Jack Mulqueeney

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Education

University of Western Australia, BPhil (Hons.) in Mathematics and Economics · Mar 2018 – Dec 2021
- GPA: 7.0/7.0. WAM: 92
- **Honours Thesis:** The Strong, the Weak, and the Robust: Inference and Estimation in Weakly Identified Panel Binary Dependent Variable Models. Supervised by: Dr. Leandro Magnusson.
- **Relevant coursework:** Econometric theory, time series, micro and macro theory, statistical learning, stochastic processes, real analysis,measure theory, dynamical systems, ODEs and PDEs, optimisation techniques (optimal control and nonlinear programming)

University of Pennsylvania, University exchange program · Aug 2019 – Dec 2019
- GPA: 3.83/4
- **Relevant coursework:** Econometrics, microeconomics, probability theory

Experience

Research Professional, Becker-Friedman Institute at the University of Chicago · May 2025 – Present

Senior Analyst, Reserve Bank of Australia (RBA) · Feb 2022 – March 2025
- **Macroeconomic Modelling**: developed and used the RBA's main macroeconometric model for monetary policy analysis and forecasting.
- **Banknote Analysis and Policy**: conducted a survey experiment to estimate households' willingness to pay for Central Bank Digital Currency (CBDC) and cash access.

Summer Research Associate, Australian Institute of Mathematical Sciences · Nov 2020 - Jan 2021
- Used Kramers-Moyal expansion to model various deterministic systems in Python

Research/Publications

Mulqueeney, J., Ballantyne, A., and Hambur, J. (2025). *Monetary Policy Transmission through the Lens of the RBA's Models*. RBA Bulletin.

Fairweather, Z., Fiebig, D., Gorajek, A., Guttmann, R., Ma, J. and **Mulqueeney, J**. (2024). *Valuing Safety and Privacy in Retail Central Bank Digital Currency*. RBA Research Discussion Paper, 2024-02.

Livermore, T., **Mulqueeney, J**., Nguyen, T. and Watson, B. (2023). *The Evolution of Consumer Payments in Australia: Results from the 2022 Consumer Payments Survey*. RBA Research Discussion Paper, 2023-08.

Mulqueeney, J. and Livermore, T. (2023). *Cash Use and Attitudes in Australia*. RBA Bulletin.

Mulqueeney, J. (2021). *Stochastic Modelling of Deterministic Systems*. Australian Mathematical Sciences Institute Report.

Additional Experience And Awards

Economic Society of Australia (WA Branch) Honours Prize for best B.Phil Student in Economics: Awarded to the student with the best overall mark in Economics Honours

Tutor (2021): Economic and Business Statistics. First year statistics course and introduction to R programming.

Australian Mathematical Sciences Institute Summer Research Scholar (2020): Independent research into stochastic modelling of non-linear dynamical systems. Modelled various systems (simple SDEs to electrical circuits) using stochastic methods using Python.

Research Assistant (2019): Research assistant for project involving mathematics of networks/graphs using Python.