

## Juhan Bae

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CONTACT INFORMATION	University of Toronto & Vector Institute Department of Computer Science 661 University Ave Suite 710 Toronto, ON M5G 1M1	Phone: +1-647-221-2105 E-mail: jbae@cs.toronto.edu Homepage: www.juhanbae.com
RESEARCH INTEREST	Understanding Deep Learning Automated Machine Learning Bayesian Deep Learning	
EDUCATION	<b>University of Toronto</b> , Toronto, ON  Ph.D., Computer Science • Machine Learning Group • Adviser: Roger Grosse  B.Sc. Hons., Computer Science and Statistics • Graduated with High Distinction • Focus on Artificial Intelligence	Sept. 2019 - Present  Sept. 2015 - Nov. 2019
CONFERENCE PUBLICATIONS	[1] Chen, B., <b>Bae, J.</b> , and Mukherjee, D. Fast 6D Pose Estimation with Synthetic Textureless CAD model for Mobile Applications. In: <i>Proceedings of the 2019 IEEE International Conference on Image Processing (ICIP 2019)</i> , September 22–25, 2019. Accepted.  [2] <b>Bae, J.</b> , Zhang, G., and Grosse, R. Eigenvalue Corrected Noisy Natural Gradient. In: <i>Bayesian Deep Learning Workshop in Neural Information Processing Systems (NeurIPS 2018)</i> , December 7, 2019. Accepted.  [3] Kmiec, S., <b>Bae, J.</b> , and An, R. Learnable Pooling Methods for Video Classification. In: <i>The 2nd Workshop on YouTube-8M Large-Scale Video Understanding in European Computer Vision Conference (ECCV 2018)</i> , August 8–14, 2018. Accepted.	
PROFESSIONAL EXPERIENCE	<b>Vector Institute</b> <i>Research Assistant</i> <b>Epson Canada</b> <i>Software Developer - Algorithm Research</i>	August 2018 - April 2019 May 2017 - March 2019
GRANTS AND AWARDS	St.Michael's College Silver Medal St.Micheal's College Scholarship Dean's List Scholar	2019 2017, 2018 2016, 2017, 2019
TEACHING	<b>University of Toronto</b> , Toronto, ON  <i>Teaching Assistant</i> • CSC165 (Mathematical Expression and Reasoning for CS) • CSC412 (Probabilistic Learning and Reasoning)	2016, 2019 2020
PATENTS	[4] Mukherjee, D., Chen, B., and <b>Bae, J.</b> Methods and systems for training an Object Detection algorithm using synthetic images. J0201221US02.	
REVIEWING	International Conference on Learning Representations (ICML)	2019