

Curriculum Vitae

Qingze Zhu

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EDUCATION

University of Wisconsin-Madison Bachelor of Science (B.S.) in Statistics	01/2024–12/2025
Wuhan Polytechnic Associate Degree (A.D.) in Business English	10/2020–06/2023
MITx Certificate: Computer Science and Programming Using Python; MITx Micromasters: Supply Chain Management	
University of Amsterdam Coursera Certificate: Classical Sociological Theory; Research Methods in Sociology	

RESEARCH EXPERIENCE

Faculty-Supervised Research: Computational and Interactive Visualization Tools for Statistical Instruction	09/2025–12/2025
University of Wisconsin–Madison, Madison, WI	Supervisor: Prof. Bo Yang
<ul style="list-style-type: none">Built interactive course tools and use handouts with JavaScript/Python, including an animated derivation from discrete random walk to Brownian motion; developed a probability knowledge map with hover highlights and click-through links to notes.Standardized R Markdown/Quarto outputs: added chunk options, code folding, and show/hide controls to improve HTML readability and reproducibility.Developed a Brownian-motion–based classroom model to illustrate income volatility for smallholder farmers under different intermediary and price regimes, using visualizations to prompt discussion about rural risk and inequality.	
Independent Research: Processing Location and Value Capture in Cross-Border Agricultural Supply Chains	05/2025–09/2025
University of Wisconsin–Madison, Madison, WI	Supervisor: Prof. Sinan Tas
<ul style="list-style-type: none">Examined how processing-location decisions shape smallholder participation in cross-border agricultural value chains, using China→US konjac trade as a case.Built an arrival-rate-conserving network-flow model to formalize trade-offs between “fresh → processed” conversion at origin vs. destination under different logistics and loss structures.Found that processing near origin ports can reduce total landed cost by 52.8% (\$20,119→\$9,492) and effective loss by 62.4%; derived simple rules whose recommendations agree with the optimizer in 96% of cases.Produced a working paper and fully reproducible code/data package shared with partner cooperatives to support their strategy discussions on near-origin processing and farmer income stability.	
Data Analysis Project: Agricultural Development Patterns & Farmers' Income	07/2025–09/2025
University of Wisconsin–Madison, Madison, WI	
<ul style="list-style-type: none">Assembled a multi-decade panel dataset (30 years) for 266 World Bank countries for farmers' incomes; harmonized series and handled missing values for cross-country comparison.Built an interactive dashboard with world maps, time-series plots, and dumbbell charts comparing top vs. bottom countries and ratios of farmer income to national averages.Analyzed relationships between mechanization, value added, and farmer incomes, showing cases where higher aggregate value or mechanization does not translate into proportional gains for farm households.	
Fieldwork Lead: Rural Livelihoods & Direct-Sales Pilot	07/2021–08/2022
Majiaba Village, Zigui County, Hubei, China	
<i>Year 1:</i>	
<ul style="list-style-type: none">Conducted mixed-methods research on income drivers among ~200 citrus-farming households (stratified survey + semi-structured interviews); produced anonymized datasets and interview transcripts.Identified dependence on single sales channels and long intermediary chains as key constraints on bar-	

gaining power, price realization, and income stability.

- Interviewed Supply & Marketing Cooperative staff and township officials to compile a 30-year oral history of marketing-channel changes and to assess shifting forms of state and cooperative support.

Year 2:

- Designed and implemented the “Orange Warms the Countryside” WeChat Mini Program to pilot direct sales and basic vendor-managed inventory for local households.
- Introduced ABC supplier tiering and simple stock-management practices; over six months, reduced spoilage by 25% and helped 10 farmers achieve a collective income increase of ¥100,000.

WORKING PAPERS & PREPRINTS

- Zhu, Qingze. 2025. “Processing Location for Cross-Border Perishables with Arrival-Rate-Conserving Conversion: Thresholds, Strategy Frontiers, and a China-US Case.” [SSRN working paper](#)
- Zhu, Qingze. 2025. “Multi-Echelon Inventory Optimization Framework with ABC-XYZ Classification: Evidence from Simulation-Based Validation.” [SSRN working paper](#)

HONORS AND AWARDS

First Prize, 8th OCALE National Cross-border E-commerce Competition	11/2022
First Prize (Nationwide), 12th Practice for Operational Competence in International Business	10/2022
First Prize, 3rd National New Retailing Foreign Trade Skills Competition	05/2022

PROFESSIONAL EXPERIENCE

Consultant 12/2022–11/2023

Zhejiang Yangtian Company Co., Ltd.

- Managed data and inventory systems for a multi-store e-commerce operation (20 online stores; ~2.1k orders/day avg, 5k+ peak; ~4.2k SKUs; 3 DCs; 5 external plants).
- Analyzed how platform commission structures, promotion and rating rules, and logistics constraints shaped pricing, product assortment, and service levels for small and medium suppliers.
- Led ERP-based standardization of SKU coding, units, inventory aging, and in-transit tracking, enabling differentiated service tiers and replenishment policies across key vs. long-tail products.
- Built dashboards and anomaly alerts for stockouts, long-tail demand, and negative inventory, improving inventory-record accuracy to 97.5%, OTIF to 98%, cutting stockouts by ~45%, and reducing Days of Inventory by 30 days (¥4.5–5.2M working capital released).

Regional Lead (China) 12/2022–06/2023

SOAR International

- Collected and vetted international volunteer projects; assessed processes and feasibility.
- Delivered campus talks across nearby provinces; recruited and interviewed volunteers.
- Operated Xiaohong Shu and WeChat Official Account; produced analyses and stories on volunteer experiences.

COMMUNITY ENGAGEMENT

Program Initiator & Coordinator: Pediatric ICU Volunteer Partnership 02/2021–06/2022

Wuhan Children’s Hospital

- Established a point-to-point partnership between campus volunteers and ICU units; organized weekly selection/training and weekend bedside activities (games/companionship).
- Held supportive conversations with parents of children under treatment (e.g., leukemia/brain tumors); compiled anonymized needs lists and connected families with charities/social services.

Volunteer Teacher: Ayi Potato Teaching Support Project 09/2018–06/2020

Liangshan Autonomous Region

- Taught Chinese across three grades (two classes); coordinated day-to-day learning and student well-being.
- Conducted monthly home visits; recorded study conditions, parental attitudes, and how family income/structure affected schooling.
- Counseled parents reluctant to keep children in school; compiled hardship cases and submitted to local authorities for assistance.