Xinyu Guo

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EDUCATION

Washington University in St. Louis — St. Louis, MO
Bachelor, Mathematics Major & Computer Science Minor, GPA 3.86/4.0 — May 2020
- Dean's List
- Teaching Assistant for CSE417T Introduction to Machine Learning

East China University of Science and Technology — Shanghai, China
Mechanical Engineering Major, GPA 3.7/4.0 — Sep 2016 - June 2018
- China National Scholarship, approximately approve 9 recipients from 10,000 applicants
- Highest Academical Scholarship of Each China University of Science and Technology

University of California in Berkeley, Summer Institute — Berkeley, CA — June – August 2017

TECHNICAL SKILLS

- Computer languages: R, Java, HTML, CSS, Java Script, Latex, MATLAB, Python, C, MySQL
- Computer programs: proficient in SolidWorks, Auto CAD, Microsoft Office, Wind, Amazon AWS
- Other: Web Design, Collecting data from APIs, Photography

EXPERIENCE AND RESEARCH

Researcher, Bootstrap Method Research — St. Louis, MO
Advisor: Dr. Todd Kuffner, Washington University in St. Louis — May 2019 – Present
- Independently investigate the properties of bootstrap method in R and visualizing its resampling process
- Evaluate a new method to smooth data density curve and focusing on finding an optimal bandwidth

Data Processor, Modeling the Spread of Amyloid in Patients with Alzheimer Disease — St. Louis, MO
Advisor: Dr. John E. McCarthy, Washington University in St. Louis — May 2019 – Present
- Model and analyze data collected from 138 Alzheimer Disease patients in R and MATLAB, and try to predict the development of Alzheimer Disease through the spread of amyloid with respect to PiB
- Develop an animation to simulate the change of amyloid with respect to PiB in brain image

Registrant, Workshop on Higher-Order Asymptotics and Post-Selection Inference — St. Louis, MO — August 17 - 19 2019
- Attended in 37 presentations of the latest development in post-selection inference and discussions of how tools from higher-order asymptotics can both elucidate important properties of post-selection inference procedures

Data Analyst Intern, Shanxi Securities Research Department — Shanxi, China
Mentor: Rui Guo, Shanxi Securities Research Department — June 20 - July 20 2019
- Analyzed one month's data from Wind Database to assess current securities market conditions
- Worked with lab team to predicted the trend of the security market and found a data analysis procedure to provide more comprehensive reports

LEADERSHIP AND COMMUNITY INVOLVEMENT

Founder, China EYE Public Welfare — Shanxi, China — June 2016 – Present
- Founded an NGO with more than 50 people and raised a donation online while holding charity book fairs in schools and parks
- Went to middle schools in impoverished areas and donated 100 brand new desks with many other teaching equipment

Co-founder, NXP Intelligent Car Research Team — Shanghai, China — Oct 2017 - Feb 2018
- Created an intelligent car cruise system with team based on image processing with HCS12
- Optimized image processing algorithms for more sensitive feedback and reduce each runtime by 2ms on average

HONORS AND CERTIFICATIONS

- Summer Undergraduate Research Award (Summer 2019)
- Presentation in Undergraduate Research Symposium (November, 2019)
- Math tutor of Washington University in St. Louis Arts & Science school (August, 2019)
- First prize in the 7th Advanced Graphing Technology and Innovation Design Competition (June 2017)
- Outstanding Student Leaders of East China University of Science and Technology (June 2018)
- Professional Certification of Auto CAD Graphing
- Patent—Multifunctional Shared Printer [201821510016.7]; Patent—Portable Shared Printer [201821494888.9]

Personal Website: https://thewhey-brian.github.io/personalweb/