

EDUCATION

Wake Forest University

Winston-Salem, NC

M.S. in Statistics, GPA: 4.00/4.00

Expected May 2024

Graduate Certificate in Data Science, GPA: 4.00/4.00

Thesis Advisor: Sarah Lotspeich, Ph.D.

- Thesis in progress: Adjusting for misclassification to quantify the relationship between diabetes and local access to healthy food

University of Scranton

Scranton, PA

B.S. in Applied Mathematics and Philosophy, *Summa Cum Laude*, GPA: 3.94/4.00

May 2022

Minors in Computer Science and Finance, Concentration in Data Science

Honors Program, Special Jesuit Liberal Arts Honors Program

Thesis Advisor: Murong Xu, Ph.D.

- Thesis: Music Feature Classification: Using Techniques of Machine Learning to Detect Genre
- Available from <https://digitalservices.scranton.edu/digital/collection/p15111coll1/id/1340/rec/68>

St. Anthony's High School

South Huntington, NY

Advanced Regents Diploma

June 2018

RESEARCH AND WORK EXPERIENCE

8. Lead Teaching Assistant

Winston-Salem, NC

Wake Forest University, Departments of Statistical Sciences and Mathematics

Mar 2023 – Present

Mentor: Lynne Yengulalp, Ph.D.

- Managed scheduling and logistics for over 70 teaching assistants and tutors
- Developed resources for pedagogical training and curriculum support

7. Research Assistant

Winston-Salem, NC

Wake Forest University, Department of Statistical Sciences

Jan 2023 – Present

Mentors: Sarah Lotspeich, Ph.D. and Tanya Garcia, Ph.D.

- Developed methods for error-prone data
- Contributed to ongoing lab projects and manuscripts

6. Data Science Intern

Winston-Salem, NC

Hanesbrands

June 2023 – August 2023

- Designed and implemented a scalable predictive sales model prototype
- Identified a multi-million dollar sales growth opportunity for a major account

5. Academic Tutor

Huntington, NY

Self-Employed

January 2012 – Present

- Supported students with mathematics and statistics coursework
- Prepared students for standardized exams

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| <p>4. Summer Research Intern
 <i>Central Washington University, Department of Mathematics</i>
 Mentor: Sooie-Hoe Loke, Ph.D.</p> <ul style="list-style-type: none"> • Modeled a popular game show using R and Python • Communicated findings to peers and mentors using Beamer presentations • Attended workshops, talks, and lectures by field experts | <p>Virtual
 June 2021 – August 2021</p> |
| <p>3. Summer Research Intern
 <i>Carnegie Mellon University, Department of Statistics and Data Science</i>
 Mentors: Sam Ventura, Ph.D. and Ron Yurko, Ph.D.</p> <ul style="list-style-type: none"> • Worked on visualization and modeling projects in sports analytics using R • Attended workshops, talks, and lectures by field experts | <p>Virtual
 June 2020 – August 2020</p> |
| <p>2. Academic Tutor
 <i>University of Scranton, Center for Teaching and Learning Excellence</i></p> <ul style="list-style-type: none"> • Supported individual students with coursework in math, statistics, computing, logic • Reinforced classroom instruction for small groups of students on a drop-in basis | <p>Scranton, PA
 March 2019 – May 2022</p> |
| <p>1. Financial Analyst
 <i>VentureBrandUSA LLC</i></p> <ul style="list-style-type: none"> • Developed spreadsheet templates to model investment values over time | <p>East Northport, NY
 July 2019 – July 2021</p> |

HONORS AND AWARDS

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| <p>12. Graduate Student Award for Outstanding Scholarship, Wake Forest University
 Awarded by the Department of Statistical Sciences for scholarship, ingenuity, and dedication</p> | <p>2024</p> |
| <p>11. Travel Award, Women in Statistics and Data Science Conference
 Merit-based award for student or early professional conference attendees</p> | <p>2023</p> |
| <p>10. Gertrude M Cox Scholarship
 Awarded by the American Statistical Association to an early-career graduate student</p> | <p>2023</p> |
| <p>9. Teaching Assistantship, Wake Forest University
 Full tuition grant and teaching stipend</p> | <p>2022 – 2024</p> |
| <p>8. Provost Merit Scholarship, Wake Forest University
 Merit-based graduate student award</p> | <p>2022 – 2024</p> |
| <p>7. Outstanding Poster, Mathematical Association of America MathFest
 Awarded for excellent project presentation and poster design</p> | <p>2022</p> |
| <p>6. Excellence in Applied Mathematics Award, University of Scranton
 Merit-based department award</p> | <p>2022</p> |
| <p>5. Humanities Fellow, University of Scranton Slattery Center
 Undergraduate humanities research grant</p> | <p>2021 – 2022</p> |
| <p>4. Presidential Scholarship, University of Scranton
 Merit-based full-tuition scholarship awarded for exemplary academic achievement</p> | <p>2018 – 2022</p> |
| <p>3. Dean's List, University of Scranton
 Distinction granted to full-time students with a GPA above 3.50</p> | <p>2018 – 2022</p> |
| <p>2. Central Convergence REU Scholar
 Undergraduate research grant</p> | <p>2021</p> |
| <p>1. National Hispanic Scholar, Hispanic Scholarship Fund
 Merit-based distinction and scholarship awarded to university students of Hispanic heritage</p> | <p>2018 – 2020</p> |

PRESENTATIONS

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| 8. Invited Talk: Adjusting for Misclassification to Quantify the Relationship Between Diabetes and Local Access to Healthy Food - <i>Invited Talk, University of Scranton</i> | Scranton, PA
March 2025 |
| 7. Contributed Talk: Adjusting for Measurement Error to Quantify the Relationship Between Diabetes and Local Access to Healthy Food - <i>ENAR Spring Meeting</i> | Baltimore, MD
March 2024 |
| 6. Contributed Poster: Rate This Interruption: Using Interrupted Time Series Techniques to Analyze Popular Television Couples and Episode Ratings
<i>Women in Statistics and Data Science Conference</i> | Bellevue, WA
October 2023 |
| 5. Contributed Poster: Music Feature Classification: Using Techniques of Machine Learning to Detect Genre - <i>Mathematical Association of America MathFest Conference</i> | Philadelphia, PA
August 2022 |
| 4. Contributed Poster: Deal or No Deal: Modeling a Game Show with Utility Theory and Machine Learning - <i>Joint Mathematics Meetings</i> | Virtual
April 2022 |
| 3. Contributed Poster: Deal or No Deal: Modeling a Game Show with Utility Theory and Machine Learning - <i>SACNAS NDiSTEM Conference</i> | Virtual
August 2021 |
| 2. Featured Talk: Deal or No Deal: Modeling a Game Show with Utility Theory and Machine Learning - <i>Mount Stuart Mathematics Seminar Series</i> | Virtual
August 2021 |
| 1. Featured Talk: A Puck Above the Rest: The Effects of New Data on 2020 NHL Draft Decisions
<i>Carnegie Mellon Sports Analytics Conference</i> | Virtual
October 2020 |

ADDITIONAL PROJECTS

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| 4. Point Made: Exploring Factors that Contribute to Team Success
<i>Carnegie Mellon Sports Analytics Camp</i>
Mentors: Ron Yurko, Ph.D. and Nick Citrone, M.S.
Coauthor: Alana Willis | 2020 |
| <ul style="list-style-type: none">• Modeled NBA season results with regression techniques | |
| 3. Batter Up! Visualizing the 2019 MLB Season
<i>Carnegie Mellon Sports Analytics Camp</i>
Mentors: Ron Yurko, Ph.D. and Nick Citrone, M.S.
Coauthor: Zhiwei Xiao | 2020 |
| <ul style="list-style-type: none">• Visualized results for top hitters of the 2019 baseball season in R | |
| 2. An Analysis of SAT Results for New York City Students of the Class of 2010
<i>The University of Scranton, Introduction to Data Science</i>
Mentor: Jason Graham, Ph.D. | 2019 |
| <ul style="list-style-type: none">• Compared mean SAT scores across the population of New York City high schools | |
| 1. Biodiversity in Bryozoan Garden Communities of the Antarctic Marine Shelf
<i>Long Island University, Department of Biology</i>
Mentors: Scott Santagata, Ph.D. and Paul Paino | 2017 |
| <ul style="list-style-type: none">• Quantified and compared biodiversity indices across the Scotia and Weddell Seas | |

TEACHING

3. **Wake Forest University** Winston-Salem, NC
Teaching Assistant: STA111 - Elementary Probability and Statistics Aug 2022 – May 2023
Supervising Professor: Leo Cella, Ph.D.
 - Supported mathematics and statistics undergraduate students in introductory coursework
2. **University of Scranton** Scranton, PA
Teaching Assistant: INTD 290 - Leadership and Civic Responsibility May 2020 – Aug 2020
Supervising Professors: Teresa Grettano, Ph.D. and Stephen Whittaker, Ph.D.
 - Assisted with curriculum revision, facilitated weekly small group discussion, and oversaw student presentations
1. **University of Scranton** Scranton, PA
Sectional Assistant: Performance Music Aug 2018 – May 2022
Supervising Instructor: Cheryl Boga
 - Assisted with group strings lesson facilitation and corrected playing technique
 - Instructed small groups of choir members in aspects of selected choral literature

PROFESSIONAL SERVICE AND MEMBERSHIPS

Committees

- International Biometric Society (IBS), Eastern North America Region (ENAR)
 - * Social Media Committee 2023-2024

Officer Roles

- President
 - * Pi Mu Epsilon, University of Scranton Chapter 2021-2022
- Secretary
 - * Phi Sigma Tau, University of Scranton Chapter 2021-2022
 - * Upsilon Pi Epsilon, University of Scranton Chapter 2021-2022

Memberships

- American Statistical Association 2023-
- Caucus for Women in Statistics 2023-
- International Biometric Society, Eastern North American Region (ENAR) 2023-
- Alpha Sigma Nu - National Jesuit Honor Society 2022-
- Pi Mu Epsilon - National Honor Society in Mathematics 2021-
- Upsilon Pi Epsilon - International Honor Society in Computing 2021-
- Phi Sigma Tau - International Honor Society in Philosophy 2021-

Conference Activities

- Invited Session Organizer
 - * “Course Correcting for Coarsened Data”
Women in Statistics and Data Science, Bellevue, WA Oct 2023
- Session Chair (Frequency)
 - * *ENAR Spring Meeting* (1), *Women in Statistics and Data Science* (1)

LEADERSHIP

Wake Forest University

Lead Teaching Assistant - Departments of Statistical Sciences and Mathematics

Mar 2023 - May 2024

- Facilitated mentorship opportunities for new graduate students

University of Scranton

College of Arts and Sciences Dean's Ambassador

Dec 2021 – May 2022

- Presented student concerns to administrators

Admissions Ambassador

Oct 2019 – May 2022

- Panelist for College of Arts and Sciences admission events
- Panelist for prospective Special Jesuit Liberal Arts Honors Program student webinar
- Mathematics student ambassador at in-person and virtual information sessions
- Panelist for virtual information sessions for the Performance Music Department

Mathematics Club (President)

Aug 2018 – May 2022

- Planned events for students in the department
- Organized opportunities for new students to connect with peer mentors

HackScranton Club (Vice President)

Aug 2019 – Dec 2021

- Facilitated club meetings and activities
- Maintained log of club service and social media presence

Royal Investment Group

Aug 2018 – May 2021

- Promoted computational literacy among club members
- Created visualizations of changes in portfolio holdings in R

Club Council

Aug 2019 – May 2020

- Updated club members on changes to university policy for student organizations
- Participated in leadership training sessions

LANGUAGES

English

Native Language

Spanish

Intermediate Oral and Written Proficiency

SELECTED SKILLS

Programming and Technical

R (advanced), SQL (intermediate), Python (intermediate), LaTeX (intermediate), GitHub (intermediate), Java (intermediate), Julia (novice), Shiny (novice), Power BI (novice), Cluster Computing (novice)

Applications

Microsoft Suite (advanced), Google Suite (advanced), Bloomberg Terminal (novice)

Other

Data Visualization, Statistical Modeling, Creativity