

RUIYANG WU

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https://ywwry66.github.io/personal_page

EDUCATION

- | | |
|---|------------------------|
| University of Arizona , Tucson, AZ | Aug 2016-Aug 2022 |
| Ph.D. in Mathematics | |
| Advisor: Ning Hao | |
|
University of Arizona , Tucson, AZ |
Aug 2020-Dec 2020 |
| M.S. in Statistics and Data Science | |
| Advisor: Ning Hao | |
|
Peking University , Beijing, China |
Sept 2012-Jul 2016 |
| B.S. in Mathematics and Applied Mathematics | |

EMPLOYMENT

- | | |
|---|------------------|
| New York University , New York, NY | Jun 2022-Present |
| Postdoctoral Associate in Biostatistics | |
| Advisor: Yang Feng | |

RESEARCH INTERESTS

- Theory and Methods: High-dimensional Statistics, Statistical Machine Learning (Discriminant Analysis, Transfer Learning, Decision Tree Learning, Change-point Detection).
- Applications: Electronic Health Record Data, Neuroimaging Data.

PUBLICATIONS

Published

1. Yifan He, **Ruiyang Wu**, Yong Zhou and Yang Feng (2023). DDAC-SpAM: A Distributed Algorithm for Fitting High-dimensional Sparse Additive Models with Feature Division and Decorrelation. *Journal of the American Statistical Association*. DOI: [10.1080/01621459.2023.2225743](https://doi.org/10.1080/01621459.2023.2225743)
2. **Ruiyang Wu** and Ning Hao (2022). Quadratic Discriminant Analysis by Projection. *Journal of Multivariate Analysis*, 190, 104987. DOI: [10.1016/j.jmva.2022.104987](https://doi.org/10.1016/j.jmva.2022.104987)

Manuscripts

1. **Ruiyang Wu** and Ning Hao (2023+). Dimension Reduction for Quadratic Discriminant Analysis via Supervised Principal Component Analysis. *Manuscript available upon request*.
2. Wenbo Ouyang, **Ruiyang Wu**, Ning Hao and Hao Helen Zhang (2023+). Dynamic Supervised

Principal Component Analysis for Classification. *Submitted.*

Software

- **QDAP:** Quadratic Discriminant Analysis by Projection. Available on [GitHub](#).
- **QDAPCA:** Dimension Reduction for Quadratic Discriminant Analysis via Supervised Principal Component Analysis. Available on [GitHub](#).

TEACHING

Instructor at University of Arizona

- Math 112, College Algebra Spring 2022
- Math 112, College Algebra Fall 2021
- PhD Qualifying Exam Review, Real Analysis Summer 2020

Teaching Assistant at University of Arizona

- Math 107, Exploring and Understanding Data Fall 2017 & Spring 2018
- Math 112, College Algebra Spring 2017
- Math 310, Applied Linear Algebra Fall 2016

SERVICES

- Referee Service: Computational Statistics & Data Analysis.

PRESENTATIONS

- “Quadratic Discriminant Analysis by Projection”, TRIPODS 2nd Southwest Summer Conference, Oracle, AZ, May 2019
- “Quadratic Discriminant Analysis by Projection”, ICSA 2018 Applied Statistics Symposium, New Brunswick, NJ, Jun 2018

AWARDS

- Galileo Circle Scholarship¹, University of Arizona Apr 2021
- Data Science Academy Fellowship, University of Arizona Nov 2020
- Galileo Circle Scholarship, University of Arizona Apr 2019

SKILLS

- Computer Programming: C, R, MATLAB, Emacs Lisp
- Languages: English, Chinese
- Interests: Violin, Chess, Hiking, Contributing to Open Source

¹ The Galileo Circle awards scholarships to exceptional undergraduate and graduate students at College of Science, University of Arizona.