

# Parsa Torabian

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## ABOUT

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Neuro-AI masters student supervised by Dr. Bryan Tripp at the University of Waterloo's Center for Theoretical Neuroscience. Interested in meta-learning, few-shot learning, online learning, and brain-inspired ML. Ongoing projects involve saccade mechanisms of vision, continual learning, and reinforcement-learning in naturalistic environments.

## EDUCATION

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| <b>University of Waterloo</b><br><i>Masters of Applied Science in Systems Design Engineering</i> | Waterloo, CA<br>2020 – 2022 (expected) |
| <b>University of Waterloo</b><br><i>Bachelor of Applied Science in Electrical Engineering</i>    | Waterloo, CA<br>2016 – 2020            |

## RESEARCH EXPERIENCE

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| <b>Medical Imaging Meets NeurIPS Workshop @ NeurIPS 2020</b><br><i>Multi-Label Incremental Few-Shot Learning for Medical Image Pathology Classifiers</i><br>- Laleh Kalantari, Karsten Roth, Mengye Ren, Parsa Torabian, Joseph Cohen, Marzyeh Ghassemi |
| <b>Paper and Presentation @ CVIS 2020</b><br><i>Comparison of Foveated Downsampling Techniques in Image Recognition</i><br>- Parsa Torabian, Ronak Pradeep, Jeff Orchard, Bryan Tripp   |
| <b>Poster @ NAISys 2020</b><br><i>Simulated environment for naturalistic mouse models</i><br>- Yinghan Chen, Parsa Torabian, John Mielke, Graham Taylor, Bryan Tripp  |

## WORK EXPERIENCE

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| <b>Consultant</b><br><i>Red Oak Technologies</i>                       | May 2020 – Present<br>Toronto, Canada                        |
| <b>Research Intern</b><br><i>Vector Institute</i>                      | Feb 2020 – Aug 2020<br>Toronto, Canada                       |
| <b>Data Scientist</b><br><i>Capital One</i>                            | Sept – Dec 2019 (FT), May – Aug 2020 (PT)<br>Toronto, Canada |
| <b>Data Scientist</b><br><i>IBM</i>                                    | Jan – Apr 2019<br>Toronto, Canada                            |
| <b>Junior Data Scientist</b><br><i>Intelligent Mechatronic Systems</i> | May – Aug 2018<br>Toronto, Canada                            |
| <b>Software Developer</b><br><i>Bombardier Aerospace</i>               | Sept – Dec 2017<br>Toronto, Canada                           |
| <b>Software Developer</b><br><i>Sunnybrook Research Institute</i>      | Jan – Apr 2017<br>Toronto, Canada                            |
| <b>Software Developer</b><br><i>Holmusk</i>                            | May – Aug 2016<br>Singapore, Singapore                       |
| <b>iOS Developer</b><br><i>Glocalspace Inc</i>                         | May – Dec 2015<br>Toronto, Canada                            |

## TECHNICAL SKILLS

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**Languages:** Python, Java, Scala, C/C++, SQL  
**Frameworks:** PyTorch, PySpark, Sklearn, Numba, Pandas, Django  
**Systems:** Hadoop, Spark, Redis, Kafka, Docker, Azure, Heroku