

# MATTHEW SHUNSHI ZHANG

10330 Yonge St., Richmond Hill ON, L4C 5N1

(+1) 647-470-5998 ♦ matthew.zhang@mail.utoronto.ca ♦ **GitHub ID:** matthewzhang1998

## EDUCATION

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**University of Toronto** September 2020 -  
Masters of Science  
Computer Science, Co-supervised by Prof. Erdogdu and Prof. Garg .

**University of Toronto** September 2016 - May 2020  
Bachelors of Applied Science  
Engineering Science, Machine Intelligence Specialization. Thesis: *Interference-Free Multitask Learning Through Network Sparsity*  
High Honours, cGPA: 3.94/4.00

## WORK EXPERIENCE

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**Vector Institute, Toronto** May 2018 -  
*Researcher*

## CURRENT PROJECTS

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**Optimal Policy Representations for Linear Reinforcement Learning Models**

**Chi-Squared Convergence of Langevin Monte Carlo**

## PUBLICATIONS

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**One-Shot Pruning of Recurrent Neural Networks by Jacobian Spectrum Evaluation**  
Shunshi Zhang, Bradly Stadie ICLR 2020

**Benchmarking Model-Based Reinforcement Learning**  
Tingwu Wang, Xuchan Bao, Ignasi Clavera, Jerrick Hoang, Yeming Wen, Eric Langlois, **Shunshi Zhang**, Guodong Zhang, Pieter Abbeel, Jimmy Ba Preprint, 2019

## EXTRACURRICULAR INVOLVEMENT

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**University of Toronto Data Science Team** May 2018 - May 2020  
President, Adviser

**Engineering Student Society** May 2018 - May 2019  
Vice-President Academic, Policy Outreach Director

**University of Toronto Debating Team** September 2016 - May 2018

## AWARDS

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**Daisy Intelligence Scholarship for Engineering Science** 2019

**Faculty of Applied Science and Engineering Award** 2018

**Engineering Society Awards** 2018

**Jane Elizabeth Ham Scholarship** 2017

**Canadian Freshman Debating Champion** 2017

## PROGRAMMING

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**Languages:** Python, MATLAB, C, Java, R,  $\text{\LaTeX}$       **Frameworks:** Tensorflow, PyTorch, Cuda

## REFERENCES

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**Animesh Garg, Professor** garg@cs.toronto.edu

**Murat Erdogdu, Professor** erdogdu@cs.toronto.edu

**Bradly Stadie, Professor** bstadie@vectorinstitute.ai