

DANIEL HALPERN

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EDUCATION

Harvard University

Ph.D. in Computer Science

- Advisor: Ariel Procaccia

Cambridge, MA

August 2020 to present

University of Toronto

B.Sc. in Computer Science with High Distinction

- Major GPA: 4.0/4.0, Cumulative GPA: 3.96/4.0

Toronto, ON

September 2016 to June 2020

WORK EXPERIENCE

Carnegie Mellon University

Research Intern

- Worked with Professor Ariel Procaccia
- Research in topics related to Algorithmic Game Theory

Pittsburgh, PA

June 2019 - August 2019

CryptoNumerics

Software Developer

- One of the first employees at start up working on machine learning and cryptography
- Leader of several projects in Python, Java, and Javascript

Toronto, ON

April 2018 - July 2020

TEACHING EXPERIENCE

University of Toronto

Undergraduate Teaching Assistant

- Data Structures and Analysis (CSC263)

Toronto, ON

Spring 2020

University of Toronto

Undergraduate Teaching Assistant

- Algorithm Design, Analysis & Complexity (CSC373)

Toronto, ON

Spring 2020

AWARDS

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| • 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, 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, 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.