

Gonçalo Mordido

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🌐 <https://goncalomordido.github.io>

🐙 [GitHub](#)

🎓 [Scholar](#)

Work Experience

- 2022 – Now | **Mila & Polytechnique Montreal** (Canada)
Postdoctoral Fellow
- 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)
Research Associate (4 years)
- 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)
Research Intern (4 months)
- Compression of convolutional neural networks for speech recognition [1, 6].
 - **Recognition award** for "exceptional and outstanding contributions".
 - Manager: Dr. Alexander Keller
- 2018 – 2019 | **NVIDIA** (Germany)
Research Intern (6 months)
- Compression of deep neural networks using Monte Carlo methods [2].
 - Manager: Dr. Alexander Keller
- 2016 – 2017 | **NOVA University Lisbon** (Portugal)
Research Assistant (1 year)
- Automated organization and quality analysis of user-generated audio content.

Education

- 2017 – 2021 | **Hasso Plattner Institute** (Germany)
Ph.D. in Artificial Intelligence
- Grade: *Magna cum laude*
 - Advisor: Prof. Christoph Meinel
- 2015 – 2017 | **NOVA University Lisbon** (Portugal)
M.Sc. in Computer Science Engineering
- Grade: A
 - Advisors: Prof. Sofia Cavaco
Prof. João Magalhães
- 2012 – 2015 | **NOVA University Lisbon** (Portugal)
B.Sc. in Computer Science Engineering
- Grade: A
 - Best 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

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

Selected Activities

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

Selected Skills

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