Jeremy Vollen

Curriculum Vitae

✉ *j.vollen@unsw.edu.au*
🖥 *j-vollen.github.io*

Education

2021-Present	**PhD in Computer Science (intended thesis submission: June 2025)**. Department of Computer Science, University of New South Wales
2019-2020	**Graduate-level Coursework**, *Economics and Computation; Advanced Topics in EC.* Department of Informatics, University of Zürich
2013-2016	**BA in Computational & Applied Mathematics (magna cum laude)**. Department of Computational Applied Mathematics & Operations Research, Rice University

Research Interests

Algorithm design, algorithmic game theory, social choice, mechanism design.

Publications

📄	2023	**Best-of-Both-Worlds Fairness in Committee Voting**, *Haris Aziz, Xinhang Lu, Mashbat Suzuki, Jeremy Vollen, Toby Walsh, Working Paper.*
📄	2022	**Coordinating Monetary Contributions in Participatory Budgeting**, *Haris Aziz, Sujit Gujar, Manisha Padala, Mashbat Suzuki, Jeremy Vollen, Working Paper.*

Selected research talks

2022	**Centre for Mathematical Social Sciences Summer Workshop**, *"Coordinating Monetary Contributions for Partipatory Budgeting", University of Auckland.*
2022	**AI-OPT: Workshop on AI-based Optimisation**, *"A Novel Tractable Case for the Set-Union Knapsack Problem", University of Melbourne.*

Service

Reviewer, *Social Choice and Welfare.*
Subreviewer, *AAMAS-23.*

Misc. Research

📄	2020	**Family Life in Lockdown**, *Pietro Biroli, Steven Bosworth, Marina Della Giusta, Amalia Di Girolamo, Sylvia Jaworska, Frontiers in Psychology.*
📄	2018	**The Economic Potential for Energy Storage in Nevada**, *Ryan Hledik, Judy Chang, Roger Leuken, Johannes Pfeifenberger, John Imon Pedtke, Jeremy Vollen, prepared for Public Utilities Commission of Nevada and Nevada's Governor's Office of Energy.*

Professional Experience

2019-2021	**Pre-doctoral Research Fellow**, *Department of Economics, University of Zürich.* Survey design, data pipeline, econometrics, and causal inference in health economics.

2017-2019 **Research Analyst**, *Brattle Group*.
Constrained optimization, power market simulation, project management.

Selected awards

2017 **BP Supply & Trading Scholarship**.

2013-2017 **President's Honor Roll**, *Rice University*.

Skills

Statistical analysis Python, R

Experimental design Experience with survey design and econometric analysis in economics research.

LaTeX

References

Dr. Haris Aziz, University of New South Wales, haris.aziz@unsw.edu.au

Dr. Toby Walsh, University of New South Wales, t.walsh@unsw.edu.au