

Elizabeth Gilbert

Mathematics Department
Worcester State University
486 Chandler Street, Worcester, MA 01602
elizabeth.gilbert@worchester.edu
(508)929-8420

Education

Ph.D. Statistics, May 2016

Temple University, Philadelphia, PA

Thesis: The Validity of Summary Comorbidity Measures

Thesis Advisors: Robert T. Krafty and Brian L. Egleston

M.S. Applied Statistics, May 2011

Villanova University, Villanova, PA

B.S. Mathematics, May 2010

Villanova University, Villanova, PA

Employment

Worcester State University, September 2016-Present

Assistant Professor of Mathematics

Temple University, August 2011-June 2016

Instructor/Graduate Teaching Assistant

Rowan University, January 2013-May 2016

Adjunct Teaching Instructor

Philadelphia University, August 2013-May 2015

Adjunct Teaching Instructor

Merck and Co., June 2010-August 2010

Graduate Intern

Research Interests

Prognostic scores

Causal inference

Survival analysis

Dimension reduction

Analysis of large observational databases

Teaching

Worcester State University

MA 150: Statistics I (Traditional and Blended)
MA 180: Introduction to Functions (Traditional and Blended)
MA 302: Probability and Statistics
MA 349: Financial Mathematics
MA 470: Capstone Experience
MA 497: Special Topics: Financial Mathematics
MA 499: Independent Study for MA 304: Data Analysis
MA 499: Independent Study for Financial Mathematics

Temple University

STAT 1001: Quantitative Methods for Business I (Pre-calculus)
STAT 1102: Quantitative Methods for Business II (Calculus) - Graduate TA
STAT 2103: Statistical Business Analytics - Graduate TA

Rowan University

STAT 02260: Statistics I
STAT 02100: Elementary Statistics

Philadelphia University

STAT 220: Statistics for the Behavioral Sciences

Grants

Spring 2019
Worcester State Foundation Grant
Faculty Scholarship, Research, and Creative Activity

Talks, Presentations, and Posters

Presentations and Seminar Talks

June 6, 2019
Conference on Acceleration in Developmental Education (CADE)
Math Placement and Developmental Course Acceleration at WSU
San Diego, CA

January 23, 2019
Worcester State University Faculty Luncheon Series: Math and Writing Support
A Data Analysis of the Math Tutoring Center
Worcester State University - Worcester, MA

November 11, 2014
Fox Chase Cancer Center Quantitative Science Meeting
The Validity of Summary Comorbidity Measures
Fox Chase Cancer Center - Philadelphia, PA

Posters

November 5, 2019

WSU Faculty Scholarship & Creativity Showcase

WSU Math Center

Worcester, MA

March 6, 2016

ENAR 2016 Spring Meeting

On Justifying the Use of Summary Comorbidity Measures for Health Services Research

Austin, TX

Publications

E. A. Gilbert, R. T. Krafty, R. J. Bleicher and B. L. Egleston (2017)

On the use of summary comorbidity measures for prognosis and survival treatment effect estimation. Health Serv Outcomes Res Method. 17: 237-255. doi: 10.1007/s10742-017-0171-2

Workshops and Conference Participation

NES/MAA Section NExT Fall Meeting (November 2019)

Babson College - Wellesley, MA

NEISM 24 2019 Meeting (November 2019)

Wellesley College - Wellesley Hills, MA

Conference on Acceleration in Developmental Education (June 2019)

San Diego, CA

Center for Teaching and Learning Summer Institute (May 2019)

Worcester State University - Worcester, MA

NEISM 23 2018 Meeting (October 2018)

Wellesley College - Wellesley Hills, MA

Conference on Acceleration in Developmental Education (June 2018)

Washington, D.C.

Massachusetts Colleges Online Conference on eLearning (June 2018)

Framingham State University - Framingham, MA

Center for Teaching and Learning Winter Institute (January 2018)

Worcester State University - Worcester, MA

NEISM 22 2017 Meeting (November 2017)
Stonehill College - Easton, MA

Center for Teaching and Learning Summer Institute (May 2017)
Worcester State University - Worcester, MA

NES/MAA Section NExT Fall Meeting (November 2016)
Trinity College - Hartford, CT

Statistics Through Application Webinar (November 2016)
Bedford, Freeman, and Worth Publishers

NEISM 21 2016 Meeting (October 2016)
Stonehill College - Easton, MA

ENAR 2016 Spring Meeting (March 2016)
Austin, TX

Professional Memberships

American Statistical Association

Honors and Awards

Beta Gamma Sigma National Business Honor Society, 2016

Beta Gamma Sigma is the international honor society serving business programs accredited by AACSB International.

Fox School Award for Excellence in Teaching, 2014

An annual teaching award given to one graduate teaching assistant in the Department of Statistics at Temple University's Fox School of Business.

George Carides Memorial Award, 2013

An annual award given to one graduate student for excellence on Temple University's Department of Statistics Ph.D screening exam, as well as a high level of participation in department activities.

Professional Activities and Service

Director of the Math Center, Worcester State University,
Spring 2019 - Spring 2020

Search Committee (Chair), Worcester State University
Mathematics Department, Fall 2019 - Spring 2020

Placement Committee, Worcester State University
Mathematics Department, Fall 2017 - Spring 2020

Retention, Recruitment, and Alumni Committee (Chair Fall 2018 - Spring 2019), Worcester State University Mathematics Department,
Fall 2016 - Spring 2020

University Curriculum Committee, Worcester State University
Fall 2018 - Spring 2020

Speakers and Awards Committee (Chair), Worcester State University,
Fall 2018 - Spring 2019

Eureka! Program, Girls Inc. of Worcester, July 2017, July 2018, July 2019
A program for 7th and 8th grade girls designed to increase understanding of the importance of STEM through fun, instructional activities.

Co-Director of the Math Center, Worcester State University,
Fall 2018

Assessment Committee, Worcester State University
Mathematics Department, Fall 2017 - Spring 2018

Scholarship Committee, Worcester State University,
Fall 2017 - Spring 2018

Undergraduate Summer Research Committee, Worcester State University,
Spring 2017 - Spring 2018

Social Committee (Co-Chair), Worcester State University
Mathematics Department, Fall 2016 - Spring 2017

TUGSA, Temple University, 2011 - 2016
Member of the Temple University Graduate Student Association.

TAGSS, Temple University, 2011 - 2016
Member of the Temple Association of Graduate Students in Statistics.

Grader for Statistical Data Challenge for High School Students,
Temple University, Spring 2016

Consultant for Temple University's Center for Statistical Analysis,
Temple University, Spring 2012
Completed a project for the Einstein Medical Center in Philadelphia, PA.

'Choice Based Conjoint Analysis Conference' Organizer,
Temple University, Spring 2012

**'Statistical Methodology in Medicine and Biological Sciences
Conference' Organizer,**
Temple University, Fall 2011