

# MEIJIA (MAGGIE) WANG

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## EDUCATION

**Arizona State University, Tempe, USA**

*Ph.D. of Statistics*

Aug. 2019 – Aug 2023

**GPA: 4.0/4.0**

**Arizona State University, Tempe, USA**

*M.S. in Statistics*

Aug. 2017 - May 2019

**GPA: 4.0/4.0**

**Southern University of Science and Technology, Shenzhen, China**

*B.S in Financial Mathematics*

Sept. 2013 - June 2017

**GPA: 3.5/4.0**

## RESEARCH AREA

My research focuses on Bayesian machine learning, Causal Inference, and tree-based ensemble methods. Meanwhile, I am one of the major contributors of the XBART and LongBet algorithm packages.

## PUBLICATIONS

**M. Wang**, J. He, P. Hahn, “*Local Gaussian process extrapolation for BART models with applications to causal inference*”, (under review), 2022.

**M. Wang**, J. He, S. Yarlov, J. Murray, P. Hahn, “*Accelerated Bayesian Additive Regression Trees for Fast Multi-Class Classification*”, (work in progress), 2021.

**M. Wang**, J. Kang, N. Cao, Y. Xia, W. Fan, H. Tong, “*Graph Ranking Auditing: Problem Definition and Fast Solutions*”, IEEE Transactions on Knowledge and Data Engineering (TKDE), 2019.

J. Kang, **M. Wang**, N. Cao, Y. Xia, W. Fan, H. Tong, “*AURORA: Auditing PageRank on Large Graph*”, International Conference on Big Data (ICBD), 2018.

## EXPERIENCES

**Data Scientist Intern**

*Google*

May 2022 – Aug 2022

*Ignacio Martinez*

- Developed a model LongBet to estimate time-varying heterogeneous causal effects on longitudinal data in observational study which can provide valuable insights for decision makers.
- Implemented an R package LongBet with accurate estimation and fast computational algorithm.

**Software Engineer Intern**

*Meta*

May 2021 – Aug 2021

*Christopher Whelan*

- Conducted experiments on multiple encoding and allocating methods for ads in order to help retrieve ads conversion information under Apple’s new privacy policy.
- Built data pipelines using SQL to reduce conversion signal loss with multiple ad encoding strategies.

**Teaching Assistant**

*School of SoMSSs, ASU*

June 2019 – Present

*Prof. P. Richard Hahn*

- Developed key models and functions of the XBART package including: Multinomial Classification model, Metropolis-Hastings update of trees, Dirichlet sampling for variable selection weights, Prediction Inference with Gaussian Process, Extrapolation for Causal Forest.
- Lab instructor for MAT 343: Applied Linear Algebra

**Research Assistant**

*School of CIDSE, ASU*

May 2018 – May 2019

*Prof. Hanghang Tong*

- Implemented a graph mining algorithm to find influential graph elements that affect graph ranking results.
- Modified mathematical model for the graph ranking auditing algorithm.
- Experimented on state-of-the-art graph ranking algorithms, such as PageRank and HITS.

## SKILLS

**Languages and Software:** Python; R; Matlab; SQL; C++; Ubuntu.

**Other ML Algorithms:** Tree ensembles, Causal Inferences, Statistical Inference, Regression Models, Graph Ranking Algorithms, Multivariate Analysis and *etc.*