

# Gonçalo Mordido

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🌐 <https://goncalomordido.github.io>

🐙 [GitHub](#)

🎓 [Scholar](#)

## Work Experience

2022 – Now	<b>Mila - Quebec AI Institute</b> (Canada) <i>Postdoctoral Fellow</i> <ul style="list-style-type: none"><li>Fair, robust, and efficient deep learning.</li><li>Mentored a total of 7 Ph.D. and 6 M.Sc. students, and supervised 2 interns.</li><li>Awarded FRQ's <i>excellence scholarship</i>.</li><li>Advisor: Sarath Chandar</li></ul>
2017 – 2021	<b>Hasso Plattner Institute</b> (Germany) <i>Research Associate &amp; Ph.D. Candidate</i> (4 years) <ul style="list-style-type: none"><li>Diversification, compression, and evaluation of generative models.</li><li>Mentored 7 M.Sc. students and 1 intern.</li><li>Graduated with <i>great distinction</i>.</li><li>Advisor: Christoph Meinel</li></ul>
Fall 2020	<b>NVIDIA</b> (Germany)
Fall 2018	<i>Research Intern</i> (10 months total) <ul style="list-style-type: none"><li>Compression of neural networks.</li><li>Awarded a <i>recognition award</i> for "exceptional and outstanding contributions".</li><li>Host: Alexander Keller</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></li></ul>
2012 – 2017	<b>Universidade Nova de Lisboa</b> (Portugal) <i>B.Sc. and M.Sc. in Computer Engineering</i> <ul style="list-style-type: none"><li>Grades: <i>A</i></li></ul>

## Honors & Awards

2023	<b>Excellence scholarship.</b> <i>Fonds de Recherche du Québec</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>

## Teaching

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

## Patents

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

## Selected Publications

ICML'24	<b>Lookbehind-SAM: k steps back, 1 step forward.</b> <a href="#">G. Mordido</a> , P. Malviya, A. Baratin, S. Chandar
ACL'24	<b>Why don't prompt-based fairness metrics correlate?</b> A. Zayed, <a href="#">G. Mordido</a> , I. Baldini, S. Chandar
AAAI'24	<b>Fairness-aware structured pruning in Transformers.</b> A. Zayed, <a href="#">G. Mordido</a> , S. Shaban., I. Baldini, S. Chandar
IEEE TSP'24	<b>Fast and accurate output error estimation for memristor-based deep neural networks.</b> J. Kern, S. Henwood, <a href="#">G. Mordido</a> , E. Dupraz, A. Bey, Y. Savaria, F. Leduc-Primeau
TMLR'23	<b>Training DNNs resilient to adversarial and random bit-flips by learning quantization ranges.</b> K. Chitsaz, <a href="#">G. Mordido</a> , 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, <a href="#">G. Mordido</a> , H. Palangi, S. Shabani, S. Chandar.
CoLLAs'22	<b>Improving meta-learning generalization with activation-based early-stopping.</b> S. Guioy, C. Pal, <a href="#">G. Mordido</a> , S. Chandar.
Inter-speech'21	<b>Compressing 1D time-channel separable convolutions using sparse random ternary matrices.</b> <a href="#">G. Mordido</a> , M. Keirsbilck, A. Keller.
WACV'21	<b>Assessing image and text generation with topological analysis and fuzzy logic.</b> <a href="#">G. Mordido</a> *, J. Niedermeier*, C. Meinel.
COLING'20	<b>Mark-evaluate: Assessing language generation using population estimation methods.</b> <a href="#">G. Mordido</a> , C. Meinel.
WACV'20	<b>microbatchGAN: Stimulating diversity with multi-adversarial discrimination.</b> <a href="#">G. Mordido</a> , H. Yang, and C. Meinel.

## Selected Activities

2022 – Now	<b>Organizer.</b> <i>Workshop on Hardware-Aware Efficient Training (ICML'22), Conference on Lifelong Learning Agents (CoLLAs'22), Chandar Research Lab Symposium at Mila (CRL'23,22).</i>
2017 – Now	<b>Reviewer.</b> <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. &amp; App., IEEE Access, Big Data'17.</i>
2017 – Now	<b>Invited speaker.</b> <i>Vector Institute (2024), Mila (2023, 2022), MIT (2021), GTC (2021), SAP TechEd (2017).</i>

## Selected Skills

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