Haozheng Chen
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EDUCATION

University of Sydney   Aug 2022 – Mar 2024
Master of Economic Analysis (Pre-PhD Track)
- Coursework included Advanced Microeconomics, Game Theory, Mechanism Design, and Mathematical Modeling
- Completed a one-year research project focusing on **information cascades, strategic voting, and group decision-making models**

University of Sydney   Feb 2021 – May 2022
Master of Economics
- Core course GPA: **Distinction / High Distinction**

Miami University   Aug 2016 – May 2020
Bachelor of Arts, Major: Economics
- Game Theory ranked **Top 5 in class**
- Final-year Economics GPA: **3.93 / 4.0**
- **Dean's List (Top 20%)**, May 2020

WORK EXPERIENCE

Morningstar (Shenzhen) Ltd. Shenzhen, China   Dec 2021 – Feb 2022
Fund Data Research Analyst (Intern)
- Collaborated with **data analysis, IT, and securities data teams** to maintain global fund databases
- Conducted **fund product data validation, data entry, and database updates** to ensure accuracy and completeness
- Communicated regularly with **international brokers** to obtain updated financial product information
- Reviewed brokerage availability data and corrected inconsistencies in the fund product database
- Developed an analytical understanding of **how financial datasets support downstream quantitative analysis and modeling**

SZAMA (Shenzhen Asset Management Association). Shenzhen, China   Jan 2021 – Aug 2022
Secretary Department Intern
- Assisted in drafting **industry research reports, policy analysis, and private equity compliance inspection reports**
- Participated in **on-site compliance visits** to financial institutions in Shenzhen
- Conducted **policy and industry trend analysis** to support financial sector reports
- Organized and curated financial news content for the association's official website
- Supported coordination of **industry seminars and professional events**

RESEARCH & ANALYTICAL PROJECT EXPERIENCE

University of Sydney. Sydney, Australia
Research Assistant (Supervised by Jiemai Wu)   Feb 2023 – Feb 2025
Project: Information Cascades in Group Decision-Making
Developed quantitative models and simulations to study how decision rules affect collective learning in sequential group decisions.

Key Contributions:
- **Quantitative Modeling**
  Built sequential **Bayesian belief updating models** to analyze information transmission in group decisions
- **Algorithm Design**
  Implemented **equilibrium-finding algorithms in Mathematica** to compute optimal strategies under different voting rules
- **Simulation & Experimentation**
  Conducted large-scale simulations to evaluate model outcomes under different probabilistic environments
- **Mechanism / Policy Design**
  Analyzed how different voting mechanisms (e.g., majority rule vs unanimity rule) affect decision accuracy and social welfare
- **Strategic Analysis**
  Studied decision externalities and the efficiency of institutional rules in information aggregation

Key Outcome:
- Identified that **information-revealing voting rules significantly improve the accuracy of decisions made by later groups**

TECHNICAL SKILLS

Quantitative & Analytical Skills
- Quantitative modeling and decision models

- Bayesian updating and information transmission models
- Econometrics: OLS, Fixed Effects, 2SLS, Difference-in-Differences
- Probability simulation and numerical optimization
- Strategic analysis and mechanism design frameworks

Programming & Tools
- **Mathematica (Advanced)** – symbolic derivation, equilibrium solving, simulation
- **Stata (Proficient)** – econometric analysis
- **Python (Colab)** – data analysis
- **R (Basic)** – statistical analysis
- Microsoft Excel, PowerPoint, Word