

# Gonçalo Mordido

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🌐 <https://goncalomordido.github.io>

🐙 GitHub

🎓 Scholar

## Work Experience

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

## Education

- 2017 – 2021 | **Hasso Plattner Institute** (Germany)  
*Ph.D. in Artificial Intelligence*
- *Grade*: Magna cum laude
- 2012 – 2017 | **Universidade Nova de Lisboa** (Portugal)  
*B.Sc. and M.Sc. in Computer Engineering*
- *Grades*: A

## Honors & Awards

- 2023 | **Excellence 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.** *Universidade Nova de Lisboa*
- 2015 | **First place at hackathon.** *Universidade Nova de Lisboa*

## 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] **Fairness-aware structured pruning in Transformers.**  
*AAAI 2024*  
A. Zayed, [G. Mordido](#), S. Shabaniyan, I. Baldini, S. Chandar
- [4] **Training DNNs resilient to adversarial and random bit-flips by learning quantization ranges.** *TMLR 2023*  
K. Chitsaz, [G. Mordido](#), J. David, F. Leduc-Primeau.
- [5] **Deep learning on a healthy data diet: Finding important examples for fairness.** *AAAI 2023*  
A. Zayed, P. Parthasarathi, [G. Mordido](#), H. Palangi, S. Shabaniyan, S. Chandar.
- [6] **Improving meta-learning generalization with activation-based early-stopping.** *CoLLAs 2022*  
S. Guiroy, C. Pal, [G. Mordido](#), S. Chandar.
- [7] **Compressing 1D time-channel separable convolutions using sparse random ternary matrices.** *Interspeech 2021*  
[G. Mordido](#), M. Keirsbilck, A. Keller.
- [8] **Assessing image and text generation with topological analysis and fuzzy logic.** *WACV 2021*  
[G. Mordido\\*](#), J. Niedermeier\*, C. Meinel.
- [9] **Mark-Evaluate: Assessing language generation using population estimation methods.** *COLING 2020*  
[G. Mordido](#), C. Meinel.
- [10] **microbatchGAN: Stimulating diversity with multi-adversarial discrimination.** *WACV 2020*  
[G. Mordido](#), H. Yang, and C. Meinel.

## 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

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

## Selected Skills

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