Sijia Liao

Graduate Student

Statistics and Data Science Program,

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Education

Graduate (PhD)

Aug. 2020 - Current   Statistics and Data Science Program, University of Arizona

Research Interest: Nonparametric Statistics Method

Advisor: Hao Helen Zhang

Graduate (MS)

Aug. 2017 - Jul. 2020   School of Mathematics, Sun Yat-Sen University

Master of Science in Probability and Mathematical Statistics

Advisor: Zhengan Yao

Undergraduate (BS)

Aug. 2013 - Jul. 2017   School of Mathematics, Sun Yat-Sen University

Bachelor of Science in Mathematics and Applied Mathematics

Teaching Experience

Fall 2021   **Teaching Assistant for Math 112, University of Arizona**

Fall 2018   Teaching Assistant for Mathematical Experiments and Mathematical Software, Sun Yet-sen University

Spring 2018   Subject Counsellor in Counselling and Development Centre, Sun Yet-sen University

Research Experience

Past Project

Parallel Algorithms for Large-Sized Graphs (Dec. 2018 - Jul. 2020)

- Develop parallel algorithms to analyze the properties of large-sized graphs, including shortest path, connected components, graph partition and PageRank.

- Responsible for using mathematical knowledges to analysis and prove the feasibility and performance of the developed parallel algorithms of connected components and PageRank.

Graduate Thesis

Research on an Exemplar-based Image Inpainting Method (Sep. 2019 - May 2020)

- Developed an exemplar-based image inpainting method, used MATLAB.

Undergraduate Thesis

Mathematical methods in Image Processing (Sep. 2016 - May 2017)

- A review, but also studied and improved a partial differential equation based method in image inpainting, used MATLAB.

Award and Honor

October 2019   University Excellent Graduate Student Award & First-Class Scholarship, Sun Yet-sen University
October 2018   University Excellent Graduate Student Award & First-Class Scholarship, Sun Yet-sen University
October 2017   University Excellent Graduate Student Award & First-Class Scholarship, Sun Yet-sen University
December 2016   University Excellent Student Award & Sun Yat-sen Scholarship, Sun Yet-sen University