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Education

- **University of North Carolina at Chapel Hill** **Spring 2025**
Chapel Hill, NC
 - Ph.D. Statistics
 - 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

- **Graduate Teaching Fellow** **Spring 2022-Present**
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.**; Zhang, Z.; Hannig, J.; Prothero, J.; Marron, J.S.; Multi-faceted Brain Imaging Data Integration via Analysis of Subspaces. (*submitted Psychometrika*)
- 2) **Ackerman, A.** Moral Machine Learning: Teaching a Course at the Intersection of Applied Statistics and Moral Philosophy. (*under review at Journal of Statistics and Data Science Education*)
- 3) 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>
- 4) **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>

Teaching

Curriculum Developed

- 1) “Moral Machine Learning”
 - a. Formally listed as STOR 390 *Machine Learning: Ethics and Society*; inaugural semester Spring 2024
 - b. Currently satisfying the *data, culture, and society* credit of the Data Science minor

¹ Listed in reverse chronological order

Courses Taught (Instructor of Record)

Fall 2024

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

Summer 2024

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

Spring 2024

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

Fall 2023

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

Summer 2023

- 6) STOR 113 (Business Calculus and Decision Models) 16 students
- 7) STOR 455 (Linear Models) 22 students

Spring 2023

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

Fall 2022

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

Summer 2022

- 10) STOR 155 (Introduction to Inference and Regression) 13 students
- 11) STOR 155 (Introduction Inference and Regression) 15 students
- 12) STOR 113 (Business Calculus and Decision Models) 13 students

Spring 2022

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

Course TA

Fall 2021

- 1) STOR 538 (Instructor of Record: Mario Giacomazzo)

Summer 2021

- 2) STOR 320 (Instructor of Record: Mario Giacomazzo)
- 3) STOR 320 (Instructor of Record: Wonkyung Jang)

Spring 2021

- 4) STOR 538 (Instructor of Record: Mario Giacomazzo)

Fall 2020

- 5) STOR 538 (Instructor of Record: Mario Giacomazzo)

Awards and Honors

- **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

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| • STOR Data Outreach Program for Students | Spring 2021-Present |
| ○ <i>University of North Carolina Department of Statistics and Operations Research</i> | Chapel Hill, NC |
| • University of North Carolina Intercollegiate Ethics Bowl Head Coach | Fall 2023-Present |
| ○ <i>University of North Carolina Parr Center for Ethics</i> | Chapel Hill, NC |
| • Sports Analysis and Intelligence Laboratory (SAIL) Graduate Advisor | Fall 2023-Present |
| ○ <i>University of North Carolina Department of Statistics and Operations Research</i> | Chapel Hill, NC |
| • Guest Judge National High School Ethics Bowl | Spring 2022 |
| ○ <i>University of North Carolina NHSEBAcademy</i> | Virtual |
| • Graduate Student Mentor | 2023, 2021 |
| ○ <i>University of North Carolina Department of Statistics and Operations Research</i> | Chapel Hill, NC |

Presentations

Invited Talks

- | | |
|--|--------------------|
| • “Contact Network Epidemiology” - Clemson University Math 2500 | Fall 2018 |
| ○ <i>Clemson University</i> | Clemson, SC |
| • “Data Integration” – UNC EPIC | Summer 2024 |
| ○ <i>UNC Education Workshop on Intelligence and Connectomics</i> | Chapel Hill, NC |

Conference Presentations

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|--|--------------------|
| • “Multifaceted Brain Imaging Data Integration via Analysis of Subspace” | Summer 2023 |
| ○ <i>International Conference on Brain Informatics (Stevens Institute of Technology)</i> | Hoboken, NJ |
| • “Multifaceted Brain Imaging Data Integration via Analysis of Subspace” | Fall 2023 |
| ○ <i>STORfest Conference</i> | Chapel Hill, NC |
| • “Moral Machine Learning” | Fall 2024 |
| ○ <i>Society for Ethics Across the Curriculum (Clemson University)</i> | Clemson, SC |

Professional Membership

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|---|------------------------------|
| • University of North Carolina AI Project | Fall 2024-Present |
| ○ <i>University of North Carolina Computer Science and Philosophy Departments</i> | Chapel Hill, NC |
| • Parr Center for Ethics Graduate Fellow | Fall 2020-Fall 2024 |
| ○ <i>University of North Carolina Parr Center for Ethics</i> | Chapel Hill, NC |
| • Alpha Lambda Delta National Honors Society | Spring 2017-Fall 2020 |
| ○ <i>Clemson University</i> | Clemson, SC |

Skills

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