

# Jack Mulqueeney

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Quantitative economist and pre-doctoral researcher at the University of Chicago, specialising in applied econometrics and causal inference, with three years of research experience at the Reserve Bank of Australia.

## Education

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**University of Western Australia**, Bachelor of Philosophy (First Class Honours) in Mathematics and Economics Mar 2018 – Dec 2021

- GPA: 7.0/7.0. WAM: 92
- **Honours Thesis:** Econometric inference in weakly identified models. Supervised by: Dr. Leandro Magnusson.
- **Relevant coursework:** Econometrics, time series, statistical learning, stochastic processes, optimisation techniques (optimal control and nonlinear programming), microeconomics

**University of Pennsylvania**, University exchange program Aug 2019 – Dec 2019

- GPA: 3.83/4
- **Relevant coursework:** Econometrics, microeconomics, probability theory

## Experience

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

**Supervisor:** Prof. Evan Rose

**Empirical:** Cleaned and managed cross-country individual-level longitudinal datasets. Analysed industry welfare premia and cyclicity of job quality (rank-order logit/probit, event studies, errors-in-variables, instrumental variables).

- **Methods:** Monte Carlo simulations of statistical properties of variance estimators and Empirical Bayes methods, using parallel processing and high-performance computer clusters. Statistical power simulations of proposed large-scale experimental design.

**Senior Analyst**, Reserve Bank of Australia (RBA) Feb 2022 – March 2025

- **Macroeconomic Modelling:** Developed and maintained the RBA's main macroeconomic model, MARTIN, for monetary policy analysis and forecasting. Analysis informed quarterly forecasts and monetary policy board decisions. Helped lead analysis and drafting for Assistant Governor speech at Australian Financial Review Banking Summit.
- **Banknote Analysis and Policy:** Conducted a discrete choice experiment in a nationally representative survey to estimate households' willingness to pay for Central Bank Digital Currency (CBDC) and cash access. Contributed policy analysis on the redesign of banknote distribution arrangements.

**Summer Research Associate**, Australian Institute of Mathematical Sciences

Nov 2020 - Jan 2021

- Used Kramers-Moyal expansion to model various deterministic systems in Python

## Research

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**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., Guttman, R., Ma, J. and **Mulqueeney, J.** (2024). *Valuing Safety and Privacy in Retail Central Bank Digital Currency*. RBA Research Discussion Paper, 2024-02. Forthcoming *International Journal of Central Banking*.

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

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**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

**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.

## Skills

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R, Python (pandas, NumPy, matplotlib, statsmodels), SQL, Stata, LaTeX, parallel processing, high-performance computing (PBS scripting).