# Greg d'Eon

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## Education

**University of British Columbia** Sept 2019 – present
PhD in Computer Science
Advisors: Kevin Leyton-Brown, James Wright (UAlberta)

**University of Waterloo** Sept 2017 – Aug 2019
Master's of Mathematics (Computer Science)
Advisors: Edith Law, Kate Larson

**Dalhousie University** Sept 2012 – Dec 2016
Bachelor of Computer Engineering

## Computer Science Publications

### Conference Papers

**Greg d'Eon**, Neil Newman, and Kevin Leyton-Brown. "Understanding Iterative Combinatorial Auction Designs via Multi-Agent Reinforcement Learning." EC 2024.

**Greg d'Eon**, Sophie Greenwood, Kevin Leyton-Brown, and James R. Wright. "How to Evaluate Behavioral Models." AAAI 2024. *Oral Presentation (2% of submissions).*

Hedayat Zarkoob, **Greg d'Eon**, Lena Podina, and Kevin Leyton-Brown. "Better Peer Grading through Bayesian Inference." AAAI 2023.

**Greg d'Eon**, Jason d'Eon, Kevin Leyton-Brown, and James R. Wright. "The Spotlight: A General Method for Discovering Systematic Errors in Deep Learning Models." FAccT 2022.

**Greg d'Eon** and Kate Larson. "Testing Axioms Against Human Reward Divisions in Cooperative Games." AAMAS 2020.

Blaine Lewis*, **Greg d'Eon***, Andy Cockburn, and Daniel Vogel. "KeyMap: Improving Keyboard Shortcut Vocabulary Using Norman's Mapping." CHI 2020.

Johann Wentzel, **Greg d'Eon**, and Daniel Vogel. "Improving Virtual Reality Ergonomics Through Reach-Bounded Non-Linear Input Amplification." CHI 2020. *Honorable Mention for Best Paper (top 5% of submissions).*

**Greg d'Eon**, Joslin Goh, Kate Larson, and Edith Law. "Paying Crowd Workers for Collaborative Work." CSCW 2019.

### Peer Reviewed Workshop Papers

**Greg d'Eon**, Kate Larson, and Edith Law. "The Effects of Single-Player Coalitions on Reward Divisions in Cooperative Games." Games, Agents, and Incentives Workshop (AAMAS), 2019.

## Work Experience

**Auctionomics** October 2020 – present
Software Consultant

- Creating simulation tools to help clients analyze the game-theoretic robustness of their bidding strategies in high-stakes auctions.

**NewAE Technology** Jan 2017 – Aug 2017; May 2016 – Aug 2016
Software Engineer

- Developed open-source software for the ChipWhisperer platform using Python, C, and Verilog, adding software features and a wide range of sample firmware.
- Wrote tutorials and helped to deliver training courses for the ChipWhisperer software, including a 30-student course at Black Hat USA.

**Dalhousie University** Sept 2015 – Dec 2015
Research Assistant with Dr. Guy Kember

- Developed efficient algorithms for simulating head impacts, using a combination of finite element methods and partial differential equations adapted from existing work on acoustics.

**Dalhousie University** Jan 2014 – Apr 2015; May 2014 – Aug 2014
Research Assistant with Dr. Jeff Dahn

- Designed and built inexpensive battery testing equipment and software to emulate commercial lab equipment, allowing faster and more efficient data collection.

## Awards

Research Positions

- Simons Institute Visiting Graduate Student (Learning and Games Program, April-May 2022)

Scholarships

- UBC Advanced Machine Learning Training Network Graduate Trainee ($31,920; 2024)
- NSERC CGS-D ($105,000 over 3 years; 2019-2022)
- UBC 4-Year Fellowship ($72,800 over 4 years; 2019-2023; declined 2019-2022 to accept NSERC CGS-D)
- Ontario Graduate Scholarship ($15,000; 2018)
- Waterloo President's Graduate Scholarship ($5,000; 2018)
- NSERC CGS-M ($17,500; 2017)
- Waterloo President's Graduate Scholarship ($10,000; 2017)
- John G. Bruce Scholarship ($10,000; 2014; renewed 2015)
- Dalhousie Entrance Scholarship ($5,000/year; 2012 – 2015)

Distinctions

- Graduate TA Award (UBC Computer Science, 2022)
- Distinguished Teaching Assistantship Award (Waterloo Computer Science, 2018)
- Dalhousie University Medal (Top Academic Standing, Dalhousie Computer Engineering, 2017)
- IEEE Atlantic Section Medal (Top Academic Standing; Dalhousie Computer Engineering, 2017)
- Kenneth Marginson Award (Top Academic Standing; Dalhousie Class of Engineering, 2014)
- Bob Walter Award (Student Vote; Dalhousie Class of Engineering, 2014)

## Teaching Experience

Instructional Assistant

- Duties included designing course syllabi, lectures, assignments, and tests; teaching lectures and lab sessions; managing class discussions; holding office hours; maintaining peer grading software; and marking assignments and tests.

**University of British Columbia**

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|---|---|
| Modelling Human Strategic Behaviour (CPSC 532) | Jan – Apr 2022 |
| Computers and Society (CPSC 430) | Jan – Apr 2021 |
| Computers and Society (CPSC 430) | Sept – Dec 2021 |
| Introduction to Cognitive Systems (COGS 200) | Sept – Dec 2020 |

**University of Waterloo**

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|---|---|
| Human-Computer Interaction (CS 449) | May – Aug 2019 |
| Intro to Computer Programming 1 (CS105) | Jan – Apr 2019 |
| Intro to Computer Programming 1 (CS105) | Sept – Dec 2018 |
| Human-Computer Interaction (CS449) | May – Aug 2018 |
| Intro to Computer Programming 2 (CS106) | Jan – Apr 2018 |
| Intro to Computer Programming 1 (CS105) | Sept – Dec 2017 |

**Dalhousie University**

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|---|---|
| C++ Programming (ENGM3282) | Sept – Dec 2016 |
| C Programming (ENGM1081) | Sept – Dec 2015 |

Teaching Assistant

- Duties included grading up to 120 assignments or 100 tests each week.

**Dalhousie University**

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|---|---|
| Vector Calculus (ENGM2101) | May – Aug 2016 |
| C++ Programming (ENGM3282) | Sept – Dec 2015 |
| C Programming (ENGM1081) | Sept – Dec 2014 |
| Differential Equations (ENGM2022) | Jan – Apr 2015 |
| Linear Algebra (ENGM1041) | Jan – Apr 2014 |
| C Programming (ENGM1081) | Sept – Dec 2013 |

## Academic Service

Reviewing:

- 2024: IEEE Transactions on Games, IJCAI
- 2023: FORC, ICLR, IEEE Transactions on Games, JMLR, UAI
- 2022: EC, CHI
- 2021: NeurIPS (workshops)
- 2019: CHI, CSCW
- 2018: CHI (late-breaking work)

Conference volunteering roles:

- 2023: EC
- 2019–2020: NeurIPS Women in Machine Learning (WiML) workshop