TAO SHEN

📍 Shenzhen, China | ✉ shentao.mr@gmail.com | 🌐 shentao-coder.github.io

EDUCATION

Shenzhen MSU-BIT University — Shenzhen, China
Bachelor of Economics in International Economics and Trade — *Aug. 2021 – Jun. 2025*
- **GPA:** 3.74/4.00
- **Honors:** University Entrance Scholarship (Top-tier Freshmen), Third Prize in GMC China Region.
- **Quantitative Coursework:** Calculus I (88), Linear Algebra (84), Data Structures & Algorithms (81), Machine Learning in Finance (95), Financial Markets (96), Econometrics (91).

Macquarie University — Sydney, Australia
Macquarie Business Training Program — *Jan. 2024*
- Completed intensive business training curriculum jointly organized by SMBU and Macquarie University College.
- Conducted field research on local enterprises facilitated by the Australia Fujian Chamber of Commerce.

RESEARCH EXPERIENCE

Impact of Digital RMB (e-CNY) on RMB Internationalization | *Senior Thesis* — Jan. 2025 – Present
- Constructed a comprehensive monthly dataset (20122025) combining macroeconomic indicators and e-CNY policy milestones to analyze currency internationalization dynamics.
- Developed an **Autoregressive Distributed Lag (ARDL)** bounds testing approach and an **Error Correction Model (ECM)** utilizing **Stata** and **Python** for time-series analysis.
- Found that official e-CNY announcements have a significant positive structural effect on RMB internationalization in the long run, offering empirical evidence for "quality over quantity" policy strategies.

Mechanism Design of Carbon Allowance Auctions | *Junior Thesis* — Jan. 2024 – Jun. 2024
- Conducted a game-theoretic comparative analysis of four major auction formats (Ascending, Sealed-bid, etc.) within the mechanism design framework focusing on allocative efficiency.
- Demonstrated through theoretical modeling that the **Uniform-Price Sealed-Bid Auction** is the optimal format to minimize market manipulation and demand reduction behaviors.
- Proposed theoretical improvements involving reserve prices to enhance carbon market stability.

PROFESSIONAL EXPERIENCE

CITIC Futures Co., Ltd. — Shenzhen, China
Intern, International Business Center — *Feb. 2025 – May 2025*
- Leveraged **Wind Terminal** and Excel VBA to screen 2,000+ potential clients with hedging needs.
- Created institutional pitch decks to visualize complex market data, adhering to CLSA standards.

China CITIC Bank International — Shenzhen, China
Intern, Operation Management — *Nov. 2024 – Dec. 2024*
- Authored a competitive analysis report on financial derivatives of 10+ peer banks to support product strategy.
- Ensured 100% accuracy in daily financial data reporting to the People's Bank of China (PBOC).

Agricultural Bank of China — Shenzhen, China
Intern, Customer Manager Assistant — *Jul. 2024 – Aug. 2024*
- Assisted in **Anti-Money Laundering (AML)** screening procedures and promoted wealth management products.
- Managed daily customer operations for 200+ clients and maintained client relationships with zero complaints.

SKILLS

Technical Skills: Stata, Python (Pandas, NumPy), LaTeX, EViews, SQL, Wind Terminal, Bloomberg, CSMAR.

Languages: English (Professional Proficiency), Chinese (Native).