

# Jeremy Vollen

## Curriculum Vitae

✉ [j.vollen@unsw.edu.au](mailto:j.vollen@unsw.edu.au)  
🌐 [j-vollen.github.io](https://j-vollen.github.io)

### Education

- 2021-Present **PhD in Computer Science (intended thesis submission: April 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 **Proportionally Representative Clustering**, Haris Aziz, Barton E. Lee, Sean Morota Chu, Jeremy Vollen, *WINE*
- 📄 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 **Multidisciplinary Workshop on Advances in Preference Handling Workshop**, “Best-of-Both-Worlds Fairness in Committee Voting”, Macau, China
- 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*, *AAAI*, *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*

---

## Teaching Experience

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

---

## 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

- 2024 **Google Travel Grant**
- 2017 **BP Supply & Trading Scholarship**

---

## Skills

Statistical analysis Python, R

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

L<sup>A</sup>T<sub>E</sub>X

---

## 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)

**Dr. Pietro Biroli**, University of Bologna, [pietro.biroli@unibo.it](mailto:pietro.biroli@unibo.it)