# RUIYANG WU

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## EDUCATION

**University of Arizona,** Tucson, AZ — Aug 2022
Ph.D. in Mathematics
Advisor: Ning Hao

**University of Arizona,** Tucson, AZ — Dec 2020
M.S. in Statistics and Data Science
Advisor: Ning Hao

**Peking University,** Beijing, China — Jul 2016
B.S. in Mathematics and Applied Mathematics

## EMPLOYMENT

**Baruch College, CUNY,** New York, NY — Aug 2024–Present
Assistant Professor, Paul H. Chook Department of Information Systems and Statistics

**New York University,** New York, NY — Jun 2022–May 2024
Postdoctoral Associate, Department of 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. Ouyang, W., **Wu, R.**, Hao, N. and Zhang, H. H. (2025). Dynamic Supervised Principal Component Analysis for Classification. *Journal of Computational and Graphical Statistics*, 34(4), 1446–1455. DOI: 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
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

[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 & Fall 2025
- STA 3920, Data Mining for Business Analytics — Fall 2024 & Spring 2025
- STA 3950, Data Mining and Statistical Learning — Fall 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 Scholarship[2], University of Arizona — Apr 2021
- Data Science Academy Fellowship, University of Arizona — Nov 2020
- Galileo Circle Scholarship[2], 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.