

Mete Kemertas

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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.

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

Towards robust bisimulation metric learning.

M. Kemertas, T.T. Aumentado-Armstrong (equal contribution).

Advances in Neural Information Processing Systems (NeurIPS), 2021.

Dependency parsing with structure preserving embeddings.

Á. Kádár, L. Xiao, **M. Kemertas**, F. Fancellu, A. Jepsen and A. Fazly.

Conference of the European Chapter of the Association 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.

Preprints

Trusted approximate policy iteration with bisimulation metrics.

M. Kemertas, A. Jepsen.

URL <https://arxiv.org/abs/2202.02881>, 2022.

Patent Applications	<ul style="list-style-type: none"> · US17/072905 · 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
Industry Experience	<p>Samsung AI Centre · <i>Toronto, ON</i> <u>PhD Student Researcher (part-time)</u> · Apr 2021 - Present <u>Senior Research Engineer</u> · Mar 2020 - Sep 2020 <u>Research Engineer</u> · May 2018 - Mar 2020</p> <ul style="list-style-type: none"> · 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. <p>Tealbook Inc. · <i>Toronto, ON</i> <u>Machine Learning Engineer</u> · May 2017 - May 2018</p> <ul style="list-style-type: none"> · First ML engineer of the company. · 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 <p>Ormucio Inc. · <i>Montreal, QC</i> <u>Software Developer</u> · May 2016 - Sep 2016</p> <ul style="list-style-type: none"> · Developed the backend of a notification and messaging system. · Improved system performance by optimizing database queries and redesigning the caching system on the server side. <p>Ericsson · <i>Montreal, QC</i> <u>Software Development Intern</u> · May 2015 - Sep 2015</p> <ul style="list-style-type: none"> · Participated in the development of a global scale messaging product.
Awards	<p>NSERC CGS D Scholarship, May 2022 Doctoral scholarship for \$105,000 awarded to highest-scoring PGS D applicants.</p> <p>Mitacs Accelerate Grant, May 2017 Awarded funding for \$30,000 for an 8-month applied research project.</p>
Community	<ul style="list-style-type: none"> · Referee for CVIU (Elsevier), ICCV '21, CVPR '22, ICML '22, NeurIPS '22.
Prog. Languages	<ul style="list-style-type: none"> · Python (expert) · Java, C, C++, C# (proficient) · JavaScript, Swift, MATLAB, R (prior experience)
Tools	<p>PyTorch, TensorFlow, keras, scikit-learn, pandas, Git, Apache Spark, Unity, Apache Beam, Android Studio, neo4j</p>