

Work Experience

2024 – Now	<b>Huawei Ireland Research Center</b> (Ireland) <i>Senior AI Researcher</i> <ul style="list-style-type: none"><li>Large language models (LLMs) research and applications.</li></ul>
2022 – 2024	<b>Mila - Quebec AI Institute</b> (Canada) <i>Postdoctoral Fellow</i> <ul style="list-style-type: none"><li>Fairness, robustness, and efficiency in LLMs.</li><li>Mentored 11 Ph.D., 4 M.Sc., and 2 interns.</li><li>Awarded an <i>excellence award</i> for foreign researchers.</li></ul>
Fall 2020 & Fall 2018	<b>NVIDIA</b> (Germany) <i>Research Intern</i> <ul style="list-style-type: none"><li>Compression of deep neural networks.</li><li>Awarded a <i>recognition award</i> for "exceptional and outstanding contributions".</li></ul>

Education

2017 – 2021	<b>Hasso Plattner Institute</b> (Germany) <i>Ph.D. in Artificial Intelligence</i> <ul style="list-style-type: none"><li>Grade: <i>Magna cum laude</i> ("with great distinction")</li><li>Thesis: Diversification, compression, and evaluation methods for generative adversarial nets.</li></ul>
2012 – 2017	<b>Universidade Nova de Lisboa</b> (Portugal) <i>B.Sc. and M.Sc. in Computer Science and Engineering</i> <ul style="list-style-type: none"><li>Grades: <i>A</i></li><li>Thesis: Automated organization and quality analysis of user-generated audio content.</li></ul>

Honors & Awards

2024	<b>Vector fellowship</b> (declined). <i>Vector Institute</i>
2023	<b>Excellence award.</b> <i>Fonds de Recherche du Qu�bec</i>
2021	<b>Honors Ph.D. graduation.</b> <i>Hasso Plattner Institute</i>
2020	<b>Recognition award.</b> <i>NVIDIA</i>
2015	<b>Best final year B.Sc. project.</b> <i>Universidade Nova de Lisboa</i>
2015	<b>First place at hackathon.</b> <i>Universidade Nova de Lisboa</i>

Selected Activities

2022 – Now	<b>Organizer.</b> <i>Hardware-Aware Efficient Training workshop</i> (ICML'22), <i>Conference on Lifelong Learning Agents</i> (CoLLAs'22), <i>CRL Symposium at Mila</i> (2023,2022).
2021 – Now	<b>Reviewer.</b> <i>EMNLP</i> ('23,'21,'20), <i>ACL</i> ('23,'20), <i>EACL</i> '21.
2017 – Now	<b>Speaker.</b> <i>Vector</i> (2024), <i>Mila</i> (2023,2022), <i>MIT</i> (2021), <i>UBC</i> (2021), <i>NVIDIA GTC</i> (2021), <i>SAP TechEd</i> (2017).

Patents

2022	<b>Incorporating a ternary matrix into a neural network.</b> A. Keller, G. Mordido, M. Keirsbilck.
2019	<b>Representing a neural net utilizing paths within the network to improve a performance of the neural net.</b> A. Keller, G. Mordido, N. Gamboa, M. Keirsbilck.

Selected Publications

ICML'24	<b>Lookbehind-SAM: k steps back, 1 step forward.</b> G. Mordido, P. Malviya, A. Baratin, S. Chandar.
ACL'24	<b>Why don't prompt-based fairness metrics correlate?</b> A. Zayed, G. Mordido, I. Baldini, S. Chandar.
AAAI'24	<b>Fairness-aware structured pruning in Transformers.</b> A. Zayed, G. Mordido, S. Shaban., I. Baldini, S. Chandar.
TMLR'24	<b>Promoting exploration in memory-augmented Adam using critical momenta.</b> P. Malviya, G. Mordido, . . . , R. Pascanu, S. Chandar.
COLM'24	<b>Should we attend more or less? Modulating attention for fairness.</b> A. Zayed, G. Mordido, S. Shabanian, S. Chandar.
IEEE TSP'24	<b>Fast and accurate output error estimation for memristor-based deep neural networks.</b> J. Kern, S. Henwood, G. Mordido, . . . , F. Leduc-Primeau.
TMLR'23	<b>Training DNNs resilient to adversarial and random bit-flips by learning quantization ranges.</b> K. Chitsaz, G. Mordido, J. David, F. Leduc-Primeau.
AAAI'23	<b>Deep learning on a healthy data diet: Finding important examples for fairness.</b> A. Zayed, P. Parthasarathi, G. Mordido, . . . , S. Chandar.
CoLLAs'22	<b>Improving meta-learning generalization with activation-based early-stopping.</b> S. Guiroy, C. Pal, G. Mordido, S. Chandar.
Inter-speech'21	<b>Compressing 1D time-channel separable convolutions using sparse random ternary matrices.</b> G. Mordido, M. Keirsbilck, A. Keller.
WACV'21	<b>Assessing image and text generation with topological analysis and fuzzy logic.</b> G. Mordido*, J. Niedermeier*, C. Meinel.
COLING'20	<b>Mark-evaluate: Assessing language generation using population estimation methods.</b> G. Mordido, C. Meinel.
WACV'20	<b>microbatchGAN: Stimulating diversity with multi-adversarial discrimination.</b> G. Mordido, H. Yang, and C. Meinel.
KDD'18 DL Day	<b>Dropout-GAN: Learning from a dynamic ensemble of discriminators.</b> G. Mordido, H. Yang, and C. Meinel.

Teaching

Winter 2022	<b>Neural networks.</b> <i>Guest lecturer, Polytechnique Montreal</i>
Fall 2022	<b>Machine learning.</b> <i>Lead TA, Polytechnique Montreal</i>
2017 – 2020	<b>Deep learning.</b> <i>TA, Hasso Plattner Institute</i>

Selected Skills

Python (PyTorch, TensorFlow, Hugging Face, NumPy), C++