Mete Kemertas

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Education

University of Toronto, Vector Institute
PhD · Computer Science · Sep 2020 - Present
· Focus in reinforcement learning.

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

Approximate policy iteration with bisimulation metrics.
M. Kemertas, A. Jepson.
Transactions on Machine Learning Research (TMLR), 2022.

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	· US16/725717 · Feature Scrubbing: Anonymize Images on Home Devices
Patent Applications	· US17/072905 · Coarse-to-fine Multimodal Gallery Search System with Attention-based Neural Network Models · US16/805051 · A Method for Deep Representation Learning · US16/690999 · A System and Method of Batch Size Adaptive Workload Scheduler

Industry Experience

Samsung AI Centre · *Toronto, ON*
PhD Student Researcher (part-time) · Apr 2021 - Sep 2022
Senior Research Engineer · Mar 2020 - Sep 2020
Research Engineer · May 2018 - Mar 2020

· Research in machine learning and vision-language integration.
· Served as technical lead/co-lead for various research projects.
· Multiple publications at leading AI venues.
· 1 patent and 3 pending patent applications.

Tealbook Inc. · *Toronto, ON*
Machine Learning Engineer · May 2017 - May 2018

· 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.

Ormuco Inc. · *Montreal, QC*
Software Developer · May 2016 - Sep 2016

· 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.

Ericsson · *Montreal, QC*
Software Development Intern · May 2015 - Sep 2015

· Participated in the development of a global scale messaging product.

Awards

NSERC CGS D Scholarship, May 2022
Doctoral scholarship for $105,000 awarded to highest-scoring PGS D applicants.
Mitacs Accelerate Grant, May 2017
Awarded funding for $30,000 for an 8-month applied research project.

Community

· Referee for ICLR '23, NeurIPS '22, ICML '22, CVPR '22, ICCV '21.

Prog. Languages

· **Python** (expert)
· **Java, C, C++, C#** (proficient)
· **JavaScript, Swift, MATLAB, R** (prior experience)

Tools

PyTorch, TensorFlow, Git, Apache Spark, Unity, Apache Beam