Xinyu Guo

EDUCATION	
ohns Hopkins University	Baltimore, MD
Aaster, Biostatistics, Current	Current
Vashington University in St. Louis Bachelor, Mathematics Major & Computer Science Minor, GPA 3.89/4.0	St. Louis, MO August 2018 - May 2020
Cum Laude	August 2018 - May 2020
 Dean's List 	
Cast China University of Science and Technology	Shanghai, China
Iechanical Engineering Major , GPA 3.7/4.0	Sep 2016 - June 2018
China National Scholarship	
Highest Academical Scholarship of Each China University of Science and Technology	Berkeley, CA
Iniversity of California in Berkeley, Summer Institute	June – August 2017
TECHNICAL SKILLS	
• Computer languages: R, Python, Java, HTML, CSS, Java Script, Latex, MATLAB, MySQL	
• Computer programs: Cluster Computing, SolidWorks, Auto CAD, Microsoft Office, Wind, Ama	zon AWS
Other: Web Design, Collecting data from APIs, Photography	
RESEARCH AND EXPERIENCE	
ab Member, Statistical Genetics Studies	Baltimore, MD
dvisor: Dr. Nilanjan Chatterjee	Oct 2020 – Present
• Multi-tissue integrates analysis with Transcriptome-wide association studies (TWAS) results	
Research Assistant, Statistical Genomics Studies	Baltimore, MD
dvisor: Dr. Hongkai Ji & Dr. Eneda Toska, Johns Hopkins University	Feb 2021 – Present
• Analyzing RNA-seq data: Align and map sequence reads to the genome; Implement differential analysis; Implement GSEA analysis	
• Analyzing ChIP-seq/ATAC-seq data: Align and map sequence reads; Call and annotate peaks;	
Run motif analysis	Baltimore, MD
Research Assistant, Alzheimer's Disease Biomarkers	August 2020 – Present
 Advisor: Dr. Chenguang Wang & Dr. Zheyu Wang, Johns Hopkins University Creating a R package to collect Alzheimer's Disease biomarkers form BIOCARD, NACC, and 	Tugust 2020 Tresent
ADNI databases, and create an analysis dataset	
 Analyzing and visualizing the analysis dataset 	
Researcher Assistant, Respiratory Failure Prediction	St. Louis, MO
dvisor: Dr. Andrew Michelson, Washington University in St. Louis, Institute for Informatics	June 2020 – Dec 2020
• Worked with lab teams to clean dataset of COVID-19 patients and create a cohort table with 207 features and vital signs	
• Modeled with Lasso and Logistic regression to predict respiratory failure probability of COVID-	
19 tested patients	
Researcher, Bootstrap Method Research	St. Louis, MO
dvisor: Dr. Todd Kuffner, Washington University in St. Louis	Max 2010 Max 2020
 Independently investigated the properties of bootstrap method in R and visualizing its resampling process 	$\frac{1}{5}$
• Evaluated a new method to smooth data density curve and focusing on finding an optimal bandwidth	
Registrant, Workshop on Higher-Order Asymptotics and Post-Selection Inference	St. Louis, MO
• Attended in 37 presentations of the latest development in post-selection inference and discussion	s August 17 - 19 2019
of how tools from higher-order asymptotics can both elucidate important properties of post- selection inference procedures	Mugust 17 19 2019
LEADERSHIP AND COMMUNITY INVOLVEMENTS	
Founder, China EYE Public Welfare	Shanxi, China
• Founded an NGO with more than 50 people and raised a donation online while holding charity	June 2016 – Present
 book fairs in schools and parks Went to middle schools in impoverished areas and donated 100 brand new desks with many other 	r

HONORS AND CERTIFICATIONS

- Poster Presentation in MSSISS at University of Michigan (February 2020)
- Summer Undergraduate Research Award (Summer 2019)
- Poster 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: <u>https://www.brian-guo.com</u> GitHub: <u>https://github.com/Thewhey-Brian</u>