

Cheng Wu

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Econometrics & Quantitative Economics

Minor in Data Science and Statistics

Aug 2021 - May 2025

GPA:3.85/4.00 (Dean's List)

SKILLS: R, Python, Excel, Machine Learning, Deep Learning, Visualization, Sklearn, Pandas, Numpy, SQL, Apache

PROFESSIONAL EXPERIENCE

Donglai Natural BioTech Co. Ltd.

June 2024 - September 2024

Marketing Strategies - Data Scientist Intern

Remote

- Boosted efficiency by 10%, streamlining inventory with parallel processing, customer profiling with K-Means, DBSCAN
- Raised 12% order completion with price optimization, trend analysis via regression, forecasting, price elasticity modeling
- Reduced 40% process time with cache, schedule via parallel computing, optimized I/O pipeline with *Dask*, *Apache Spark*
- Delivered actionable customer insights via real-time dashboards, data & ML integration with *Plotly*, *Dash*, *WebSockets*

ZheShang Securities Co. Ltd.

May 2023 - September 2023

Institutional Finance Department - Data Scientist Intern

Hangzhou, China

- Predicted 25% better investments for 20+ private equity deals with Random Forest, Regression, Multivariate statistics
- Increased 15% cross-departmental data consistency, decision-making via auto-reporting, visuals with *Excel*, *VBA*, *ETL*
- Accelerated data-driven decisions via auto real-time pipelines with financial feed, low-latency dashboards with *Apache Airflow*, *SQL*
- Enhanced private equity deal success via web scraping, sentiment analysis, topic modeling with *Scrapy*, *NLP*, *Python*, *R*

Innovative Bloom Foundation

May 2019 - June 2024

Strategic Initiatives, and Community Empowerment - Lead Coordinator

Shanghai, China

- Raised 20% success for 200+ remote students with predictive monitoring, interventions, curriculum, 'at-risk' clustering
- Boosted 30% artisan income, education, health in underserved communities via e-commerce platform with data analytics
- Assessed finance – health impact with applied multivariate analysis on health access, food security, mental health data

RESEARCH EXPERIENCE

Research Group - Professor Elizabeth T. Powers, UIUC

January 2024 - July 2024

Research Assistant

Champaign, IL

- Drove policy via isolating employment, income, child welfare effects by econometrics on childcare grants with DiD, IV
- Informed policy using linear regression with feature engineering for childcare grant impact on employment, income
- Enhanced public engagement with economic policy via reports & real-time, dynamic stakeholder dashboards on policy simulations, impact of childcare grants on employment trends, income distribution, child welfare with *R Shiny*
- Ensured data accuracy via standardization, auto-validation etc., by integrating national surveys, administration data in *R*

Educational Inequality and Intergenerational Poverty, UIUC

January 2023 - Present

Researcher

Champaign, IL

- Analyzed educational inequality – economic mobility impact with regression, PSM, with socio-economic controls
- Assessed intergenerational effects of education access via engineering inequality metrics, economic mobility indicators (funding disparities, teacher-student ratios) by integrating national education and economic mobility datasets
- Generated funding policy, support program insights with dashboards, auto-reports for geographic educational disparities, economic mobility trends

Critical Medicines Access in Public Health Emergencies: Failures and Solutions

April 2023 - Dec 2023

Researcher

Champaign, IL

- Evaluated preventive health policies' impact on disease rates, mortality, healthcare costs
- Isolated policy effect across demographics for targeted interventions using quasi-experimental design
- Ensured data readiness by engineering policy exposure scores, health metrics by preprocessing WHO, CDC datasets
- Optimized intervention by identifying high-risk population, predicting long-term health with XGBoost, LSTM, clustering
- Created real-time cost-effectiveness, health access, resource insights with public health outcome *Plotly* dashboards, report