

# Yunjia Zou

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## Brief Summary

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Master's student in Economics at the University of Sydney, with a strong interest in empirical research and quantitative analysis. Familiar with econometric modelling, regression diagnostics, and data cleaning using Stata, and able to produce well-structured academic outputs using LaTeX. I am currently exploring various research areas and would love the opportunity to assist in ongoing projects and learn through collaboration.

## Education

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**The University of Sydney** *Master of Economics* Jul 2024 – Jun 2026

- Specialist in Econometrics, Financial Econometrics with Annual Average Mark: 75.9/100
- Main Courses Selected: Econometric Applications, Microeconomic Analysis, Macroeconomic Analysis

**Chongqing Technology and Business University** *Bachelor of Accounting* Sep 2019 – Jul 2023

- GPA: 3.6/4.0

## Experience

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### ECMT6002 Econometric Application Project – Analysis Using Microdata from Terza (2002), 25T1

- Designed and executed a comprehensive empirical study assessing the impact of alcohol abuse on employment outcomes using micro-level data from Terza, J.V. (2002, *Journal of Applied Econometrics*).
- Developed and estimated a linear probability model, carefully selecting controls (demographics, health status, macro indicators) to isolate the treatment effect.
- Applied advanced econometric techniques including Wald tests, Likelihood Ratio, and Lagrange Multiplier tests to assess individual and joint significance of explanatory variables.
- Conducted robust model diagnostics: identified heteroskedasticity through the White and LM tests; implemented White's robust standard errors to correct for inference bias.
- Addressed potential endogeneity via instrumental variable analysis, using parental alcohol history as instruments for alcohol abuse status.
- Produced a polished research report in L<sup>A</sup>T<sub>E</sub>X, integrating regression outputs from Stata with publication-ready formatting and policy-relevant interpretation.

### FINC5001 Assignment: Equity Valuation & Risk Analysis – *Evolution Mining Ltd(EVN)*, 25T1

- Conducted a 5-year valuation of EVN stock using real trading data from Yahoo Finance and ASX200 index.
- Estimated beta (0.90) via covariance method and annualized excess return (34.87%) over 1,257 trading days.
- Calculated daily log returns and annualized standard deviation (volatility: 0.39–0.52) to assess risk.
- Applied CAPM to derive discount rate (8.19%) and Three-Stage DDM for intrinsic value estimation.
- Identified market overvaluation (market price AUD 7.99); issued a “Sell” recommendation.
- Compared traditional financial modeling with AI-generated outputs (ChatGPT), highlighting gaps in data transparency and valuation rigor.
- Applied key finance tools: CAPM, DCF, Three-Stage DDM, beta analysis, volatility modeling, and sensitivity analysis.

## Skills

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- **State:** Skilled in running regression models (OLS, IV, LPM etc), conducting diagnostic tests (White, LM), applying robust standard errors, and managing micro-level survey data for empirical analysis.
- **LaTeX** Proficient in producing professional research reports, formatting equations and regression tables, and integrating Stata outputs using esttab for academic presentation.