

Elizabeth Eisenhauer

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Research interests: applied statistics, animal movement modeling

EDUCATION

The Pennsylvania State University, State College, PA

Doctorate of Philosophy (post-candidacy), Statistics, August 2017 – present

- Distinguished Graduate Fellow, August 2017 – May 2018
- Vollmer-Kleckner Scholarship in Science, August 2018 – May 2019
- Science on Tap Committee Member, Penn State Science Policy Society, May 2019 – present

The College of New Jersey (TCNJ), Ewing, NJ

Bachelor of Arts, Mathematics with Statistics specialization, August 2013 – May 2017

- Magna cum laude
- Departmental Honors
- Phi Beta Kappa Honors Society
- Pi Mu Epsilon Mathematics Honors Society
- President of TCNJ Environmental Club
- Vice President and co-founder of TCNJ Veg Life Club

RESEARCH

Graduate Research Assistant, Department of Statistics, The Pennsylvania State University, State College, PA

June 2018 – August 2018, January 2019 – present

Advisor: Dr. Ephraim Hanks

- Developed a stochastic differential equation framework allowing for irregular time intervals between observations, which would be applied to animal movement data
- Presented a poster at the 2018 American Statistical Association's Statistics for the Environment Workshop
- Presented a poster at the 2019 Rao Prize Conference

Graduate Research Assistant, Department of Statistics, The Pennsylvania State University, State College, PA

June 2017 – August 2017

Advisor: SCRiM Researcher Dr. Murali Haran

- SCRiM project involving development of statistical methods for analyzing non-Gaussian time series data, with applications to precipitation time series
- Took part in SCRiM Summer School 2017

Undergraduate Honors Research, Department of Mathematics, TCNJ, Ewing, NJ

June 2016 – May 2017

Advisor: Dr. Michael Ochs

- Creation of structural equations and graphical models to understand the limits of learnability of cell signaling networks based on high-throughput biological measurements with a focus on cell signaling networks in head and neck squamous cell carcinoma
- Presented at TCNJ Mentored Undergraduate Summer Experience 2016 Poster Session
- Presented a poster at the 2017 Eastern North American Region International Biometric Society Spring Meeting

- Presented a poster at TCNJ Celebration of Student Achievement Poster Session in May 2017

TEACHING

Lab instructor for STAT 200: Elementary Statistics, Department of Statistics, The Pennsylvania State University, State College, PA

August 2018 – December 2018

- Led introductory statistics labs with 60-80 undergraduate students
- Held weekly office hours

Graduate Student Online Teaching Certification, Pennsylvania State University, State College, PA
May 2019

- OL 2050 : Essentials of Online Teaching for Graduate Students

DESIGN

Graphic Designer, TCNJ Office of Student Activities, Ewing, NJ

September 2014 – May 2016

- Consulted with faculty and student organizations on how best to meet their design goals
- Completed individual graphic design projects and packages (logos, posters, t-shirt designs, and murals)

VOLUNTEER

Operations Intern, TerraCycle, Inc., Trenton, NJ

December 2015 – April 2016

- Analysis of shipping operations through manipulation of Excel spreadsheets
- Improvement of zero-waste office collection program

Statistics Project Manager, The Rainbird Foundation, Madison, WI

December 2014 – October 2015

- Compilation and analysis of child abuse data from across the United States
- Discovery of the importance of understanding data generation to analyze data well

TECHNICAL SKILLS

Working knowledge of R, RMarkdown, Latex, Github, Minitab Express, Microsoft Office Suite, and Adobe Creative Suite

Basic knowledge of SPSS, SAS, MatLab, HTML, and CSS

Base Certification for SAS 9, July 2015

AFFILIATIONS

Ecological Society of America, May 2019 – present

The Wildlife Society, May 2019 – present

American Statistical Association. August 2014 – present