Statistical Inference: A Randomization-Based Curriculum	Rossman, A., and Chance, B., Cal Poly San Luis Obispo	2007-2008	$149,842
Statistical Consultant	Ohio University	Food Security among WIC and Farmer's Market Users in Appalachian Women	Holben, D., Ohio University	2006	$5,622

PRESENTATIONS
National Convention Addresses

"Using Actual Data sets in Elementary Statistics," Joint Mathematics Meetings, Seattle, WA, August 1996.

"Characterization Theorems when Variables are Measured with Error," Joint Statistical Meetings, Chicago, IL, August 1996

"Simulation - Extrapolation Estimation for Calculated Variables," Joint Statistical Meetings, Anaheim, CA, August 1997.

"Using a Term-long Project Sequence to Teach Introductory Data Analysis," Joint Statistical Meetings, Dallas, TX, August 1998.

"Using Real Data for Authentic Assessment," Joint Statistical Meetings, New York, NY, August 2002.

"Rethinking Assessment in Statistics Education: Realigning Goals and Practices," Discussant, Joint Statistical Meetings, San Francisco, CA, August 2003.

"Teaching Students to Use Summary Statistics and Graphics to Clean and Analyze Data," Joint Statistical Meetings, Toronto, CA, August 2004.

"Turning Your Class into a Research Lab", United States Conference on Teaching Statistics (USCOTS), Columbus, OH, May 2005.

"Career Advice in Statistics Education: A panel discussion including Waller Education Award Winners", Invited Session, Joint Statistical Meetings, Minneapolis, MN, August 2005.

"Spanning the Parametric/Nonparametric Divide", Invited Session, Joint Statistical Meetings, Seattle, WA, August 2006.

"Issues in Conducting Experiments in Statistical Education," Invited Session, Joint Statistical Meetings, Salt Lake City, UT, July 2007.

"Innovative Ideas in Assessment," Discussant, Invited Session, Joint Statistical Meetings, Denver, CO, August 2008.

"What's Right with Undergraduate Statistics," Speaker, Closing Plenary, United States Conference on Teaching Statistics, Penn State University, June 2015.

Invited and Keynote Addresses at International and National Theme Based Conferences

"Assessing Student Learning from Collaborative and Written Project Reports," First Annual Joint UK and USA Conference on the Scholarship of Teaching and Learning, co-sponsored by the University of East London, and City University of London, London, England, June 2001.

"Defining the Problem," Carnegie Conference on the Scholarship of Teaching and Learning, Youngstown State University, February 2001.

"Assessing Student Learning from Collaborative and Written Project Reports," New Directions in the Scholarship of Leaching and Learning Conference, Bowling Green State University, November, 2001.

"Making the Case: Retention, Tenure, Promotion, and the Scholarship of Teaching and Learning," American Association of Colleges and Universities Conference on Liberal Education, Washington, DC, January, 2004.

"Authentic Assessment in Introductory Statistics," ARTIST Roundtable Conference, Lawrence University, Appleton, WI., August, 2004.

"Understanding Lies, Damned Lies, and Statistics: A Look at Why So Many People Find Statistics Frustrating," Ohio Section of the Mathematics Association of America, Miami University, April 2005.

"Calls For 911 Service: A Collaboration Between Cleveland State University and the Cleveland City Police Department," International Conference on Teaching Statistics (ICOTS), Salvador, Brazil, July, 2006.

"Writing and Data Analysis Projects for Introductory Statistics," CAUSE Webinar to national audience, Fall 2006.

"Introducing Concepts of Statistical Inference via Randomization Tests," International Conference on Teaching Statistics (ICOTS), Ljubljana, Slovenia, July 2010.
"Exploring Student Understanding of Significance in Randomization-based Courses, International Statistics Institute Congress, Dublin, Ireland, August 2011.

Invited Workshop Presentations

"Using Projects in Introductory Statistics," NSF-Sponsored 5 day Workshop, Hope, Michigan, 1999.
"Using Real Data in a Term Long Project Sequence," and "Take Home Examinations for Use in Introductory Statistics," Beyond the Formula V Conference, Rochester, New York, August 2001.
"Real Data for Projects and Take Home Examinations," Teaching Statistics 2 day Workshop, Eastern Kentucky University, May 2004.
"Alternate Assessment for Introductory Statistics," Assessment Workshop, Minneapolis, MN., August, 2005 and MAA Minicourse, San Antonio, TX, January, 2006.
"A Beginner's Guide to SoTL", MAA Minicourse, San Antonio, TX, January, 2006.
"Making Statistics Real: Quantifying Health Effects of Domestic Violence", Beyond AP Statistics, Bowling Green, OH, April 2006.
"Navigating the First Statistics Service Course," CAUSE 5 day workshop, Rochester, NY August 2007.
"Conceptual Statistics Initiative," A CAUSE workshop, Joint Mathematics Meetings, San Diego, CA, January 2008.
"Introducing Concepts of Statistical Inference," A CAUSE workshop, USCOTS, Columbus, OH, June 2009.
"Become a Catalyst for Change in Statistics Education," A CAUSE workshop, USCOTS, Columbus, OH, June 2009 and the Joint Mathematics Meetings, San Francisco, CA, January, 2010.

Colloquiums

"Team Teaching Statistics Service Courses," Statistical Education Conference, Case Western Reserve University, October 1995.
"Communicating Data," Clarion University, March 1996.
"Visual Display of Statistical Data," Slippery Rock University, October, 1997 and January, 2004; St. Bonaventure University, May 1996.
"Simulation - Extrapolation Estimation for Calculated Variables," Wright State University, May 1998; Case Western Reserve University, October 1996.
"To Build or Merge - that is the Question," St. Bonaventure University, September 2000.
"Health Outcomes of Domestic Violence: A Statistical Analysis," Seton Hall University, December 2000; Villanova University, November 1999; Westminster College, February 1999; Xavier University, March 1998.
"The Scholarship of Teaching and Learning: A Humble Example in Introductory Statistics," Ohio Project NExT, The Ohio State University, April 2003, Wright State University, February, 2004.
"A Statistician Learns about Osteoporosis: a Summary of Methods and Results," Youngstown State University, April 2003.
"Teaching Statistics at the College Level: How Did I Get Here?" The Ohio State University, Fall 2006.

"Forecasting Police Calls during Peak Times for the City of Cleveland: A Case Study," Case Western Reserve University, April 2007, Cal Poly San Luis Obispo, May 2007, and Kenyon College, April, 2008.

High School Outreach

"Consider a Career in Statistics," High Schools in Northeast Ohio, 2014-present.
"Consider a Career in Statistics, Mathfest, Youngstown State University, October 2015.

CONSULTING

Hoppe, Frey, Hewitt & Milligan, Attorneys at Law, 1996-1998
Completed probability estimation for litigation cases.
City Clerk Candidate Sara Brown-Clark, 1999
Completed statistical analysis of voting patterns across precincts in city of Youngstown to estimate results with a candidate who had withdrawn from race.
Berea School District, Berea, OH; Evaluator, 2000-2001
Statistical Analysis for phoneme project to evaluate how children acquire sound recognition.
Seton Hall University, South Orange, NJ, External Evaluator, 2000-2003
External evaluator for innovative statistics education reform across several departments.
Northeast Ohio Regional Sewer District, Cleveland, OH, 2002
Simulated Sewage plant discharge levels from Cuyahoga River flow data for Ohio EPA report.
Assessment Resource Tools for Improving Statistical Education (ARTIST), Content Consultant for NSF funded grant related to assessment in statistics education.
ThinkFive Initiative, External Evaluator and Developer, Summer 2002
External evaluator and developer of on-line course materials for students and teachers of AP statistics.
Introductory Statistics, Advisory Panel Member, new text by Alan Agresti and Chris Franklin to be published by Prentice-Hall.
Northeast Ohio Regional Sewer District, Cleveland, OH, 2006,
Modeled bacteria levels of local beaches.
Northeast Ohio Regional Sewer District, Cleveland, OH, 2008-2009,
Modeled bacteria levels of local beaches and investigated data analysis methods for water safety.
Site Visitor, St. Cloud State University, Academic Program Review, Department of Mathematics and Statistics, Spring 2016.
Statistics Panelist, Dana Center at the University of Texas, State Transfer Guidelines, Spring 2017.

PROFESSIONAL SOCIETIES

Pi Mu Epsilon Mathematics Honors Society
Mathematics Association of America
American Statistical Association
Project Kaleidoscope - Science, Engineering, Mathematics, and Technology Faculty for the 21st Century

HONORS AND AWARDS

Project NExT Fellowship, Exxon Foundation and MAA, Summer 1995
Master Teacher, YSU College of Arts and Sciences, 1997-2000
Distinguished Professor, Teaching, Youngstown State University, Spring 1998
Carnegie Scholar, Carnegie Foundation for the Advancement of Teaching, 2000-2001
Waller Award for Teaching Excellence of Introductory Statistics, American Statistical Association, Summer 2003.
Distinguished Faculty Teaching Award, Cleveland State University, Fall 2005.
Chapter Service Recognition Award, American Statistical Association, August, 2006.

STUDENT ADVISEES

Mathematics (Graduate Exit Projects)

Julie Thornton, "Prediction and Diagnosis of Osteoporosis," 2001
Mark Backues, "SAS Programming with Yeast Data," 2002
Diem Hong Vuong, "Data Analysis of 911 Calls in the City of Cleveland in 2002," 2004
Michael Scott, "Teaching Linear Algebra and Multivariable Calculus with Technology," 2004
Vasile Lucien Pop, "Analyzing Cleveland Police Data by District and Building a Cleveland State University Enrollment Funnel," 2004
Rich Mociolek, "Cleveland Police Department: Officer Complaint Analysis 2000 – 2003," 2005
Michael Sarnowski, "Significance of Soil Moisture in Lythrum Salicaria (Canadian Weed)," 2005
Craig Jones, "Comparing Linear, Poisson, and ARIMA Modeling with Application to Cleveland Police Data," 2005
Lauren Sullenberger, "Comparing Multiple Regression Methods for Ordinal Data Applied to Stroke Research Data," 2005
Mark Skor, "Analysis of Summer Enrollment Survey, Student Demographics, and the 2005 Enrollment Cycle," 2006
Blerta Mellani, "Analysis of Ohio Graduation Test Scores for Parma School District," 2008.
Conrad Oyatsi, "The Correlation of Education and Military Expenditures with Linguistic Diversity, Economic Inequality, and Corruption," 2008
Kathleen Adams, "Analysis of Student Performance and Cleveland Central Catholic High School," 2008.
Artur Goduni, "Analysis of EEG Data for Brain Computer Interface," 2009.
Megan Scheider, "A retrospective study of time of day effects on mathematics and science performance in secondary school students," 2009.
Dan Shepherd, "Is Advantage Math Advantageous?" 2009.
Chris Reid, "A Time Series Analysis of 1999-2008 U.S. Traffic Fatalities," 2010.
Terry Provost, "Modeling Income Distribution in the U.S. (2007)," 2010.
Veronica Foster, "Predicting the 2010-2015 populations of Cuyahoga County, OH using correlates: time, poverty, unemployment, and births," 2010.
Wayne Colonna, "A Regression Analysis of the National Basketball Association," 2010.
Robert Zivsak, "Building a Course Portfolio to Teach AP Statistics," 2010
Amanda Dew, "Analysis of Student Evaluation and Department Pass Rates," 2011

Athanasius Lunjebe, "Linear Regression and LOESS Models for Brian Imaging Data," 2011
Thomas Tarver, "Time series analysis and forecasting methods for commercial and industrial electricity demand at Cleveland Public Power," 2014
William Junkin, "Econometric Analysis of Financial Time Series Data," 2015.
Kristal Mills, "Business Analytics with Excel," 2016.

Mathematics (Undergraduate Senior Projects)
Nathan Smith, "Use and Satisfaction of the CSU Mathematics Assistance Center," 2009
Chris Reid, "A Statistical Analysis of all 2005 Fatal Car Accidents in the United States," 2008.
Michael McGuire, "Analysis of a Droplet in Spray," 2009.
Tyler Vance, "The Achievement Gap in Chemistry," 2019.
Henry Lynes, "The Achievement Gap and Student Success in Introductory Mathematics Classes," 2019.
Jordan Sadler, "Analysis of Precalculus I – Calculus II Sequence," 2020

Masters of Public Health
Ray Harvey, "A meta-analytical review of the perceived threat of HIV among gay men from 1980-2003," 2004
Electrical Engineering
Sailesh Shastri, "Predicting Public Supply Water Use in Ohio Using Regression," 2005 (co-advised with Dr. Yongjian Fu)

PROFESSIONAL SERVICE
Reviewer, National Science Foundation,
Conference Organizer, Statistics Educators Conference for greater Northeast Ohio, Spring 1997
National Page Webmaster, Pi Mu Epsilon Council, 1998-2000
Associate Editor, *Journal of Statistics Education*, 1998-2004
Referee, *The American Statistician*, 1999, 2003, 2006-2008
Journal of the Royal Statistical Society – Series B, 2002
Journal of Statistics Education, 2005-2010
Technology Innovations in Statistics Education, 2007, 2008, 2010, 2011
College Mathematics Journal, 2008 and 2009
Bone, 2009
Learning and Individual Differences, 2011
Session Organizer, Projects in Statistics Education, Joint Statistical Meetings, Summer 1999
Session Organizer, Distance Learning, Joint Statistical Meetings, Summer 2000
Roundtable Lunch Discussion Organizer, Joint Statistical Meetings, Summer 2001
Ohio NExT Organizer, Recruitment coordinator for OH MAA Section, Summer 2001-2003
Committee Member, Joint MAA-ASA Committee, 2001-2007
Advisory Board Member, ASA representative to the MAA advisory board for the Committee on Mathematics Competitions, 2001 – 2007
Program Chair, Section on Statistics Education, for ASA Joint Statistical Meetings, Summer 2002

AP Statistics Reader, Educational Testing Services, Summer 2002-2003, 2005-2010
Member of Research Advisory Board for Consortium for the Advancement of Undergraduate Statistics Education (CAUSE), 2002-2011
Member, Undergraduate Data Analysis Poster Competition Advisory Board, 2005-present
Judge, ASA Statistics K-12 Poster Competition, Cleveland, OH, Spring 2003 - present
Science Fair Mentor, Statistical advisor for High school students, Mentor, OH, 2003-present
Judge, International Science and Engineering Fair, Cleveland, OH, Summer 2003
Treasurer, Cleveland Chapter of the American Statistical Association, 2002-2004, 2011, 2013-2014
President, Cleveland Chapter of the American Statistical Association, 2005-2010
Chair, Committee for Best Paper Award in the *Journal of Statistics Education*, American Statistical Association, 2011-present
Member, Presidential Task Force on Statistical Career Development, American Statistical Association, Fall 2015-present
Member, Joint AMS-MAA Data Committee, 2017-2019

UNIVERSITY AND DEPARTMENT SERVICE

Presenter, Sonia Kovalevsky Day, September 2000
Computer Planning Committee, 2000-2010
Mathematics Dept. Undergraduate Program Committee, 2001-2006, 2007-2009
University Assessment Council, 2002-2005
Ad-hoc Arts and Sciences College Reorganization Committee, 2002
Department Assessment Committee, 2002-2003
College of Science Transition Committee, 2003
College of Arts and Sciences Curriculum Committee, 2003-2004
Department Appointments Committee, 2004-2006, 2007-present, (Chair)
College of Science Budget and Planning Committee, 2004-2006, 2008-2010 (Chair)
University President's Budget Advisory Committee, 2004-2006
Committee Awarding Provost's Research for Undergraduates, Grants 2008
Graduate Council, 2008-2010
College of Science Promotion and Tenure Committee, 2009
Faculty Senate, 2010-2011
COSHP Safety Committee, 2010-2011
Search Committee, Vice Provost for Planning, 2011
Search Committee, Assistant Vice President of Development, 2011-2012
Co-Convener, Provost-Chair Council, 2011-2012
Search Committee, University Provost, 2012
Search Committee, Director School of Health Sciences, 2015-2016
Search Committee, Associate Dean COSHP, 2015-2016
Main Classroom Renovation Committee; 2014-2016
AASCU Re-imaging the First Year of College, 2015-present
Civitas Working Group, 2015-2018
Placement Test Working Group, 2016-present
Mission, Vision, and Values Committee – Co-Chair, 2016-2017