

# Jason d'Eon

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## Education

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- Dalhousie University** Sept. 2019 – Present  
PhD in Computer Science  
Advisor: Sageev Oore
- University of Waterloo** Sept. 2018 – Aug. 2019  
Master's of Mathematics (Pure Mathematics)  
Advisor: Ruxandra Moraru
- Saint Mary's University** Sept. 2014 – Apr. 2018  
Bachelor of Science in Mathematics (Hons) and Computer Science (Hons)  
Advisor: Wendy Finbow-Singh

## Publications

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### Preprints

Scott C. Lowe, Robert Earle, **Jason d'Eon**, Thomas Trappenberg, Sageev Oore. "Logical Activation Functions: Logit-space equivalents of Boolean Operators." ArXiv, Oct 2021.

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." ArXiv, June 2021.

### Conference Papers

**Jason d'Eon**\*, Sri Harsha Dumpala\*, Chandramouli Shama Sastry\*, Daniel Oore, Sageev Oore. "Musical Speech: A Transformer-based Composition Tool." NeurIPS 2020 Demonstration Track.

Sri Harsha Dumpala\*, **Jason d'Eon**\*, Sageev Oore. "Sine-Wave Speech as Preprocessing for Downstream Tasks." FRSM 2020 (Frontiers of Research in Speech and Music).

**Jason d'Eon** and Chrystopher L. Nehaniv. "Algebraic Structure of the Varikon Box." AMMCS 2019.

## Work Experience

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- Saint Mary's University** May 2017 – August 2017  
Research Assistant with Dr. Pawan Lingras
- Worked with teams of graduate students on industry-sponsored projects.
  - Created Python libraries for text-similarity and topic clustering of text documents.
- Saint Mary's University** May 2016 – August 2016  
Research Assistant with Dr. Sageev Oore
- Designed neural networks for composer classification of MIDI files using the TensorFlow library.
  - Created Python libraries for low-level handling of MIDI files.
- Saint Mary's University** May 2015 – August 2015  
Research Assistant with Dr. Christa Brosseau
- Explored green synthesis routes for silver nanoparticles.
  - Trained on using Raman spectrophotometer and FE-SEM.

## Awards

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### Scholarships

- 2021 Vector Institute Student Grant – \$6,000
- 2020 Vector Institute Student Grant – \$4,000
- 2018 NSERC CGS-M – \$17,500
- 2018 Waterloo President's Graduate Scholarship – \$5,000
- 2017 Adam Hogg Memorial Scholarship – \$900
- 2017 MT&T Computing Science & Business Administration Scholarship – \$1,900
- 2017 NSERC USRA – \$7,000
- 2016 NSERC USRA – \$7,000
- 2015 Saint Mary's Dean's Award – \$7,000

### Distinctions

- 2018 Saint Mary's Faculty of Science Gold Medal (Highest CGPA)
- 2015 – 2018 Saint Mary's Dean's List

## Teaching Experience

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### Dalhousie University

Jan 2020 – Present

Teaching Assistant

- TA/IA duties:
  - Jan - Apr 2020: Machine Learning (CS4155/6505)
  - Jan - Apr 2021: Machine Learning (CS4155/6505)

### University of Waterloo

Sept 2018 – Aug 2019

Teaching Assistant & Course Marker

- TA duties:
  - Sept - Dec 2018: Introductory Algebra for Arts and Social Science (MATH103)
- Courses graded:
  - May - Aug 2019: Groups and Rings (PMATH347)
  - Jan - Apr 2019: Algebra for Honours Mathematics (MATH135)
  - Sept - Dec 2018: Mathematics for Accounting (MATH109)

### Saint Mary's University

Sept 2017 – Jun 2018

Course Marker

- Courses graded:
  - May - Jun 2018: Introductory Calculus I (MATH1210)
  - Jan - Apr 2018: Introduction to Mathematical Statistics (MATH1216)
  - Sept - Dec 2017: Survey of Discrete Mathematics (MATH2305)

### Saint Mary's University

Sept 2017 – Dec 2017; Jan 2016 – Apr 2016

Tutor at Centre for Science Numeracy & Academic Proficiency

- Hired by invitation to tutor first-year students in physics, chemistry, and mathematics