DANIEL HALPERN

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EDUCATION

Harvard University **Cambridge, MA**
Ph.D. in Computer Science *August 2020 to present*
- Advisor: Ariel Procaccia

University of Toronto **Toronto, ON**
B.Sc. in Computer Science with High Distinction *September 2016 to June 2020*
- Major GPA: 4.0/4.0, Cumulative GPA: 3.96/4.0

WORK EXPERIENCE

Carnegie Mellon University **Pittsburgh, PA**
Research Intern *June 2019 - August 2019*
- Worked with Professor Ariel Procaccia
- Research in topics related to Algorithmic Game Theory

CryptoNumerics **Toronto, ON**
Software Developer *April 2018 - July 2020*
- One of the first employees at start up working on machine learning and cryptography
- Leader of several projects in Python, Java, and Javascript

AWARDS

- ***National Science Foundation Graduate Research Fellowship*** 2021
- *University of Toronto Computer Science Undergraduate Research Award* 2020
- *Harold Willet Stewart Memorial Scholarship* 2020
- *Anna And Alex Beverly Memorial Fellowship* 2020
- *Samuel Beatty In Course Scholarship* 2019
- *C. L. Burton Scholarship For Mathematics and Physical Sciences* 2019
- *Dr. James A. & Connie P. Dickson Scholarship in Science & Mathematics* 2018
- *Alan Milne McCombie Scholarship* 2017
- *University of Toronto President's Scholars of Excellence Program* 2016

PUBLICATIONS

- M. Revel, D. Halpern, A. Berinsky, A. Jadbabaie, *Liquid Democracy in Practice: An Empirical Analysis of its Epistemic Performance*. Working Paper.
- D. Halpern, J. Y. Halpern, A. Jadbabaie, E. Mossel, A. D. Procaccia, and M. Revel. *In Defense of Fluid Democracy*. Working Paper.
- D. Halpern and A. D. Procaccia. *Unbiased Information Packets*. Working Paper.
- A. Borodin, D. Halpern, M. Latifian, and N. Shah. *Distortion in Voting with Top-t Preferences*. Proc. of 31st International Joint Conference on Artificial Intelligence (**IJCAI**), 2022. Forthcoming.
- D. Halpern, G. Kehne, and J. Tucker-Foltz. *Can Buyers Reveal for a Better Deal?*. Proc. of 31st International Joint Conference on Artificial Intelligence (**IJCAI**), 2022. Forthcoming.
- M. Revel, T. Lin, and D. Halpern. *How Many Representatives Do We Need? The Optimal Size of an Epistemic Congress*. Proc. of 36th AAAI Conference on Artificial Intelligence (**AAAI**), 2022. Forthcoming.
- D. Halpern and N. Shah *Fair and Efficient Resource Allocation with Partial Information*. Proc. of 30th International Joint Conference on Artificial Intelligence (**IJCAI**), pp. 224-230, 2021.
- D. Halpern, G. Kehne, D. Peters, A. D. Procaccia, N. Shah, and P. Skowron. *Aggregating Binary Judgments Ranked By Accuracy*. Proc. of 35th AAAI Conference on Artificial Intelligence (**AAAI**), pp. 5456-5463, 2021.
- D. Halpern, A. D. Procaccia, A. Psomas, and N. Shah. *Fair Division with Binary Valuations: One Rule to Rule Them All*. Proc. of 16th Conference on Web and Internet Economics (**WINE**), pp. 370-383, 2020.
- V. Gkatzelis, D. Halpern, and N. Shah. *Resolving the Optimal Metric Distortion Conjecture*. Proc. of 61st Annual IEEE Symposium on Foundations of Computer Science (**FOCS**), pp. 1427-1438, 2020.
- D. Halpern and N. Shah. *Fair Division with Subsidy*. Proceedings of the 12th International Symposium on Algorithmic Game Theory (**SAGT**), pp. 374-389, 2019.