Greg d'Eon

Vancouver, BC • greg.l.deon@gmail.com

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

Publications

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, James R. Wright, and Kevin Leyton-Brown. "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[Ni0.4 Mn0.4 Co0.2]O2/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.

Master's Thesis

Greg d'Eon. "Applying Fair Reward Divisions to Collaborative Work." University of Waterloo, 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

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

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

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

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