

# Greg d'Eon

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## Education

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### University of British Columbia

PhD in Computer Science

Advisors: Kevin Leyton-Brown, James Wright (UAlberta)

Sept 2019 – present

### University of Waterloo

Master's of Mathematics (Computer Science)

Advisors: Edith Law, Kate Larson

Sept 2017 – Aug 2019

### Dalhousie University

Bachelor of Computer Engineering

Sept 2012 – Dec 2016

## Publications

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### Pre-Prints

**Greg d'Eon**, Sophie Greenwood, Kevin Leyton-Brown, and James R. Wright. "Loss Functions for Behavioral Game Theory."

### Conference Papers

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

**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.

### Journal Articles

Colin O'Flynn and **Greg d'Eon**. "Power Analysis and Fault Attacks against Secure CAN: How Safe Are Your Keys?." SAE International Journal of Transportation Cybersecurity and Privacy, 2018.

Kathlyne Nelson, **Greg d'Eon**, Asher Wright, Lin Ma, Jian Xia, and Jeff Dahn. "Studies of the Effect of Voltage on the Impedance and Cycling Performance of Li[Ni<sub>0.4</sub> Mn<sub>0.4</sub> Co<sub>0.2</sub>]O<sub>2</sub>/Graphite Lithium-Ion Pouch Cells." Journal of the Electrochemical Society, 2015.

### 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

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### **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

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### Scholarships

- 2019 NSERC CGS-D – \$105,000 over 3 years
- 2019 UBC 4-Year Fellowship – \$72,800 over 4 years (declined 2019-2022 to accept NSERC)
- 2018 Ontario Graduate Scholarship – \$15,000
- 2018 Waterloo President's Graduate Scholarship – \$5,000
- 2017 NSERC CGS-M – \$1,7500
- 2017 Waterloo President's Graduate Scholarship – \$10,000
- 2014 John G. Bruce Scholarship – \$10,000 (renewed 2015)
- 2012 Dalhousie Entrance Scholarship – \$5,000 (renewed 2013 – 2015)

### Distinctions

- 2018 Distinguished Teaching Assistantship Award – Waterloo Computer Science
- 2017 Dalhousie University Medal – Top Academic Standing, Computer Engineering
- 2017 IEEE Atlantic Section Medal – Top Academic Standing, Computer Engineering
- 2014 Kenneth Marginson Award – Top Academic Standing, Class of Engineering
- 2014 Bob Walter Award – Student Vote, Class of Engineering

## Teaching Experience

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### 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:**

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:**

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:**

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:**

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

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### Conference reviewing:

- ICLR 2023
- EC 2022
- NeurIPS 2021 (workshops)
- CHI 2018 (late-breaking work track), 2019, 2022
- CSCW 2019

### Conference volunteering roles:

- NeurIPS Women in Machine Learning (WiML) workshop: 2019, 2020

## Extra-curricular Involvement

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### Formula SAE

Sept 2013 – May 2017

Dalhousie University

- May 2016 – May 2017: Team captain
  - Led 50+ students in a hierarchical team structure
  - Responsible as the face of the team, directing meetings with system leads, working on recruitment and sponsorships, and upkeeping the team's social media
  - Contributed heavily to multiple areas of the team, providing technical help to the suspension system and temporarily leading the powertrain system
- Sept 2015 – April 2016: Electrical system lead
  - Led a group of 10 engineering students, managing tasks on tight deadlines
  - Used professional engineering software to design and build wiring systems for a new engine, including work on an electronic shifter
- Sept 2014 – August 2015: Electrical system member
- Sept 2013 – August 2014: Aerodynamics system member