

Jimmy Hickey

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Education

- 2019-present Ph.D. Statistics
North Carolina State University
- 2019 - 2020 M.S. Statistics
North Carolina State University
- 2014 - 2018 B.S. Computer Science; B.S. Physics; B.A. Mathematics
Winona State University
Minors: Statistics; Data Science
GPA: 4.0

Professional Experience

- 2020 - present Statistical Sciences Technical Intern
Sandia National Laboratories
- Apply statistical methods in spatial statistics, functional data analysis, and machine learning
 - Support a variety of applications including environmental science, engineering, and national defense
- 2019 - present Graduate Student Researcher
Duke Clinical Research Institute
- Research new methods to improve stroke risk prediction
 - Develop transfer and federated learning methods to address racial disparity in event prediction
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- 2018 - 2019 Genomic Systems Programmer Analyst
Mayo Clinic
- Develop variant annotation, microbiome, and multiple myeloma fusion detection pipelines for researchers and clinicians
 - Create a general unit testing framework for all pipelines
- 2016 - 2021 Peer Tutor
- Tutor a master's student in mathematical statistics
 - Tutor undergraduates in physics, computer science, and math
- 2016 - 2018 Software Developer
Digi International
- Build firmware for microcontrollers and routing devices

Publications

1. **J Hickey**, J P Williams, E C Hector (2022+). Transfer Learning with Uncertainty Quantification: Random Effect Calibration of Source to Target (RECaST). [[arXiv](#)] *In Review*
2. C Hong, M Liu, D M Wojdyla, **J Hickey**, M Pencina, R Henao (2023+). Trans-Balance: Reducing Demographic Disparity for Prediction Models in the Presence of Class Imbalance. *In Review*
3. **J Hickey**, R Henao, M Pencina, D M Wojdyla, M Engelhard (2023+). Improving Event Time Prediction by Learning to Partition the Timeline. *In Review*

Professional Presentations

1. Transfer Learning with Uncertainty Quantification: Random Effect Calibration of Source to Target (RECaST). *Joint Statistical Meeting Oral Presentation*. August 2023
2. Transfer Learning with Uncertainty Quantification: Random Effect Calibration of Source to Target (RECaST). *North Carolina State University Graduate Research Symposium Poster Presentation*. April 2023
3. Trans-Balance: Reducing Demographic Disparity for Prediction Models in the Presence of Class Imbalance. *Duke University Oral Presentation*. April 2023
4. Transfer Learning with Uncertainty Quantification: Random Effect Calibration of Source to Target (RECaST). *ENAR Poster Presentation*. March 2023
5. Improving Event Time Prediction by Learning to Partition the Timeline. *Duke University Oral Presentation*. March 2023
6. Improving Event Time Prediction by Learning to Partition the Timeline. *North Carolina State University Oral Seminar*. September 2022
7. Transfer Learning with Uncertainty Quantification: Random Effect Calibration of Source to Target (RECaST). *Joint Statistical Meeting Poster Presentation*. August 2022

Service

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| 2023 | Session Chair
<i>ENAR</i> |
| 2022-2023 | Student Representative
<i>NCSU Statistics Seminar Committee</i> |
| 2022 | Graduate Mentor
<i>NCSU Summer Institute in Biostatistics</i> |
| 2020-2022 | President
<i>NCSU Statistics Graduate Student Association</i> |

- 2020-2022 Vice President
NCSU Statistics in the Community ([projects and reports](#))
- 2021 Organizer
NCSU Virtual Datathon ([article](#))
- 2021 Organizer
NCSU College of Science Research Symposium
- 2019-2020 Organizer
NCSU Deep Learning Reading Group
- 2017-2018 Vice President
WSU Women in Computer Science Club
- 2017-2018 Student Representative
WSU Dean's Advisory Council
- 2016 - 2018 President
WSU Physics Club

Awards

- 2021 Paige Plagge Graduate Award for Citizenship
NCSU Statistics Department
- 2018 1st Place
Midwest Undergraduate Data Analytics Competition
- 2017 Best College Overall
ASA Police Data Challenge ([link to competition](#))
- 2017 Top 5 Undergraduate
MinneAnalytics Data Analytics Competition