

Chao Gu

2032 Kings Gate Ln,
Mount Pleasant, SC 29466

Email: cgu@citadel.edu
Phone: 614-695-3618

Education

Bowling Green State University, Bowling Green, OH

- Ph.D. in Statistics Aug 2021
Dissertation: Advancing Bechhofer's Ranking Procedures to High-dimensional Variable Selection
Advisor: Prof. John Chen
- M.A. in Applied Statistics May 2017
- M.A. in Financial Economics May 2017

Nanjing University of Finance and Economics, Nanjing, China

- B.S. in Financial Engineering June 2014

Research Interests

Bayesian Inference; Statistical Learning;
High-dimensional Inference and Variable Selection

Publication

- **Gu, Chao.** Advancing Bechhofer's Ranking Procedures to High-dimensional Variable Selection, 2021. Bowling Green State University, Doctoral dissertation. OhioLINK Electronic Theses and Dissertations Center, http://rave.ohiolink.edu/etdc/view?acc_num=bgsu1626653022254095.
- **Gu, Chao,** Ratnasingam, S. Real-Time Change Point Detection in Linear Models Using the Ranking Selection Procedure. Submitted

Working Papers

- Variable Selection for Skew Normal Distributions based on Ranking Procedures (with Ratnasingam, S.)
- Adjusted Ranking Approach for heteroscedasticity (with Chen, John)

Presentations

- Introduction to Variable Selection in Linear Model
The Citadel, SC Mar 2022
- Advancing Bechhofer's Ranking Procedures to High-dimensional Variable Selection
Bowling Green, OH June 2021
- Bayesian Analysis for Surveys with Sensitive Questions
Bowling Green, OH Dec 2019
- High-dimensional Linear and with Bootstrapping the De-sparsified Lasso
Bowling Green, OH Nov 2019
- Multiple Binary Response Classification (Tree-based Method)
Bowling Green, OH Aug 2019
- Introduction to Applied Longitudinal Data Analysis
Bowling Green, OH Aug 2018

Working Experience

- **Graduate Statistician** 2017 - 2018
Center for Business Analytics, BGSU, OH
– provide analytic consulting services to internal departments & external companies
- **Consultant Data Analyst** 2014 - 2015
Department of Property, Horizon Research Consultancy Group, Shanghai, China
– Conduct analytic reports to external companies about potential investments

Teaching Experience

Assistant Professor

Department of Mathematical Sciences, The Citadel, SC

- Assistant Professor of Statistics 2021 - Present
 - Teach statistics courses including service and major courses

Graduate Instructor

Department of Mathematics and Statistics, BGSU, OH

- Instructor of Statistics 2018 - 2021
 - MATH 1150 - Introduction to Statistics
- Instructor of Math Emporium 2016 - 2017
 - MATH 90X - Pre Algebra (2 Sections)
 - MATH 95X - Beginning Algebra (2 Sections)
 - MATH 1210 - Intermediate Algebra (2 Sections)
 - MATH 1220 - Accelerated Algebra (2 Sections)
- Assistant of MATH 1150 Program 2018 - 2021
 - Develop teaching materials, such as supplementary notes, worksheets and chapter activities (online mode and on-campus mode)

Graduate Teaching Associate

Allen W. and Carol M. Schmidthorst College of Business, BGSU, OH

- Grading & Recitation Instructor 2015 - 2016
 - LEGS 3010 - Legal Studies
 - ECON 3030 - Intermediate Macroeconomic Theory

Awards & Scholarships

- J. Robert & G. Overman Award
College of Arts and Sciences, BGSU, OH 2020 - 2021
- Graduate Scholarship - Statistics Graduate Program
Department of Mathematics and Statistics, BGSU, OH 2016 - 2021
- Outstanding Graduate Student Teaching Awards Nomination
Department of Mathematics and Statistics, BGSU, OH 2018 - 2019
- Graduate Scholarship - Economics Graduate Program
Allen W. and Carol M. Schmidthorst College of Business, BGSU, OH 2015 - 2016
- Quality Development Plan of University Student (Top 5%) - Finance Undergraduate Program
College for Business, Nanjing University of Finance and Economics, Nanjing, China 2013 - 2014
- Rolling Scholarship (Top 10%) - Finance Undergraduate Program
College for Business, Nanjing University of Finance and Economics, Nanjing, China 2012 - 2013

Services

- Committee member - Library/Books
Swain Family of Science and Mathematics, The Citadel, SC 2021 - Present
- Committee member - Math Problem of the Week
Swain Family of Science and Mathematics, The Citadel, SC 2021 - Present
- Committee member - Student Awards
Swain Family of Science and Mathematics, The Citadel, SC 2021 - Present
- Judge - Pumpkin Carving Contest at STEM-FRESH dinner for SSM freshmen
Swain Family of Science and Mathematics, The Citadel, SC 2020 - 2021
- Volunteer - the Cross Cultural Conversation Connection
International Student Services, BGSU, OH 2015 - 2016
- Clerk - Minister of Defense College-based student Union Associations
Nanjing University of Finance and Economics, Nanjing, China 2012 - 2014
- Volunteer - The centennial celebration of Qixia Temple
Nanjing, China 2011 - 2012
- Office Staff - Student Consultative Committee of Student Union
Nanjing University of Finance and Economics, Nanjing, China 2010 - 2012

Professional Memberships

- American Statistical Association 2020 - Present
- Mathematical Association of America 2016 - Present
- American Mathematical Society 2016 - Present

Technical Skills

- Statistical Software: R, Python, SAS, MINITAB, SPSS, Matlab
- Application: \LaTeX , WebEx, Zoom