

Mete Kemertas

Education

University of Toronto

PhD · Computer Science · Sep 2020 - Present
· Focus in reinforcement learning and computer vision.

University of Toronto

MScAC · Computer Science · Sep 2016 - Dec 2017
· Focus in machine learning and natural language processing.
· Worked as a research assistant at the Munk School of Global Affairs on applications of machine learning to macroeconomics research.

McGill University

B.Eng. · Electrical Engineering · Sep 2013 - Dec 2015
· Minor degree: Software Engineering.
· Served as a TA for *MATH 270: Applied Linear Algebra* for two semesters.

Istanbul Technical University

B.Sc. · Electronics and Communication Engineering · Sep 2011 - Jun 2013
· Transferred to McGill University.
· Ranked 2nd in class before transfer.

Publications

Dependency parsing with structure preserving embeddings.

Á. Kádár, L. Xiao, **M. Kemertas**, F. Fancellu, A. Jepson and A. Fazly.
Conf. of the European Chapter of the Assoc. for Computational Linguistics (EACL), 2021.

RankMI: A mutual information maximizing ranking loss.

M. Kemertas, L. Pishdad, K. Derpanis, and A. Fazly.
Conference on Computer Vision and Pattern Recognition (CVPR), 2020.

Dynamic scheduling of MPI-based distributed deep learning training jobs.

T. Capes, V. Raheja, **M. Kemertas**, and I. Mohomed.
MLSys Workshop at Neural Information Processing Systems (NeurIPS), 2018.

Patent Applications

- In Progress · An Efficient Coarse-to-fine Multimodal Gallery Search System with Attention-based Neural Network Models
- US16/725717 · Feature Scrubbing: Anonymize Images on Home Devices
- US16/805051 · A Method for Deep Representation Learning
- US16/690999 · A System and Method of Batch Size Adaptive Workload Scheduler

Awards

Mitacs Accelerate Grant, May 2017

Awarded funding for \$30,000 for an 8-month applied research project.

Industry Experience	Samsung AI Centre · <i>Toronto, ON</i>
	<u>Senior Research Engineer</u> · Mar 2020 - Sep 2020
	<u>Research Engineer</u> · May 2018 - Mar 2020
	<ul style="list-style-type: none"> · Conducted research in machine learning and vision-language integration. · Served as technical lead/co-lead for various research projects. · Multiple publications at leading AI venues. · 4 patent applications pending.
	Tealbook Inc. · <i>Toronto, ON</i>
	<u>Machine Learning Engineer</u> · May 2017 - May 2018
	<ul style="list-style-type: none"> · Removed significant data licensing costs by applying machine learning to produce a large database of the world's suppliers. · Designed and developed a recommendation engine for supplier discovery using multimodal representation learning.
	Ormucio Inc. · <i>Montreal, QC</i>
	<u>Software Developer</u> · May 2016 - Sep 2016
	<ul style="list-style-type: none"> · Developed the backend of a notification and messaging system. · Solved bugs in the backend of a cloud computing platform. · Improved system performance by optimizing database queries and redesigning the caching system on the server side.
	Ericsson · <i>Montreal, QC</i>
	<u>Software Development Intern</u> · May 2015 - Sep 2015
	<ul style="list-style-type: none"> · Participated in the development of a global scale messaging product.
Prog. Languages	<ul style="list-style-type: none"> · Python (expert) · Java, C, C++, C# (proficient) · JavaScript, Swift, MATLAB, R (prior experience)
Tools	PyTorch, TensorFlow, keras, scikit-learn, pandas, Git, Apache Spark, Unity, Apache Beam, Android Studio, neo4j