

# Jeremy Vollen

## Curriculum Vitae

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📄 [j-vollen.github.io](https://j-vollen.github.io)

### Education

- 2021-Present **PhD in Computer Science (intended thesis submission: May 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

computational social choice, algorithmic game theory.

### Publications

- 📄 2024 **Maximum Flow is Fair: A Network Flow Approach to Committee Voting**, Mashbat Suzuki, Jeremy Vollen, *EC*.
- 📄 2024 **Fair Lotteries for Participatory Budgeting**, Haris Aziz, Xinhang Lu, Mashbat Suzuki, Jeremy Vollen, Toby Walsh, *AAAI*.
- 📄 2023 **Best-of-Both-Worlds Fairness in Committee Voting**, Haris Aziz, Xinhang Lu, Mashbat Suzuki, Jeremy Vollen, Toby Walsh, *WINE*.
- 📄 2023 **Coordinating Monetary Contributions in Participatory Budgeting**, Haris Aziz, Sujit Gujar, Manisha Padala, Mashbat Suzuki, Jeremy Vollen, *SAGT*.

### Selected research talks

- 2022 **Centre for Mathematical Social Sciences Summer Workshop**, “Coordinating Monetary Contributions for Participatory 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*, *JAIR*, *JAAMAS*.  
**Subreviewer**, *SODA*, *AAMAS*, *ECAI*.

### 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.

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## Teaching Experience

2023-2024 **Game Theory**, *Teaching assistant*, UNSW Sydney.

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## 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.

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## Selected awards

2024 **Google Travel Grant**.

2017 **BP Supply & Trading Scholarship**.

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## Skills

Statistical Python, R  
analysis

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

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## References

**Dr. Haris Aziz**, University of New South Wales, [haris.aziz@unsw.edu.au](mailto:haris.aziz@unsw.edu.au)

**Dr. Toby Walsh**, University of New South Wales, [t.walsh@unsw.edu.au](mailto:t.walsh@unsw.edu.au)