

RUIYANG WU

Department of Mathematics, University of Arizona
617 N Santa Rita Ave, Tucson, AZ 85721
(520) 312-0382 ruiyangwu@math.arizona.edu
https://ywwry66.github.io/personal_page

EDUCATION

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- University of Arizona**, Tucson, AZ Aug 2016-Present
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

RESEARCH INTERESTS

High-dimensional statistics, machine learning

PUBLICATIONS

Submitted

Ruiyang Wu and Ning Hao (2022). Quadratic Discriminant Analysis by Projection. *Journal of Multivariate Analysis*, 190, 104987.

In Progress

Ruiyang Wu and Ning Hao (2021+). Dimension Reduction for Quadratic Discriminant Analysis via Supervised Principal Component Analysis.

Ruiyang Wu, Ning Hao, Yue S. Niu and Han Xiao (2021+). Omnibus tests for multiple change-point models.

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
- Real Analysis Qualifying Exam Review Sessions 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

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: Mandarin, English
- Interests: violin, chess, painting

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