Xuanang (Shawn) Chen

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Education

University of Cambridge Cambridgeshire, UK

Final Year Mathematics Student at St John's College *Oct. 2020 – Present*

- **Grades:** 1:1 in first year, 2:1 in second year
- **Society:** President of the Adams Society 2021-2022
- Baylis Scholarship awarded
- **Activities:** Participant of the Cambridge Summer Programme in Applied Reasoning, involved in the Effective Altruism groups.

Experience

Jane Street London,UK

Quant Trading Intern *July 2022 - Sept. 2022*

- **Trading classes** on equity, ETF, options, crypto and ADR
- **Mock Trading:** Having 10 more mocks featuring strategies and real markets. In two week-long mocks we built automated PTS by Python and Excel.
- **Projects:** First project was on the equity desk, I analysed the stocks that have changed their exchange listings. Second project was to analyze the trading activities in the trade-at-last period after the closing auction in the European market.

Research

University of Cambridge Cambridgeshire,UK

Summer Research Project *June 2021 - Sept. 2021*

- Mathematics research on Graph Theory and Number Theory, in particular the size of induced subgraph of bipartite graphs, supervised by Dr. Aled Walker. Paper posted on arxiv here.
- Given a bipartite graph with m edges, we proved that the size of induced subgraph has $\Omega(m/(\log m)^{10})$ edges, optimizing the results from Narayanan, Sahasrabudhe and Tomon. We introduce the concept of *C-bipartite-Ramsey*, proving that in non-sub-polynomial cases, these graphs have multiplication tables of $\Omega(e(G))$ in size.

Selected Awards

- American Invitational Mathematics Examination (AIME) 14/15
- SSS in Cambridge Admission STEP examinations
- Cambridge Trust Scholarship

Additional Skills and Interests

- **Coding Languages:** fluent in Python, especially Pandas, NumPy and sklearn. Medium in R and Matlab
- Actively playing **Poker** cash games with decent pnl
- Passionate Pianist
- Amateur Photographer
- Sports: Tennis, Golf, Football