

EDUCATION

Wake Forest University

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

Graduate Certificate in Data Science, GPA: 4.00/4.00

Winston-Salem, NC

May 2024

University of Scranton

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

- Minors in Computer Science and Finance, Concentration in Data Science
- Honors Program, Special Jesuit Liberal Arts Honors Program

Scranton, PA

May 2022

St. Anthony's High School

Advanced Regents Diploma

South Huntington, NY

June 2018

RESEARCH AND WORK EXPERIENCE

Lead Teaching Assistant

Wake Forest University, Departments of Statistical Sciences and Mathematics

Mentor: Lynne Yengulalp, Ph.D.

- Managed scheduling operations and communication for the Math and Stats Center
- Supported over 70 teaching assistants and tutors
- Developed resources for pedagogical training and curriculum support

Winston-Salem, NC

Mar 2023 – Present

Research Assistant

Wake Forest University

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

- Developed methods for censored covariate data
- Contributed to ongoing lab projects

Winston-Salem, NC

Jan 2023 – Present

Data Science Intern

Hanesbrands

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

Winston-Salem, NC

June 2023 – August 2023

Academic Tutor

Self-Employed

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

Huntington, NY

Jan 2012 – Present

Summer Research Intern

Central Washington University, Department of Mathematics

Mentor: Sooie-Hoe Loke, Ph.D.

(Virtual) Ellensburg, WA

Jun 2021 – Aug 2021

- 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

Summer Research Intern

Carnegie Mellon University, Department of Statistics and Data Science
Mentors: Sam Ventura, Ph.D. and Ron Yurko, Ph.D.

(Virtual) Pittsburgh, PA
Jun 2020 – Jul 2020

- Worked on visualization and modeling projects in sports analytics using R
- Attended workshops, talks, and lectures by field experts

Academic Tutor

University of Scranton, Center for Teaching and Learning Excellence

Scranton, PA
Mar 2019 – May 2022

- Supported individual students with coursework in math, statistics, computing, logic
- Reinforced classroom instruction for small groups of students on a drop-in basis

Financial Analyst

VentureBrandUSA LLC

East Northport, NY
Jul 2019 – Jul 2021

- Developed spreadsheet templates to model investment values over time

HONORS AND AWARDS

Gertrude M Cox Scholarship

2023

Awarded by the American Statistical Association to an early-career graduate student

Wake Forest University Teaching Assistantship

2022 – 2024

Full tuition grant and teaching stipend

Wake Forest University Provost Merit Scholarship

2022 – 2024

Merit-based graduate student award

Mathematical Association of America MathFest Outstanding Poster

2022

Awarded for excellent project presentation and poster design

University of Scranton Excellence in Applied Mathematics Award

2022

Merit-based department award

University of Scranton Slattery Center Fellow

2021 – 2022

Undergraduate humanities research grant

University of Scranton Presidential Scholarship

2018 – 2022

Merit-based full-tuition scholarship awarded for exemplary academic achievement

University of Scranton Dean's List

2018 – 2022

Distinction granted to full-time students with a GPA above 3.50

Central Convergence REU Scholar

2021

Undergraduate research grant

Pi Mu Epsilon (Chapter President) Inducted into national honor society in mathematics	2021
Phi Sigma Tau (Chapter Secretary) Inducted into national honor society in philosophy	2021
Alpha Sigma Nu Inducted into national Jesuit honor society	2021
Upsilon Pi Epsilon (Chapter Secretary) Inducted into international honor society for computing and information disciplines	2021
Omega Beta Sigma Inducted into honor society for women in business	2021
National Hispanic Scholar Merit-based distinction and scholarship awarded to university students of Hispanic heritage	2018 – 2020

PROJECTS

Music Feature Classification: Using Techniques of Machine Learning to Detect Genre Affiliation: University of Scranton Honors Program Mentor: Murong Xu, Ph.D. <ul style="list-style-type: none"> – Undergraduate honors thesis project, defended May 2022 – Utilized a convolutional neural network and a random forest to build and analyze a genre classification system 	2022
Deal or No Deal: Modeling a Game Show with Utility Theory and Machine Learning Affiliation: Central Convergence Research Experience for Undergraduates Mentor: Sooie-Hoe Loke, Ph.D. Coauthors: Austin Biondi, Dylan Jamner, Michael Wise <ul style="list-style-type: none"> – Used techniques from machine learning and utility theory to predict and explain behavior of show contestants and the banker 	2021
A Puck Above the Rest: The Effects of New Data on 2020 NHL Draft Decisions Affiliation: Carnegie Mellon Sports Analytics Camp, Pittsburgh Penguins Mentors: Sam Ventura, Ph.D., Ron Yurko, Ph.D., Nick Citrone, M.S. Coauthor: Lucy Ward <ul style="list-style-type: none"> – Quantified and projected future performance for 2020 NHL draft prospects 	2020
Point Made: Exploring Factors that Contribute to Team Success Affiliation: Carnegie Mellon Sports Analytics Camp Mentors: Ron Yurko, Ph.D. and Nick Citrone, M.S. Coauthor: Alana Willis <ul style="list-style-type: none"> – Modeled NBA season results with regression techniques 	2020
Batter Up! Visualizing the 2019 MLB Season Affiliation: Carnegie Mellon Sports Analytics Camp Mentors: Ron Yurko, Ph.D. and Nick Citrone, M.S. Coauthor: Zhiwei Xiao <ul style="list-style-type: none"> – Visualized results for top hitters of the 2019 baseball season in R 	2020

An Analysis of SAT Results for New York City Students of the Class of 2010 2019

Affiliation: The University of Scranton, Introduction to Data Science

Mentor: Jason Graham, Ph.D.

- Compared mean SAT scores across the population of New York City high schools

Biodiversity in Bryozoan Garden Communities of the Antarctic Marine Shelf 2017

Affiliation: Long Island University

Mentors: Scott Santagata, Ph.D. and Paul Paino

- Quantified and compared biodiversity indices across the Scotia and Weddell Seas

TEACHING

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

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

- Assisted with curriculum revision, facilitated weekly small group discussion, and oversaw student presentations

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

Conference Activities

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

Oct 2023

LEADERSHIP

University of Scranton

College of Arts and Sciences Dean’s Ambassador

Dec 2021 – May 2022

- Represented the mathematics department
- Presented student concerns to college 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

PRESENTATIONS

Women in Statistics and Data Science Bellevue, WA
 Poster: Estimating Mean Residual Life as a Proxy for Time to Diagnosis of Huntington's Disease October 2023

Mathematical Association of America: MathFest Philadelphia, PA
 Poster: Music Feature Classification: Using Techniques of Machine Learning to Detect Genre Aug 2022

Joint Mathematics Meetings Virtual
 Poster: Deal or No Deal: Modeling a Game Show with Utility Theory and Machine Learning Apr 2022

SACNAS NDiSTEM Conference Virtual
 Poster: Deal or No Deal: Modeling a Game Show with Utility Theory and Machine Learning Oct 2021

Mount Stuart Mathematics Seminar Series Virtual
 Deal or No Deal: Modeling a Game Show with Utility Theory and Machine Learning Aug 2021

Carnegie Mellon Sports Analytics Conference Virtual
 A Puck Above the Rest: The Effects of New Data on 2020 NHL Draft Decisions Oct 2020

LANGUAGES

English
 Native Language

Spanish
 Intermediate Oral and Written Proficiency

SELECTED SKILLS

Programming

R (intermediate), SQL (intermediate), Python (intermediate), LaTeX (intermediate), Java (intermediate)
Julia (novice), Shiny (novice)

Applications

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

Other

Data Visualization, Statistical Modeling, Creativity