

Gonçalo Mordido

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🌐 <https://goncalomordido.github.io>

🐙 [GitHub](#)

🎓 [Scholar](#)

Work Experience

- 2022 – Now | **Mila - Quebec AI Institute** (Canada)
Postdoctoral Fellow
- Efficient methods for deep learning [3, 4, 5].
 - Mentored a total of 7 Ph.D. and 5 M.Sc. students, and supervised 2 interns.
 - Awarded the prestigious FRQ *postdoctoral excellence scholarship*.
 - Advisor: Prof. Sarath Chandar
- 2017 – 2021 | **Hasso Plattner Institute** (Germany)
Research Associate & Ph.D. Candidate (4 years)
- Diversification, compression, and evaluation methods for generative models [7, 8, 9].
 - Mentored 7 M.Sc. students and 1 intern.
 - Graduated with *great distinction*.
 - Advisor: Prof. Christoph Meinel
- Fall 2020 | **NVIDIA** (Germany)
Research Intern (4 months)
- Compression of deep neural networks via random matrices [1, 6].
 - Awarded a *recognition award* for "exceptional and outstanding contributions".
 - Host: Dr. Alexander Keller
- Fall 2018 | **NVIDIA** (Germany)
Research Intern (6 months)
- Compression of deep neural networks via pruning and quantization [2, 10, 11].
 - Host: Dr. Alexander Keller

Education

- 2017 – 2021 | **Hasso Plattner Institute** (Germany)
Ph.D. in Artificial Intelligence
- Grade: *Magna cum laude*
- 2012 – 2017 | **NOVA University Lisbon** (Portugal)
B.Sc. and M.Sc. in Computer Science & Engineering
- Grades: *A*

Honors & Awards

- 2023 | **Postdoc merit scholarship.** *Fonds de Recherche du Québec*
- 2021 | **Honors Ph.D. graduation.** *Hasso Plattner Institute*
- 2020 | **Recognition award.** *NVIDIA*
- 2015 | **Best final year B.Sc. project.** *NOVA University Lisbon*
- 2015 | **First place hackathon winner.** *NOVA University Lisbon*

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 (check Google Scholar for full list)

- [3] **Training DNNs resilient to adversarial and random bit-flips by learning quantization ranges.** *TMLR*
K. Chitsaz, [G. Mordido](#), J. David, F. Leduc-Primeau.
- [4] **Deep learning on a healthy data diet: Finding important examples for fairness.** *AAAI'23*
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. Guiroy, 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.
- [10] **Monte Carlo gradient quantization.** *CVPR'20 WS*
[G. Mordido](#), M. Keirsbilck, A. Keller.
- [11] **Instant quantization of neural networks using Monte Carlo methods.** *NeurIPS'19 WS*
[G. Mordido](#), M. Keirsbilck, A. Keller.

Selected Activities

- 2022 – Now | **Organizer.** *Workshop on Hardware-Aware Efficient Training (ICML'22), Conference on Lifelong Learning Agents (COLLAS'22), Chandar Research Lab Symposium at Mila (CRL'22,23).*
- 2017 – Now | **Reviewer.** *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'18, Big Data'17.*
- 2017 – Now | **Invited speaker.** *Mila (2022, 2023), MIT (2021), UBC (2021), GTC (2021), SAP TechEd (2017).*

Teaching

- Fall 2022 | **Machine Learning.** *Lead TA, Poly MTL*
- Winter 2022 | **Neural Networks.** *Guest Lecturer, Poly MTL*
- 2017 – 2020 | **Deep Learning.** *TA, Hasso Plattner Institute*

Selected Skills

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