

# Gonçalo Mordido

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🌐 <https://goncalomordido.github.io>

🐙 [GitHub](#)

🎓 [Scholar](#)

## Work Experience

- 2022 – Now | **Mila & Polytechnique Montreal** (Canada)  
*Postdoctoral Fellow*
- Efficient deep neural network training and inference [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.
  - Pre-selected for FRQ's **merit scholarship**
  - Advisors: Prof. Sarath Chandar  
Prof. François Leduc-Primeau
- 2017 – 2021 | **Hasso Plattner Institute** (Germany)  
*Research Associate* (4 years)
- Diversification, compression, and evaluation of GANs [7, 8, 9].
  - Advised 3 M.Sc. students and 1 intern.
  - Teaching assistant for 5 courses and guest lecturer for 1 course.
  - Graduated with "**great 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*
- Grade: A
  - Advisors: Prof. Sofia Cavaco  
Prof. João Magalhães
- 2012 – 2015 | **NOVA University Lisbon** (Portugal)  
*B.Sc. in Computer Science*
- 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.** *CoLLAs'22 WS, EIW'22, In sub.*  
[G. Mordido](#), S. Chandar, F. Leduc-Primeau.
- [4] | **Deep learning on a healthy data diet: Finding important examples for fairness.** *In submission.*  
A. Zayed, P. Parthasarathi, [G. Mordido](#), H. Palangi, S. Shabani, S. Chandar.
- [5] | **Improving meta-learning generalization with activation-based early-stopping.** *CoLLAs'22*  
S. Guioy, C. Pal, [G. Mordido](#), S. Chandar.
- [6] | **Compressing 1D time-channel separable convolutions using sparse random ternary matrices.** *INTERSPEECH'21*  
[G. Mordido](#), M. Keirsbilck, A. Keller.
- [7] | **Assessing image and text generation with topological analysis and fuzzy logic.** *WACV'21*  
[G. Mordido](#), J. Niedermeier, C. Meinel.
- [8] | **Mark-Evaluate: Assessing language generation using population estimation methods.** *COLING'20*  
[G. Mordido](#), C. Meinel.
- [9] | **microbatchGAN: Stimulating diversity with multi-adversarial discrimination.** *WACV'20*  
[G. Mordido](#), H. Yang, and C. Meinel.

## 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 (ICML'22 WS), Conference on Lifelong Learning Agents (CoLLAs'22), CRL Symposium at Mila.*
- 2017 – 2022 | **Reviewer.** *ICML'22 WS, 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++