RUIYANG WU

Department of Mathematics, University of Arizona
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https://ywwry66.github.io/personal_page

EDUCATION

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-Jun 2016
B.S. in Mathematics

RESEARCH INTERESTS

High-dimensional statistics, machine learning

PUBLICATIONS

Submitted

Ruiyang Wu and Ning Hao (2021+). Quadratic Discriminant Analysis by Projection. *arXiv preprint arXiv:2108.09005*.

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.

Softwares

- **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 — 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 Scholarship[1], 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.