Jimmy Hickey

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|  | **Education** |
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| 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 |

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|  | **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 |
| 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 |

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|  | **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](https://arxiv.org/abs/2211.16557)] *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* |

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|  | **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 |

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|  | **Service** |
| 2023 | Session Chair  *ENAR* |
| 2022-2023 | Student Representative  *NCSU Statistics Seminar Committee* |
| 2022 | Graduate Mentor  *NCSU Summer Institute in Biostatistics* |
| 2020-2022 | President  *NCSU Statistics Graduate Student Association* |
| 2020-2022 | Vice President  *NCSU Statistics in the Community (*[*projects and reports*](https://github.com/NCSU-STATCOM)*)* |
| 2021 | Organizer  *NCSU Virtual Datathon (*[*article*](https://sciences.ncsu.edu/news/virtual-datathon-draws-more-than-100-students-from-universities-across-n-c/)*)* |
| 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* |
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|  | **Awards and Honors** |
| 2021 | Paige Plagge Graduate Award for Citizenship  *NCSU Statistics Department* |
| 2018 | Outstanding Graduate in Computer Science  *WSU* |
| 2018 | Outstanding Graduate in Physics  *WSU* |
| 2018 | Outstanding Graduate in Mathematics  *WSU* |
| 2018 | Outstanding Student Leader Nominee  *WSU* |
| 2018 | 1st Place  *Midwest Undergraduate Data Analytics Competition* |
| 2017 | Best College Overall  *ASA Police Data Challenge (*[*link to competition*](https://thisisstatistics.org/police-data-challenge-congratulations-to-our-winners/)*)* |
| 2017 | Top 5 Undergraduate  *MinneAnalytics Data Analytics Competition* |