MENGJIE WANG

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EDUCATION

University of California San Diego *Sep. 2020 - May 2026 Expected*
PhD candidate in Management Sciences and Quantitative Methods

University of Illinois at Urbana Champaign *Aug. 2016 - May 2018*
Master of Science in Statistics

PROFESSIONAL EXPERIENCE

Amazon.com Services *Economist Intern* *June 2024 - Sep. 2024*

· Researched the Augmented Synthetic Control (ASC) method for geo-based marketing experiments

· Adapted and integrated the ASC estimation into team's library, and tested its performance against Synthetic Difference-in-Differences for campaign impact assessment

Amazon.com Services *Economist Intern* *June 2023 - Sep. 2023*

· Collaborated with an Amazon Scholar to conduct research on estimating sequential treatment effects without a natural control group, leveraging Synthetic Controls as the foundation

· Designed, tested, and implemented the Incremental Causal Effects Estimation to assess the impacts of stacked changes in third-party seller fees

Bayer Crop Science *Data Scientist - contracted with Integrated Resources* *Apr. 2019 - Mar. 2020*

Applied machine learning algorithms and statistical models to optimize the breeding testing pipelines, such as assessing the testing efficiency, treatment effects, and advancement selections

· **Repeated Checks Spatial Adjustment**

  – Designed experiments using repeated commercial lines to address in-field spatial variation issues and utilized spatial interpolation methods to adjust the genetics evaluations

  – Represented fields by tensor and researched on improving Tensor-to-Tensor Regression performance to predict the future spatial pattern

· **Ordinal Categorical Data Quality Control System**

  – Extended Robust Logistic Regression into ordinal categorical scenarios using cumulative logits

  – Developed and deployed an automatic outlier detection pipeline for data quality control

FT Optimize *Data Scientist* *Oct. 2018 - Feb. 2019*

· Improved the bidding efficiency by developing algorithms and deploying machine learning pipelines

· Set up A/B tests and created a dashboard to track the performance of strategies and campaigns

RESEARCH PROJECT

The Impact of Sponsorship and Emotional Attachment on Live Streamers' Viewership

· Conducted research on estimating sponsorship effects on livestreaming viewership using high-frequency data collected from Twitch.tv.

· Identified emotional attachment as a key moderating factor mitigating sponsorship-related viewer loss, and provided actionable insights for influencer marketing strategies.

TECHNICAL SKILLS

Causal Inference, Machine Learning, Deep Learning, Python, R, SQL, SAS, JAVA, HTML, Git