

Mete Kemertas

Email: kemertas@cs.toronto.edu Website: metekemertas.github.io

Education

University of Toronto, Vector Institute

PhD · Computer Science · Sep 2020 - Present

- Focus in reinforcement learning and optimal transport.
- Supervisors: Allan D. Jepson, Amir-massoud Farahmand.

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.

Istanbul Technical University

B.Sc. · Electronics and Communication Engineering · Sep 2011 - Jun 2013

- Transferred to McGill University.

Publications

Approximate policy iteration with bisimulation metrics.

M. Kemertas, A. Jepson.

Transactions on Machine Learning Research (TMLR), 2022.

CrispSearch: low-latency on-device language-based image retrieval.

Z. Hu*, L. Xiao*, M. Kemertas*, C. Phillips, I. Mohomed, A. Fazly.

ACM Multimedia Systems Conference, 2022 (*equal contribution).

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. Jepson 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.

Patents	<ul style="list-style-type: none"> · US11430088 · Feature Scrubbing: Anonymize Images on Home Devices · US11580392 · Apparatus for deep representation learning and method thereof
Patent Applications	<ul style="list-style-type: none"> · US17/072905 · Coarse-to-fine Multimodal Gallery Search System with Attention-based Neural Network Models · 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 - Sep 2022 <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. · 2 patents and 2 pending patent applications. <p>Tealbook Inc. · <i>Toronto, ON</i> <u>Machine Learning Engineer</u> · May 2017 - May 2018</p> <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. <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 ICLR '23, NeurIPS '22, ICML '22, CVPR '22, ICCV '21.
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, Git, Apache Spark, Unity, Apache Beam</p>