

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
 - Organized weekly brainstorming sessions with team members to enhance model designs and strategies
 - Facilitated participatory meetings to engage medical professionals and policymakers in model iteration and improvement
 - Synthesized complex quantitative and qualitative longitudinal data from patients, healthcare providers, and clinical sites; used statistical tools and interactive visualizations to reveal trends and decision-making processes of intervention delivery
 - Utilized analytical methods to identify barriers and facilitators for sustainable and cost-effective healthcare intervention implementations under various reimbursement policies; generated insights to significantly advance healthcare strategies
 - Explored maternal toxic co-exposures and child obesity and demonstrated the protective effect of maternal folate intake
 - Built predictive tools for adolescent obesity at early developmental windows and pinpointed early-life risk factors
- Public Health Research Assistant, Johns Hopkins University**, Baltimore, MD Aug. 2018 – Aug. 2020
 - Employed machine learning methods to improve early risk assessment of Autism in a prospective birth cohort, identifying infants with over 6 folds of increased risk compared to the low-risk group using only 8 predictors collected at birth
 - 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
 - Developed 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
 - Facilitated 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 over 10 department-level sports events and leveraged social media campaigns to engage 1000+ participants
 - Liaised with the 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, Probability and Statistics, Data Mining, Bayesian Statistics, Time Series Analysis, Engineering Management Theory
Skills: Python, R, MATLAB, SQL, HTML, Tableau