

Curriculum Vitae/Resume

Qingze Zhu

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EDUCATION

University of Wisconsin-Madison 01/2024–12/2025
Bachelor of Science (B.S.) in Statistics

Wuhan Polytechnic University 10/2020–06/2023
Associate Degree (A.D.) in Business English

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: Teaching Technology & Reproducible Research 09/2025–12/2025
University of Wisconsin–Madison, Madison, WI Supervisor: Prof. Bo Yang

- 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: Agricultural Supply Chain & Processing 05/2025–09/2025
University of Wisconsin–Madison, Madison, WI Supervisor: Prof. Sinan Tas

- 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 $\approx 96\%$ 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

- 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

Year 1:

- 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 bargaining 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 $\approx 25\%$ and helped 10 farmers achieve a collective income increase of $\approx \text{¥}100,000$.

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 no. 5408150. doi.org/10.2139/ssrn.5408150
- Zhu, Qingze. 2025. “Multi-Echelon Inventory Optimization Framework with ABC-XYZ Classification: Evidence from Simulation-Based Validation.” SSRN working paper no. 5407306. doi.org/10.2139/ssrn.5407306

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; $\sim 2.1\text{k}$ orders/day avg, $5\text{k}+$ peak; $\sim 4.2\text{k}$ 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 $\sim 45\%$, and reducing Days of Inventory by 30 days ($\approx \text{¥}4.5\text{--}5.2\text{M}$ 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.