# 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. 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.

## Patent Applications

· 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

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| Industry Experience | **Samsung AI Centre** · *Toronto, ON*<br>PhD Intern (part-time) · Apr 2021 - Present<br>Senior Research Engineer · Mar 2020 - Sep 2020<br>Research Engineer · May 2018 - Mar 2020<br>· Research in machine learning and vision-language integration.<br>· Served as technical lead/co-lead for various research projects.<br>· Multiple publications at leading AI venues.<br>· 4 patent applications pending.<br><br>**Tealbook Inc.** · *Toronto, ON*<br>Machine Learning Engineer · May 2017 - May 2018<br>· Removed significant data licensing costs by applying machine learning to produce a large database of the world's suppliers.<br>· Designed and developed a recommendation engine for supplier discovery using multimodal representation learning.<br><br>**Ormuco Inc.** · *Montreal, QC*<br>Software Developer · May 2016 - Sep 2016<br>· Developed the backend of a notification and messaging system.<br>· Solved bugs in the backend of a cloud computing platform.<br>· Improved system performance by optimizing database queries and redesigning the caching system on the server side.<br><br>**Ericsson** · *Montreal, QC*<br>Software Development Intern · May 2015 - Sep 2015<br>· Participated in the development of a global scale messaging product. |
| Awards | **Mitacs Accelerate Grant, May 2017**<br>Awarded funding for $30,000 for an 8-month applied research project. |
| Prog. Languages | · **Python** (expert)<br>· **Java, C, C++, C#** (proficient)<br>· **JavaScript, Swift, MATLAB, R** (prior experience) |
| Tools | **PyTorch, TensorFlow, keras, scikit-learn, pandas, Git, Apache Spark, Unity, Apache Beam, Android Studio, neo4j** |