

RUIYANG WU

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EDUCATION

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

EMPLOYMENT

Baruch College, CUNY , New York, NY Assistant Professor, Paul H. Chook Department of Information Systems and Statistics	Aug 2024–Present
New York University , New York, NY Postdoctoral Associate, Department of Biostatistics Advisor: Yang Feng	Jun 2022–May 2024

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. Ouyang, W., **Wu, R.**, Hao, N. and Zhang, H. H. (2025). Dynamic Supervised Principal Component Analysis for Classification. *Journal of Computational and Graphical Statistics*, to appear. DOI: [10.1080/10618600.2025.2452935](https://doi.org/10.1080/10618600.2025.2452935)
2. He, Y.¹, **Wu, R.**¹, Zhou, Y. and Feng, Y. (2023). DDAC-SpAM: A Distributed Algorithm for Fitting High-dimensional Sparse Additive Models with Feature Division and Decorrelation. *Journal of the American Statistical Association*, 119(547), 1933-1944. DOI: [10.1080/01621459.2023.2225743](https://doi.org/10.1080/01621459.2023.2225743)
3. **Wu, R.** and Hao, N. (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)

¹ Co-first authors.

Manuscripts

1. **Wu, R.** and Hao, N. (2025+). Dimension Reduction for Quadratic Discriminant Analysis via Supervised Principal Component Analysis. *Manuscript available upon request.*

Software

- **DSPCA:** Dynamic Supervised Principal Component Analysis for Classification. Available on [GitHub](#).
- **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 Baruch College, CUNY

- STA 2000, Business Statistics I Spring 2025
- STA 3920, Data Mining for Business Analytics Fall 2024 & Spring 2025

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; Electronic Journal of Statistics; Journal of Computational and Graphical Statistics; Journal of the American Statistical Association; Statistics: A Journal of Theoretical and Applied Statistics.

PRESENTATIONS

- “Quadratic Discriminant Analysis by Projection”, 2022 ICSA China Conference, Virtual/Xi’an, China, July 2022 (Invited)
- “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 Scholarship², University of Arizona Apr 2021
- Data Science Academy Fellowship, University of Arizona Nov 2020
- Galileo Circle Scholarship², University of Arizona Apr 2019

SKILLS

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

² The Galileo Circle awards scholarships to exceptional students at College of Science, University of Arizona.