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Education

- **University of North Carolina at Chapel Hill** **Spring 2025**
Chapel Hill, NC
 - Ph.D. Statistics and Operations Research
 - Advisors: J.S. (Steve) Marron, Jan Hannig, Zhengwu Zhang
- **Clemson University** **Spring 2020**
Clemson, SC
 - B.S. Mathematics
 - Statistics Emphasis
 - Minor in Philosophy

Professional Experience

- **Assistant Professor (Tenure-Track)** **Summer 2025-Present**
Easton, PA
 - *Lafayette College Department of Mathematics*
- **Graduate Teaching Fellow** **Spring 2022-Spring 2025**
Chapel Hill, NC
 - *University of North Carolina*
- **Graduate Teaching Assistant** **Fall 2020-Fall 2021**
Chapel Hill, NC
 - *University of North Carolina*
- **Summer Research Experience for Undergraduates in Data Analytics and Statistics** **Summer 2019**
Claremont, CA
 - *Harvey Mudd University*
- **Clemson University Undergraduate Researcher in Applied Computational Mathematics** **Winter 2019-Fall 2019**
Clemson, SC
 - *Clemson University Mathematics Department*
- **Summer Research Experience for Undergraduates in Data Analytics and Biology** **Summer 2018**
Greensboro, NC
 - *University of North Carolina A&T*
- **Clemson University Supplemental Instruction Tutor** **Summer 2017-Fall 2020**
Clemson, SC
 - *Clemson University Bridge Program*

Publications

Refereed Articles¹

- 1) **Ackerman, A.** Purposeful Bias: Algorithmic Bias under Ideal Data Conditions. *IEEE Access*. (2026). [doi:10.1109/ACCESS.2026.3703165](https://doi.org/10.1109/ACCESS.2026.3703165)
- 2) **Ackerman A,** Zhang Z, Hannig J, Prothero J, Marron JS. Multifaceted Neuroimaging Data Integration via Analysis of Subspaces. *Psychometrika*. (2025), 1-26. [doi:10.1017/psy.2025.10020](https://doi.org/10.1017/psy.2025.10020)
- 3) **Ackerman, A.** Moral Machine Learning: Teaching a Course at the Intersection of Applied Statistics and Moral Philosophy. *Journal of Statistics and Data Science Education* (2025). <https://doi.org/10.1080/26939169.2025.2485239>²
- 4) Prothero, J.; Jiang, M.; Hannig, J.; Tran-Dinh Q.; **Ackerman A.**; Marron, J.S.; Data integration via analysis of subspaces (DIVAS). *TEST* (2024). <https://doi.org/10.1007/s11749-024-00923-z>
- 5) **Ackerman, A.**; Martin, B.; Tanisha, M.; Edoh, K.; Ward, J.P. High-Dimensional Contact Network Epidemiology. *Epidemiologia* (2023), 4, 286-297. <https://doi.org/10.3390/epidemiologia4030029>

¹ Listed in reverse chronological order

² Associated with first listed award/honor

Teaching

Curriculum Developed

- 1) “Moral Machine Learning”
 - a. Formally listed as STOR 390 *Machine Learning: Ethics and Society*; inaugural semester Spring 2024
 - b. Satisfied the *data, culture, and society* credit of the Data Science minor until Spring 2025
 - c. Permanently listed as STOR 323 starting in the Fall of 2025. This course satisfies the above minor credit and elective credit in the STAN minor.

Courses Taught (Instructor of Record)

Fall 2026

- 1) MATH 161 (Calculus I)
- 2) MATH 161 (Calculus I)
- 3) MATH 336 (Mathematical Statistics)

Spring 2026

- 4) MATH 335 (Probability Theory) 15 students
- 5) MATH 336 (Mathematical Statistics) 19 students

Fall 2025

- 6) MATH 186 (Applied Statistics) 10 students
- 7) MATH 186 (Applied Statistics) 21 students

Spring 2025

- 8) STOR 155 (Introduction to Inference and Regression) 104 students

Fall 2024

- 9) STOR 390 (Moral Machine Learning) 33 students

Summer 2024

- 10) STOR 120 (Foundations of Statistics in Python) 11 students
- 11) STOR 455 (Linear Models) 18 students

Spring 2024

- 12) STOR 390 (Moral Machine Learning) 25 students

Fall 2023

- 13) STOR 155 (Introduction to Inference and Regression) 102 students

Summer 2023

- 14) STOR 113 (Business Calculus and Decision Models) 16 students
- 15) STOR 455 (Linear Models) 22 students

Spring 2023

- 16) STOR 155 (Introduction Inference and Regression) 108 students

Fall 2022

- 17) STOR 320 (Intermediate Statistical Computation in R) 107 students

Summer 2022

- 18) STOR 155 (Introduction to Inference and Regression) 13 students
- 19) STOR 155 (Introduction Inference and Regression) 15 students
- 20) STOR 113 (Business Calculus and Decision Models) 13 students

Spring 2022

- 21) STOR 155 (Introduction Inference and Regression) 47 students

Awards and Honors

- **Graduate Paper Award (Third Prize)** **Fall 2024**
 - *Society for Ethics Across the Curriculum* Clemson, SC
- **Walter Deemer Excellence in Teaching Award** **Fall 2022**
 - *University of North Carolina Department of Statistics and Operations Research* Chapel Hill, NC
- **Pat Croskery National Coach of the Year Award** **Spring 2024**

- *Association for Practical and Professional Ethics Intercollegiate Ethics Bowl* Cincinnati, Ohio
- **Intercollegiate Ethics Bowl National Champion (Coach)** **Spring 2024**
- *Association for Practical and Professional Ethics* Cincinnati, Ohio
- **Palmetto Fellow** **Spring 2016-Fall 2020**
- *South Carolina Commission for Higher Education* Clemson, SC
- **Regional and State Elks Club Scholarship Recipient** **Spring 2016**
- *National Elks Club* Clemson, SC
- **Clemson University Staff Endowed Scholarship Award** **Spring 2018, 2019, 2020**
- *Clemson University* Clemson, SC

Professional Service

- **Lafayette College Intercollegiate Ethics Bowl Head Coach** **Spring 2026-Present**
- *Lafayette College* Easton, PA
- **STOR Data Outreach Program for Students** **Spring 2021-Spring 2024**
- *University of North Carolina Department of Statistics and Operations Research* Chapel Hill, NC
- **University of North Carolina Intercollegiate Ethics Bowl Head Coach** **Fall 2023-Spring 2024**
- *University of North Carolina Parr Center for Ethics* Chapel Hill, NC
- **Sports Analysis and Intelligence Laboratory (SAIL) Graduate Advisor** **Spring 2023-Spring 2025**
- *University of North Carolina Department of Statistics and Operations Research* Chapel Hill, NC
- **Guest Judge National High School Ethics Bowl** **Spring 2022**
- *University of North Carolina NHSEBAcademy* Virtual
- **Graduate Student Mentor** **2023, 2021**
- *University of North Carolina Department of Statistics and Operations Research* Chapel Hill, NC

Presentations

Invited Talks

- **“Data Integration” – UNC EPIC** **Summer 2024**
- *UNC Education Workshop on Intelligence and Connectomics* Chapel Hill, NC
- **“Contact Network Epidemiology” - Clemson University Math 2500** **Fall 2018**
- *Clemson University* Clemson, SC

Conference Presentations

- **“Purposeful Bias: Simulated Examples of Algorithmic Bias under Ideal Data Conditions”** **Summer 2026**
- *Joint Statistical Meeting (American Statistical Association)* Boston, MA
- **“Algorithmic Bias as Distinct from Data Bias”** **Summer 2026**
- *International Statistical Institute 5th Regional Statistical Conference* Valletta, Malta
- **“Moral Machine Learning”** **Fall 2024**
- *Society for Ethics Across the Curriculum (Clemson University)* Clemson, SC
- **“Multifaceted Brain Imaging Data Integration via Analysis of Subspace”** **Fall 2023**
- *STORfest Conference* Chapel Hill, NC
- **“Multifaceted Brain Imaging Data Integration via Analysis of Subspace”** **Summer 2023**
- *International Conference on Brain Informatics (Stevens Institute of Technology)* Hoboken, NJ

Professional Membership

- **University of North Carolina AI Project** **Fall 2024-Spring 2025**

- *University of North Carolina Computer Science and Philosophy Departments*
 - **Parr Center for Ethics Graduate Fellow**
 - *University of North Carolina Parr Center for Ethics*
 - **Alpha Lambda Delta National Honors Society**
 - *Clemson University*
- Chapel Hill, NC
Fall 2020-Fall 2024
Chapel Hill, NC
Spring 2017-Fall 2020
Clemson, SC

Skills

- Formal debate and argumentation
- Software
 - Advanced: Matlab, R, LaTeX
 - Intermediate: Python, Stata, Minitab
 - Basic: C, ZeroMQ