Wanyu Huang

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EDUCATION

Johns Hopkins University, Baltimore, MD — Aug. 2018 – June 2023 (anticipated)

Ph.D. Candidate in Systems Engineering, **GPA** 3.98/4.00

M.S. in Applied Mathematics and Statistics, **GPA** 3.95/4.00

Honor: Gordon L. and Beatrice C. Bowles Fellowship, $86K, 2018

Iowa State University, Ames, IA — Aug. 2016 – May 2018

M.S. in Industrial Engineering, **GPA** 3.71/4.00

Honor: Full Scholarship; Best Graduate Poster in ISU IMSE Research Symposium 2017; Best Paper Finalist in CSS 2017

Shanghai Jiao Tong University, Shanghai, China — Sep. 2012 – June 2016

B.Sc. in Automation, School of Electronic Information and Electrical Engineering

EXPERIENCE

Public Health Researcher, Johns Hopkins University, Baltimore, MD — Aug. 2020 – Present

- Led 8 collaborative research projects with 10+ graduate students/postdocs from 6 multi-disciplinary research groups
- Facilitated participatory meetings to enhance model development with medical professionals and policymakers
- Synthesized complex quantitative and qualitative data from patients, healthcare providers, and clinical sites
- Applied mathematical methods to reveal trends and capture decision-making processes for health intervention delivery
- Utilized analytical tools to identify barriers and facilitators for sustainable healthcare intervention implementations
- Generated actionable insights to advance implementation strategies and policies significantly
- Discovered effects of maternal toxic co-exposures on child obesity using Bayesian Kernel Machine Regression
- Identified distinct child BMI trajectories by clustering algorithms; Analyzed their causes and effects using statistical tools

Public Health Research Assistant, Johns Hopkins University, Baltimore, MD — Aug. 2018 – Aug. 2020

- Adopted machine learning methods to improve early risk assessment of Autism in a prospective birth cohort
- Employed EWAS and ML methods to reduce the dimensionality of high-dimensional DNA methylation data (>860K)
- Developed a general procedure for applying systems science methods in implementation research after systematic reviews

Research Assistant, Iowa State University, Ames, IA — Sep. 2016 – June 2018

- Implemented a decision-making system for Des Moines to design policies for promoting residential energy innovations
- Created computationally efficient methods to test the resilience and robustness of strategic transmission expansion plans

Program Manager Intern, Yitu (top 10 AI company in China), Shanghai, China — Nov. 2015 – Jan. 2016

- Conducted qualitative and quantitative market research for market entry of AI-powered Intelligent City
- Coordinated with clients and cross-functional teams, like R & D, to refine the AI identity authentication product roadmap
- Boosted deployment of Smart Banking solutions to over 1,500 China Merchants Bank branches

Team Leader, Huawei Sales Elite Challenge, Shenzhen, China — Aug. 2015

- Teamed up with 4 students to form the Shanghai representative team and won the Top 8 in the nationwide competition from 5000+ participants, including case competitions and in-store sales contests
- Achieved a daily sales record of 94K USD for Shenzhen Huawei flagship stores
- Established a 16K USD order with a Shanghai research center using exceptional communication skills

Vice President, Sports Club, Shanghai Jiao Tong University, Shanghai, China — May 2013 – May 2014

- Organized 10+ department-level sports events and leveraged social media campaigns to engage 1000+ participants
- Collaborated with school administration, sponsors, and class board members; recruited and trained new student members

ADDITIONAL INFORMATION

Publications: 11 publications, 4 first-author and 7 co-author peer-reviewed articles

Relevant Coursework: Mathematical Biology, Computational Molecular Medicine, Applied Statistics and Data Analysis, Bayesian Statistics, Time Series Analysis, Engineering Management Theory, Advanced Environmental Economics

Skills: Python, R, MATLAB, SQL, HTML, Tableau