Gonçalo Mordido

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Work Experience

2022 – Now | **Mila & Polytechnique Montreal** (Canada)
Postdoctoral Fellow
- Efficient training [3, 5] and inference [4] of deep neural networks.
- 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 [8], compression [2], and evaluation [7] of GANs.
- Advised 3 M.Sc. students and 1 intern.
- Teaching assistant for 5 courses and guest lecturer for 1 course.

2020 | **NVIDIA** (Germany)
Research Intern (4 months)
- Compression of convolutional neural networks for speech recognition [1, 6].
- 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

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*

Honors & Awards

2022 | **Pre-selected for merit scholarship**. *FRQ*

2021 | **Honors Ph.D. graduation**. *Hasso Plattner Institute*

2020 | **Recognition award**. *NVIDIA*

2015 | **Best final year B.Sc. project**. *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

[3] | **Deep learning on a healthy data diet: Finding important examples for fairness.** *AAAI'23*
A. Zayed, P. Parthasarathi, G. Mordido, H. Palangi, S. Shabanian, S. Chandar.

[4] | **Sharpness-aware training for accurate inference on noisy DNN accelerators.** *CoLLAs'22 WS, In submission.*
G. Mordido, S. Chandar, F. Leduc-Primeau.

[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] | **Mark-Evaluate: Assessing language generation using population estimation methods**. *COLING'20*
G. Mordido, C. Meinel.

[8] | **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*
Efficient neural architecture search. *Poly Montreal*

2021 | **Compression methods for neural networks**. *MIT CSAIL*
Convolutions by random ternary matrices. *GTC'21*

Selected Activities

2022 – Now | **Co-organizer**. *Workshop on Hardware-Aware Efficient Training* (ICML'22), *Conference on Lifelong Learning Agents* (CoLLAs'22), *Chandar Research Lab Symposium* at Mila (CRL'22).

2017 – Now | **Reviewer**. *CVPR'23, 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, Big Data'17.*

Selected Skills

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