

# NICHOLAS MEADE

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## EDUCATION

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<b>PhD in Computer Science</b> <i>McGill University and Mila, the Quebec AI Institute</i> GPA: 4.00/4.00 Advisor: Prof. Siva Reddy <i>Fast-tracked from M.Sc. in Computer Science in Fall 2022.</i>	2020–
<b>Bachelor of Computer Science (Hons.)</b> <i>Dalhousie University</i> GPA: 4.19/4.30 Advisor: Prof. Sageev Oore	2015–2020

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## EXPERIENCE

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<b>Part-time Applied Scientist Intern</b> <i>Amazon Alexa AI</i> Advisor: Dr. Spandana Gella	Sept 2022–Dec 2022
<b>Teaching Assistant</b> <i>McGill University</i> Teaching Assistant for COMP-599 and LING-484/782	Sept 2022–Dec 2022
<b>Applied Scientist Intern</b> <i>Amazon Alexa AI</i> Advisor: Dr. Spandana Gella	May 2022–Sept 2022
<b>Teaching Assistant</b> <i>Faculty of Computer Science, Dalhousie University</i> Teaching Assistant for CSCI 3151: Foundations of Machine Learning	2019
<b>Software Development Intern</b> <i>Canadian Center for Cyber Security, Ottawa ON</i>	2018
<b>Software Development Intern</b> <i>Vector Aerospace, Summerside, PE</i>	2017
<b>Undergraduate Research Assistant</b> <i>Department of Physiology and Biophysics, Dalhousie University</i> Advisor: Prof. Roger Croll	2015-2016

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## PAPERS

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### Evaluating correctness and faithfulness of instruction-following models for question-answering

Vaibhav Adlakha, Parishad BehnamGhader\*, Xing Han Lu\*, Nicholas Meade\*, Siva Reddy  
*arXiv 2023*

### Using In-Context Learning to Improve Dialogue Safety

Nicholas Meade, Spandana Gella, Devamanyu Hazarika, Prakhar Gupta, Di Jin, Siva Reddy, Yang Liu, Dilek Hakkani-Tür  
*Findings of Empirical Methods in Natural Language Processing (EMNLP) 2023.*

### Evaluating the Faithfulness of Importance Measures in NLP by Recursively Masking Allegedly Important Tokens and Retraining.

Andreas Madsen, Nicholas Meade\*, Vaibhav Adlakha\*, Siva Reddy.  
*Findings of Empirical Methods in Natural Language Processing (EMNLP) 2022.*

**An Empirical Survey of the Effectiveness of Debiasing Techniques for Pre-trained Language Models.**  
Nicholas Meade, Elinor Poole-Dayana, Siva Reddy.  
*Association for Computational Linguistics (ACL) 2022.*

**Exploring Conditioning for Generative Music Systems with Human-Interpretable Controls.**  
Nicholas Meade<sup>\*</sup>, Nicholas Barreyre<sup>\*</sup>, Scott C. Lowe, Sageev Oore.  
*International Conference on Computational Creativity (ICCC), 2019.*

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#### PRESENTATIONS

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**An Empirical Survey of the Effectiveness of Debiasing Techniques for Pre-trained Language Models.** May 2022

*Association for Computational Linguistics (ACL) 2022, Oral.*

**Measuring and Mitigating Social Bias in Pre-trained Language Models** April 2022

*Natural Language Processing Reading Group: Mila, the Quebec AI Institute*

**An Empirical Survey of the Effectiveness of Debiasing Techniques for Pre-trained Language Models.** Oct 2021

*Institut de Valorisation des Données (IVADO) Digital October, Oral.*

**Joint and Distributional Controls for Sequence Generation.** April 2020

*Dalhousie University, Bachelor's Thesis, Oral.*

**Exploring Conditioning for Generative Music Systems with Human-Interpretable Controls.** June 2019

*International Conference on Computational Creativity, 2019, Oral.*

**Controllable Music Generation with Performance RNN.** Jan. 2019

*Dalhousie In-House Computer Science Conference, Poster.*

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#### AWARDS

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**Canada Graduate Scholarships - Doctoral Program (CGS-D) (\$105,000 CAD)** 2023

*National Sciences and Engineering Research Council (NSERC)*

**MSc Excellence Scholarship (\$40,000 CAD)** 2020-2022

Awarded to conduct research under the supervision of Prof. Siva Reddy

*Institut de Valorisation des Données (IVADO)*

**University Medal in Computer Science (\$500 CAD)** 2020

Awarded to a Honour's graduating student in recognition of superior achievement in their field of study

*Dalhousie University*

**Rod Shoveller Memorial Bursary (\$3,000 CAD)** 2019

*Dalhousie University*

**Undergraduate Student Research Award (\$4,500 CAD)** 2018, 2019

Awarded to conduct research under the supervision of Prof. Sageev Oore

*National Sciences and Engineering Research Council (NSERC)*

**Bruce and Dorothy Rossetti Scholarship (\$1,250 CAD)** 2018

Awarded to the student with the third highest academic standing in their year

*Dalhousie University*

**Lois Robertson Scholarship (\$750.00 CAD)** 2017

*Dalhousie University*

**Hector McInnes Memorial Scholarship (\$3,000 CAD)** 2016

*Dalhousie University*

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#### TECHNICAL SKILLS

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**Languages**

Python, Java, Bash, SQL, C

**Libraries**

PyTorch, TensorFlow, NumPy, Pandas, Scikit-learn

**Tools**

Git, SVN, L<sup>A</sup>T<sub>E</sub>X, Linux