

# Koustuv Sinha

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## CONTACT INFORMATION

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## RESEARCH INTERESTS

Generative Language Models and Dialog Systems, Neural Reasoning on Language, Linguistics

## EDUCATION

**McGill University**, Montreal, QC, Canada

PhD Student, School of Computer Science, September 2018 - present

- Advised by: [Dr Joelle Pineau](#) and [Dr William L. Hamilton](#)

MSc Thesis, School of Computer Science, September 2016 - August 2018

- Thesis: Hierarchical text classification of large-scale topics: a Neural approach
- Advised by: [Dr Derek Ruths](#), Collaboration with : [Dr Joelle Pineau](#)
- GPA : 3.94/4

**Jodhpur Park Boys School**, West Bengal, India

Higher Secondary, July 2008 - May 2010

- Percentage Obtained : 84.6%

**Ramakrishna Mission Vidyalaya, Narendrapur**, West Bengal, India

Secondary, May 2002 - April 2008

- Percentage Obtained : 91.1%

## RESEARCH EXPERIENCE

**Facebook AI Research (FAIR)**, Montreal, QC, Canada

*PhD Research Intern*

**Jan 2019 - Present**

**Samsung Advanced Institute of Technology**, Montreal, QC, Canada

*Research Intern*

**Summer 2018**

**McGill University**, Montreal, QC, Canada

*Research Associate*, Dialog Group, *RL Lab* / *Mila*  
Supervised by Dr. Joelle Pineau

**June 2017 - present**

*Research Associate*, *Network Dynamics Lab*

**September 2016 - August 2018**

Supervised by Dr. Derek Ruths and collaboration  
with David Jurgens

*Research Associate*, *txtLab - NovelTM Project*

**September 2016 - August 2017**

Supervised by Dr. Andrew Piper

**Indian Institute of Technology, Kanpur**, India

*Senior Project Associate*

**September 2015 - March 2016**

Department of Computer Science & Engineering

Supervised by [Dr. Arnab Bhattacharya](#) & [Dr. Koumudi Patil](#)

## TEACHING EXPERIENCE

**McGill University**, Montreal, QC, Canada

*Teaching Assistant*, COMP 652 Machine Learning **Fall 2018**  
 Riashat Islam, Dr Audrey Durand

*Teaching Assistant*, COMP 551 Applied Machine Learning **Fall 2017**,  
 Prof. Dr. Joelle Pineau, Dr Herke Van Hoof, Sarath Chandar,  
 Ryan Lowe **Winter 2018**

*Teaching Assistant*, COMP 102B Computers & Computing **Winter 2017**  
 Prof. Dr. Derek Ruths

*Teaching Assistant*, COMP 189 Computers & Society **Fall 2016**  
 Prof. Dr. Derek Ruths

## PUBLICATIONS

- Koustuv Sinha, Shagun Sodhani, Jin Dong, Joelle Pineau and Will Hamilton; *CLUTRR: A Diagnostic Benchmark for Inductive Reasoning in Text*, Empirical Methods of Natural language Processing (EMNLP), 2019
- Joelle Pineau, Koustuv Sinha, Genevieve Fried, Rosemary Nan Ke, and Hugo Larochelle; *ICLR Reproducibility Challenge, 2019*, ReScience-C Journal, Volume 5, Issue 2, 2019
- Koustuv Sinha, Shagun Sodhani, Will Hamilton and Joelle Pineau; *Compositional Language Understanding with Text-based Relational Reasoning*, Relational Representation Learning Workshop, Neural Information Processing Systems (NeurIPS), 2018
- Peter Henderson, Koustuv Sinha, Rosemary Nan Ke, and Joelle Pineau; *Adversarial Gain*, Arxiv Pre-print 2018
- Koustuv Sinha, Yue Dong, Jackie Chi-kit Cheung and Derek Ruths; *A Hierarchical Neural Attention-based Text Classifier*, Empirical Methods of Natural language Processing (EMNLP), 2018
- Koustuv Sinha, Nicolas Angelard-Gontier, Peter Henderson, Prasanna Parthasarathy, Mike Noseworthy; *Reasoning & Learning Lab Chatbot*, NIPS 2017 Conversational Intelligence Challenge Finalist
- Peter Henderson, Koustuv Sinha, Nicolas Angelard-Gontier, Nan Rosemary Ke, Genevieve Fried, Ryan Lowe, Joelle Pineau; *Ethical Challenges in Data-Driven Dialogue Systems*, AAAI/ACM conference on Ethics and Safety, 2017

## INVITED TALKS

- *Best practices for ensuring Reproducibility in CS Research*, 1st Annual CS-Can Student Symposium, Montreal, 2019
- *On the unreasonable complexity of detecting social interactions in literature*, [Digital Humanities \(DH\) 2017](#), July'17, McGill University, Montreal

## ACTIVITIES

- Co-organizer, [NeurIPS Reproducibility Challenge 2019](#)
- Co-organizer & Academic Liason, [ICLR Reproducibility Challenge 2019](#)
- Student Volunteer, Neural Information Processing Systems (NeurIPS), Montreal, December 2018
- Student Volunteer, [Montreal AI Symposium \(MAIS\)](#), August 2018
- Student Volunteer, [11<sup>th</sup> International Conference on Web and Social Media \(ICWSM\)](#), May 2017, Montreal
- President, [Computer Science Graduate Society \(CSGS\)](#), McGill University, 2018-19; VP Social and Finance, 2017-18
- Host, [Nodeschool Kolkata Chapter](#), Institute of Engineering & Management, Kolkata, May 2016.

AWARDS &  
ACHIEVEMENTS

- **Fonds Nature et Technologies Quebec (FRQNT)** scholarship for Master level study in Computer Science, 2018
- **Facebook ParIAI Grant** for project proposal *Multi-model dialog generation with Off-Policy Q Learning*, Fall 2017
- **Pierre Arbour Foundation Scholarship** for Master level study in Computer Science & Engineering, 2017-18
- **Sridharacharya Prize** for Computer Excellency awarded due to consistent Highest Marks in Computer Science at **Ramakrishna Mission Vidyalaya, Narendrapur**, 2007

REFERENCES

Available on request.

MORE  
INFORMATION

Google Scholar Profile

<https://scholar.google.ca/citations?user=9P9QcckAAAAJ&hl=en>

LinkedIn Profile

<https://in.linkedin.com/in/koustuvsinha>.

Github Profile

<https://github.com/koustuvsinha>.