

Gonçalo Mordido

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🌐 <https://goncalomordido.github.io>

🎓 Google Scholar

Work Experience

2022 – Now	Mila - Quebec AI Institute (Canada) <i>Postdoctoral Fellow</i> <ul style="list-style-type: none">Fair, robust, and efficient Transformer models.Mentored a total of 8 Ph.D. and 6 M.Sc. students, and supervised 2 interns.Awarded FRQ's <i>excellence scholarship</i>.
2017 – 2021	Hasso Plattner Institute (Germany) <i>Research Associate & Ph.D. Candidate</i> <ul style="list-style-type: none">Diversification, compression, and evaluation of generative models.Mentored 7 M.Sc. students and 1 intern.Graduated with <i>great distinction</i>.
Fall 2020 Fall 2018	NVIDIA (Germany) <i>Research Intern</i> <ul style="list-style-type: none">Compression of deep neural networks.Awarded a <i>recognition award</i> for "exceptional and outstanding contributions".

Education

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

Honors & Awards

2023	Excellence scholarship. <i>Fonds de Recherche du Québec</i>
2021	Honors Ph.D. graduation. <i>Hasso Plattner Institute</i>
2020	Recognition award. <i>NVIDIA</i>
2015	Best final year B.Sc. project. <i>Universidade Nova de Lisboa</i>

Selected Activities

2022 – Now	Organizer. <i>Hardware-Aware Efficient Training workshop (ICML'22), Conference on Lifelong Learning Agents (CoLLAs'22), CRL Symposium at Mila (2022, 2023).</i>
2017 – Now	Reviewer. <i>EMNLP'23, ACL'23, ICML'22 WS, EMNLP'21, EACL'21, CVPR'21, Knowledge-Based Systems, ACL'20, EMNLP'20, WACV'20, ICIS'19, Neural Comp. & App., IEEE Access, Big Data'17.</i>
2017 – Now	Invited speaker. <i>Vector (2024), Mila (2022, 2023), MIT (2021), NVIDIA GTC (2021), SAP TechEd (2017).</i>

Selected Skills

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

Selected Publications

ICML'24	Lookbehind-SAM: k steps back, 1 step forward. G. Mordido, P. Malviya, A. Baratin, S. Chandar.
ACL'24	Why don't prompt-based fairness metrics correlate? A. Zayed, G. Mordido, I. Baldini, S. Chandar.
AAAI'24	Fairness-aware structured pruning in Transformers. A. Zayed, G. Mordido, S. Shaban., I. Baldini, S. Chandar.
TMLR'24	Promoting exploration in memory-augmented Adam using critical momenta. P. Malviya, G. Mordido, A. Baratin, R. Harikandeh, J. Huang, S. Lacoste-Julien, R. Pascanu, S. Chandar.
IEEE TSP'24	Fast and accurate output error estimation for memristor-based deep neural networks. J. Kern, S. Henwood, G. Mordido, E. Dupraz, A. Bey, Y. Savaria, F. Leduc-Primeau.
TMLR'23	Training DNNs resilient to adversarial and random bit-flips by learning quantization ranges. K. Chitsaz, G. Mordido, J. David, F. Leduc-Primeau.
AAAI'23	Deep learning on a healthy data diet: Finding important examples for fairness. A. Zayed, P. Parthasarathi, G. Mordido, H. Palangi, S. Shabanian, S. Chandar.
CoLLAs'22	Improving meta-learning generalization with activation-based early-stopping. S. Guiroy, C. Pal, G. Mordido, S. Chandar.
Inter-speech'21	Compressing 1D time-channel separable convolutions using sparse random ternary matrices. G. Mordido, M. Keirsbilck, A. Keller.
WACV'21	Assessing image and text generation with topological analysis and fuzzy logic. G. Mordido*, J. Niedermeier*, C. Meinel.
COLING'20	Mark-evaluate: Assessing language generation using population estimation methods. G. Mordido, C. Meinel.
WACV'20	microbatchGAN: Stimulating diversity with multi-adversarial discrimination. G. Mordido, H. Yang, and C. Meinel.
KDD'18 DL Day	Dropout-GAN: Learning from a dynamic ensemble of discriminators. G. Mordido, H. Yang, and C. Meinel.
2022	Incorporating a ternary matrix into a neural network. A. Keller, G. Mordido, M. Keirsbilck.
2019	Representing a neural net utilizing paths within the network to improve a performance of the neural net. A. Keller, G. Mordido, N. Gamboa, M. Keirsbilck.