Ashley E. Mullan

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EDUCATION

Vanderbilt University

Nashville, TN

Ph.D. in Biostatistics, GPA: 3.88/4.00

Expected May 2029

Wake Forest University

Winston-Salem, NC

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

Graduate Certificate in Data Science, GPA: 4.00/4.00

May 2024

Thesis Advisor: Sarah Lotspeich, Ph.D.

- Thesis: Adjusting for covariate misclassification to quantify the relationship

between diabetes and local access to healthy food

University of Scranton

Scranton, PA May 2022

B.S. in Applied Mathematics and B.A. in 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

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

June 2018

Advanced Regents Diploma

RESEARCH AND WORK EXPERIENCE

10. Research Assistant Nashville, TN

Vanderbilt University Medical Center, Department of Biostatistics July 2024 - Present

Mentor: Rameela Raman, Ph.D.

9. Lead Teaching Assistant Winston-Salem, NC

Wake Forest University, Departments of Statistical Sciences and Mathematics Mar 2023 - May 2024

Mentor: Lynne Yengulalp, Ph.D.

8. Research Assistant Winston-Salem, NC

Wake Forest University, Department of Statistical Sciences Jan 2023 - May 2024

Mentor: Sarah Lotspeich, Ph.D.

Winston-Salem, NC 7. Data Science Intern

HanesbrandsJune 2023 – August 2023

6. Academic Tutor Huntington, NY Self-Employed January 2012 - Present

5. Summer Research Intern Virtual

Central Washington University, Department of Mathematics June 2021 - August 2021

Mentor: Sooie-Hoe Loke, Ph.D.

4.	Summer Research Intern Carnegie Mellon University, Department of Statistics and Data Science Mentors: Sam Ventura, Ph.D. and Ron Yurko, Ph.D.	Virtual June 2020 – August 2020			
3.	Academic Tutor University of Scranton, Center for Teaching and Learning Excellence	Scranton, PA March 2019 – May 2022			
2.	Financial Analyst VentureBrandUSA LLC	East Northport, NY July 2019 – July 2021			
1.	Research Intern Long Island University, Department of Biology Mentors: Scott Santagata, Ph.D. and Paul Paino	Brookville, NY March 2017 – August 2017			
Honors and Awards					
16.	SPAIG Award, American Statistical Association Given annually to recognize outstanding collaborations among academe, industry, and organizations while recognizing key individual contributors	government	2025		
15.	Highly Commended Article, Significance Magazine Designation from the annual Statistical Excellence Award for Early-Career Writing Co	ompetition	2024		
14.	Russell G. Hamilton Scholar, Vanderbilt University		2024-2029		
13.	Provost's Graduate Fellowship, Vanderbilt University		2024-2029		
12.	Graduate Student Award for Outstanding Scholarship, Wake Forest Univer Awarded by the Department of Statistical Sciences for scholarship, ingenuity, and dedi	-	2024		
11.	Travel Award, Women in Statistics and Data Science Conference Merit-based award for student or early professional conference attendees		2023, 2024		
10.	Gertrude M Cox Scholarship, American Statistical Association Awarded for dedication to statistical inquiry, passion for mentoring, and extraordinary to scholarly excellence	v commitment	2023		
9.	Teaching Assistantship, Wake Forest University Full tuition grant and teaching stipend		2022 - 2024		
8.	Provost Merit Scholarship, Wake Forest University Merit-based graduate student award		2022 - 2024		
7.	Outstanding Poster, Mathematical Association of America MathFest Awarded for excellent project presentation and poster design		2022		
6.	Excellence in Applied Mathematics Award, University of Scranton Merit-based department award		2022		
5.	Humanities Fellow, University of Scranton Slattery Center Undergraduate humanities research grant		2021 - 2022		
4.	Presidential Scholarship, University of Scranton Merit-based full-tuition scholarship awarded for exemplary academic achievement		2018 - 2022		
3.	Dean's List, University of Scranton Distinction granted to full-time students with a GPA above 3.50		2018 - 2022		
2.	Central Convergence REU Scholar Undergraduate research grant		2021		
1.	National Hispanic Scholar, Hispanic Scholarship Fund Marit-based distinction and scholarship awarded to university students of Hispanic ber		2018 - 2020		

Merit-based distinction and scholarship awarded to university students of Hispanic heritage

PEER-REVIEWED PUBLICATIONS

1. S.C. Lotspeich, A.E. Mullan, L. D'Agostino McGowan, and S.A. Hepler, "Combining straight-line and map-based distances to investigate the connection between proximity to healthy foods and disease," *Statistics in Medicine*, vol. 44, no. 7, pp. e70054, 2025. doi:10.1002/sim.70054.

Submitted Manuscripts

1. **A.E. Mullan**, P.D.A. Nguyen, S.C. Lotspeich, "Linking Potentially Misclassified Healthy Food Access to Diabetes Prevalence," *Statistics and Public Policy* (under review), 2025+. Preprint: https://arxiv.org/abs/2505.01465

Presentations

Nashville, TN September 2025	5. Guest Lecture: Statistics in Your Own Backyard Day of Discovery, Vanderbilt University	16.
Nashville, TN August 2025	6. Contributed Poster and Speed Talk: Linking Potentially Misclassified Healthy Food Access to Diabetes Prevalence - Joint Statistical Meetings	15.
New Orleans, LA March 2025	4. Contributed Poster: Visualizing Cost Effectiveness Analysis with Second-Generation Acceptability Curves - <i>ENAR Spring Meeting</i>	14.
Ithaca, NY March 2025	3. Guest Lecture: Statistical Ideas You Can Never Unsee PSYCH1130, Cornell University	13.
Scranton, PA March 2025	2. Invited Talk: Misclassification Challenges in Quantifying the Relationship Between Diabetes and Local Access to Healthy Food Department of Mathematics, University of Scranton	12.
Nashville, TN February 2025	. Guest Lecture: From Idea to Conclusion: A Statistical Perspective School for Science and Mathematics at Vanderbilt	11.
Reston, VA October 2024	O. Contributed Poster: Adjusting for covariate misclassification to quantify the relationship between diabetes and local access to healthy food Women in Statistics and Data Science Conference	10.
Virtual October 2024	O. Invited Talk: For Better or For Worse: The First Kiss Effect on Television Ratings International Day of Women in Statistics and Data Science	9.
Virtual September 2024	8. Guest Lecture: Stats can be fun, I swear! PSYCH1130, Cornell University	8.
Baltimore, MD March 2024	7. Contributed Talk: Adjusting for Measurement Error to Quantify the Relationship Between Diabetes and Local Access to Healthy Food - <i>ENAR Spring Meeting</i>	7.
Bellevue, WA October 2023	5. Contributed Poster: Rate This Interruption: Using Interrupted Time Series Techniques to Analyze Popular Television Couples and Episode Ratings Women in Statistics and Data Science Conference	6.
Philadelphia, PA August 2022	6. Contributed Poster: Music Feature Classification: Using Techniques of Machine Learning to Detect Genre - Mathematical Association of America MathFest Conference	5.
Virtual April 2022	4. Contributed Poster: Deal or No Deal: Modeling a Game Show with Utility Theory and Machine Learning - <i>Joint Mathematics Meetings</i>	4.
Virtual August 2021	3. Contributed Poster: Deal or No Deal: Modeling a Game Show with Utility Theory and Machine Learning - <i>SACNAS NDiSTEM Conference</i>	3.

2. **Featured Talk:** Deal or No Deal: Modeling a Game Show with Utility Theory and Machine Learning - *Mount Stuart Mathematics Seminar Series*

Virtual August 2021

1. **Featured Talk:** A Puck Above the Rest: The Effects of New Data on 2020 NHL Draft Decisions Carnegie Mellon Sports Analytics Conference

Virtual October 2020

PANEL DISCUSSIONS

3. Panelist: Graduate Admissions Advice
Electronic Undergraduate Student Research Conference

Virtual November 2024

2. **Moderator:** Statistical Storytelling: Insights Into Effective Presentation Strategies Women in Statistics and Data Science Conference

Reston, VA October 2024

1. **Moderator:** The Art of the Invite: Crafting Successful Invited Session Proposals International Day of Women in Statistics and Data Science Conference

Virtual October 2024

SOFTWARE

4. **Author:** Stats can be fun, I swear! - Shiny App https://ashley-mullan.shinyapps.io/lecture-app

3. **Author:** visegen - R Package https://github.com/ashleymullan/visegen

2. **Contributor:** POSSUM - R Package https://github.com/sarahlotspeich/possum

1. **Contributor:** ThemePark - R Package https://github.com/MatthewBJane/ThemePark

TEACHING

3. Wake Forest University

Teaching Assistant: STA111 - Elementary Probability and Statistics

Supervising Professor: Leo Cella, Ph.D.

Winston-Salem, NC

Aug 2022 - May 2023

2. University of Scranton

Scranton, PA May 2020 – Aug 2020

Teaching Assistant: INTD 290 - Leadership and Civic Responsibility Supervising Professors: Teresa Grettano, Ph.D. and Stephen Whittaker, Ph.D.

1. University of Scranton

Scranton, PA

Sectional Assistant: Performance Music Supervising Instructor: Cheryl Boga Aug 2018 - May 2022

MENTORSHIP

Research Supervision

 $High\ School\ Students$

- Danny Hoberman

Jun 2025-Present

Professional Service and Outreach

Officer Positions and Committees	
- Co-Organizer, JSM Data Art Show	2024-
 Communications Officer/First Year Liaison, Biostatistics Graduate Student Association, Vanderbilt University 	2025-
- Founding Member, Mentorship Committee, ENAR	2025-
- Member, Program Committee, Caucus for Women in Statistics	2025-
 Steering Committee/Social Media Co-Chair, Council for Emerging and New Statisticians (CENS), ENAR 	2024-
- Chair/Member, Social Media Committee, ENAR	2023-
– Member, Graduate Honor Council, Wake Forest University	2022-2024
 President, Pi Mu Epsilon Honor Society, University of Scranton 	2021-2022
 Secretary, Phi Sigma Tau Honor Society, University of Scranton 	2021-2022
 Secretary, Upsilon Pi Epsilon Honor Society, University of Scranton 	2021-2022
 President, Mathematics Club, University of Scranton 	2018-2022
 Vice President, HackScranton University of Scranton 	2019–2021
Volunteer Outreach	
 Judge, ASA K-12 Data Visualization Poster Competition 	2025
 Judge, Undergraduate Statistics Project Competition 	2025
 Mentor, Flash Mentoring, Caucus for Women in Statistics 	$2024,\ 2025$
 Pen Pal, Letters to a Pre-Scientist 	2024 – 2025
 Activity Lead, Florence Nightingale Day, Wake Forest University 	2024
 Proctor, MathCounts, Wake Forest University 	2023
 Dean's Ambassador, College of Arts and Sciences, University of Scranton 	2021 – 2022
 Admission Ambassador, University of Scranton 	2019-2022
 Royal Tie Peer Mentor, University of Scranton 	2021-2022

Conference Activities

- Invited Session Organizer (Frequency)
 - * ENAR Spring Meeting (1), Women in Statistics and Data Science (2), International Day of Women in Statistics and Data Science (2)
- Session Chair (Frequency)
 - * Joint Statistical Meetings (1), International Day of Women in Statistics and Data Science (2), ENAR Spring Meeting (1), Women in Statistics and Data Science (2), Caucus for Women in Statistics Event (1)

SKILLS

- **Programming:** R (advanced), SQL (intermediate), Python (intermediate), LaTeX (intermediate), GitHub (intermediate), Shiny (intermediate), Java (intermediate), Cluster Computing (novice), Julia (novice), Power BI (novice), HTML (novice)
- Applications: Microsoft Suite (advanced), Google Suite (advanced), Bloomberg Terminal (novice)
- Languages: English (native), Spanish (intermediate written and oral proficiency)