

Gonçalo Mordido

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🌐 <https://goncalomordido.github.io>

🐙 [GitHub](#)

🎓 [Scholar](#)

Work Experience

2022 – Now	Mila & Polytechnique Montreal (Canada) <i>Postdoctoral Fellow</i> <ul style="list-style-type: none">Efficient training and inference of deep neural networks [3, 4, 5].Advise 7 Ph.D. students, 4 M.Sc. students, and 1 intern.Lead teaching assistant for 1 course and guest lecturer for 1 course.Advisors: Prof. Sarath Chandar Prof. François Leduc-Primeau
2017 – 2021	Hasso Plattner Institute (Germany) <i>Research Associate</i> (4 years) <ul style="list-style-type: none">Diversification, compression, and evaluation of generative adversarial networks [7, 8, 9].Advised 3 M.Sc. students and 1 intern.Teaching assistant for 5 courses and guest lecturer for 1 course.Graduated with distinction.
2020	NVIDIA (Germany) <i>Research Intern</i> (4 months) <ul style="list-style-type: none">Compression of convolutional neural networks for speech recognition [1, 6].Recognition award for "exceptional and outstanding contributions".
2018 – 2019	NVIDIA (Germany) <i>Research Intern</i> (6 months) <ul style="list-style-type: none">Compression of deep neural networks using Monte Carlo methods [2].
2016 – 2017	NOVA University Lisbon (Portugal) <i>Research Assistant</i> (1 year) <ul style="list-style-type: none">Automated organization and quality analysis of user-generated audio content.

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>Advisor: Prof. Christoph Meinel
2015 – 2017	NOVA University Lisbon (Portugal) <i>M.Sc. in Computer Science Engineering</i> <ul style="list-style-type: none">Grade: AAdvisors: Prof. Sofia Cavaco Prof. João Magalhães
2012 – 2015	NOVA University Lisbon (Portugal) <i>B.Sc. in Computer Science Engineering</i> <ul style="list-style-type: none">Grade: ABest final year project.

Patents

- [1] **Incorporating a ternary matrix into a neural network.**
A. Keller, [G. Mordido](#), M. Keirsbilck. 2022.
- [2] **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. 2019.

Selected Publications

- [3] **Sharpness-aware training for accurate inference on noisy DNN accelerators.**
[G. Mordido](#), S. Chandar, F. Leduc-Primeau. *Under review*
- [4] **Deep learning on a healthy data diet: Finding important examples for fairness and performance.**
A. Zayed, P. Parthasarathi, [G. Mordido](#), H. Palangi, S. Shabani, S. Chandar. *Under review*
- [5] **Improving meta-learning generalization with activation-based early-stopping.**
S. Guioy, C. Pal, [G. Mordido](#), S. Chandar. *CoLLAs'22*
- [6] **Compressing 1D time-channel separable convolutions using sparse random ternary matrices.**
[G. Mordido](#), M. Keirsbilck, A. Keller. *INTERSPEECH'21*
- [7] **Assessing image and text generation with topological analysis and fuzzy logic.**
[G. Mordido](#), J. Niedermeier, C. Meinel. *WACV'21*
- [8] **Mark-Evaluate: Assessing language generation using population estimation methods.**
[G. Mordido](#), C. Meinel. *COLING'20*
- [9] **microbatchGAN: Stimulating diversity with multi-adversarial discrimination.**
[G. Mordido](#), H. Yang, and C. Meinel. *WACV'20*

Selected Talks

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| 2022 | Sharpness-aware training for robust DNNs. <i>Mila</i> |
| 2021 | Compression methods for neural networks. <i>MIT CSAIL</i>
Convolutions by random ternary matrices. <i>GTC'21</i> |

Selected Activities

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| 2022 | Co-organizer. <i>Hardware-Aware Efficient Training</i> workshop at ICML'22, <i>Conference on Lifelong Learning Agents</i> (CoLLAs'22), <i>CRL Symposium</i> . |
| 2017 – 2021 | Reviewer. <i>EMNLP'21</i> , <i>EACL'21</i> , <i>CVPR'21</i> , <i>Knowledge-Based Systems</i> , <i>ACL'20</i> , <i>EMNLP'20</i> , <i>WACV'20</i> , <i>ICIS'19</i> , <i>Neural Computing & Applications</i> , <i>IEEE Access'18</i> , <i>IEEE Big Data'17</i> . |

Selected Skills

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