

Sirui Zou

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EDUCATION

Southwestern University of Finance and Economics <i>Bachelor of Economics</i> • Academics & Quant: GPA: 3.9/4.0 GRE Quant: 170/170 GMAT FE: 655 (Top 9% Globally, Pre-enrollment) • Core Courses: Macroeconomics (A+), Python (A+), Advanced Math (A), Linear Algebra (A), Probability & Statistics (A-) • Scholarships: Academic Scholarship ('24, '25), Innovation & Entrepreneurship Scholarship ('24)	Sep 2024 – Jun 2028 (Expected) Chengdu, China
University of California, Berkeley <i>Visiting Student: BGA Program Focus: Economics & Computational Social Science</i> • Core Courses: Econometrics (A), Computational Models of Cognition (A+), Challenge Lab (A+)	Jan 2026 – May 2026 Berkeley, CA, USA
Peking University (National School of Development) <i>Summer School: Quantitative Finance</i> • Grade: A+ (Top 10/150). Focused on stochastic analysis and quantitative pricing models.	Jul 2025 – Aug 2025 Beijing, China

PUBLICATIONS

PersonaForge: Psychology-Grounded Dual-Process Architecture for Personality-Consistent Role-Playing Agents • Jizhou Tong*, Sirui Zou* <i>*equal contribution</i> aclanthology.org/2026.findings-acl.386 • Method: Designed a three-layer personality architecture (Big Five + Defense Mechanisms + Dynamic State) with a selective dual-process generation mechanism, addressing LLM “persona drift” in long-text role-playing simulations. • Results: Reduced persona drift by 75% (6.3% vs. 24.8% baseline) across 50-turn dialogues on 88 characters; selective activation achieves 96% of full-system performance with only 13.4% token overhead. Validated on RoleBench with 73.2% pairwise win-rate.	Findings of ACL 2026
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ACADEMIC & RESEARCH EXPERIENCE

Generative Market Simulation Supervised by Kehang Zhu (Harvard); advised by Prof. John Horton (MIT Sloan) • Research Question: When LLM agents trade in a realistic prediction market with unrestricted action spaces and no hard-coded strategies, which strategies come to dominate (including any beyond known human repertoires), how do prices form, and how does wealth concentrate over time? • Method: Built the testbed, a binary prediction-market engine (collateral-backed YES/NO minting/merging, order-book matching) that LLM agents drive through the same tool interface a human trader would use, with a live dashboard and full replay logs. Core design principle: the researcher designs the environment (information, institutions, incentives) but never scripts agent behavior. Validated that a bare LLM trades rationally before running strategy experiments.	Apr 2026 – Present
Decoding China’s Consumption Policy Project Lead (Advisors: Prof. Hong Zou, Dean of School of Economics, & Dr. Han Xiao, SWUFE) • Research Question: How can China’s consumption-promotion policies (which instruments, for which target groups and goods, at what intensity) be measured systematically and reproducibly across large volumes of heterogeneous, often implicitly-worded government documents? • Method: Leading a two-stage text-as-data pipeline on 5M+ government documents (mainly 2006–2024): (1) a fine-tuned BERT classifier, benchmarked against keyword search and LLMs, to screen consumption-promotion policies; (2) LLM-based structured extraction of policy attributes (instrument type, intensity, target population, goods category, intergovernmental citation), with manual gold-standard annotation, cross-model consistency checks, and hallucination controls. Building China’s first independently cross-verified national consumption-policy database for downstream city-panel analysis.	Jan 2026 – Present

Basic Public Service Equalization and Common Prosperity

Jan 2026 – May 2026

Research Assistant (Advisor: Prof. Wei Fan, SWUFE) · Sichuan Province-Level Research Grant

- **Research Question:** Does inequality in basic public services (BPS) worsen urban-rural income inequality, and which dimensions matter most?
- **Method:** Constructed a city-year panel (280 cities, 2012–2024) with Theil index and BPS Gini coefficients; estimated two-way fixed effects models across six BPS dimensions (education, healthcare, social security, infrastructure, culture, ecology).
- **Conclusion:** BPS inequality significantly exacerbates urban-rural income inequality across all six dimensions, supporting an “inequality → inequality” mechanism; ecological and educational BPS show the largest effects.

TECHNICAL & ENGINEERING PROJECTS

ScrollWeaver & Soulverse: Multi-Agent Social Simulation Engine Team Lead

Oct 2025 – Dec 2025

- **Project Overview:** Designed and developed a multi-agent social simulation engine that breathes life into static texts (novels, worldbuilding documents, lore collections), transforming them into interactive, co-creatable, and exportable living worlds. (Global 3rd Prize, 2025 Soul AI Agent Competition)
- **Technical Implementation:** Built a LangChain-based Orchestrator-Performer architecture with FastAPI/WebSockets for real-time streaming and D3.js for dynamic maps. Empowered multi-LLM agents (GPT, Claude) with autonomous logic and social deduction via RAG, ChromaDB/SQLite memory, a 3-layer personality model, and a dual-process cognitive architecture.

Magic Brush: AI-Powered Drawing Tutor for Children Private Developer

Nov 2025 – Dec 2025

- Competed in the Doubao × Intel “Make Ideas Real” AI App Creation Challenge; awarded **Bronze Prize (Top 30)**. Built an AI-powered step-by-step sketch drawing assistant designed to engage children independently through interactive guidance and real-time feedback.
- **Stack:** Doubao App Generation platform; multi-turn interactive dialogue flow with progressive drawing instruction and child-friendly UX design.

Course Prism: Course Evaluation & Retrieval Community Private Developer

Mar 2025 – Jun 2025

- **Development:** Independently developed SWUFE’s open-source course evaluation platform. Built interactive UI via Next.js/React and implemented RESTful APIs/unified auth using Django REST, PostgreSQL, and Redis.
- **Deployment:** Configured Docker Compose, Nginx reverse proxy, and Huey async task queues for one-click containerized deployment, automated data backup, and rapid recovery.

SKILLS & INTERESTS

Tools: Python (PyTorch, Pandas, NumPy), SQL, Stata, LaTeX, Linux, Docker, Git

Interests: Computational Social Science, Economics, NLP, LLM Agents

Languages: English (IELTS 7.0), Mandarin (Native)