Gonçalo Mordido

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Work Experience

2022 – Now | **Mila - Quebec AI Institute** (Canada)
Postdoctoral Fellow
- Efficient training [3, 5] and inference [4] methods for deep neural networks.
- Mentored a total of 7 Ph.D. students, 5 M.Sc. students, and 1 intern.
- Awarded FRQ's *postdoc merit scholarship*.
- *Advisors*: Prof. Sarath Chandar
  Prof. François Leduc-Primeau

2017 – 2021 | **Hasso Plattner Institute** (Germany)
Research Associate (3 years and 10 months)
- Diversification [8], compression [2], and evaluation [7] methods for GANs.
- Mentored 7 M.Sc. students and 1 intern.
- Graduated with *great distinction*.
- *Advisor*: Prof. Christoph Meinel

Fall 2020
Fall 2018 | **NVIDIA** (Germany)
Research Intern (10 months total)
- Compression of neural networks [1, 2, 6].
- Received a *recognition award* for "exceptional and outstanding contributions".
- *Manager*: Dr. Alexander Keller

Education

2017 – 2021 | **Hasso Plattner Institute** (Germany)
Ph.D. in Artificial Intelligence
- *Grade*: *Magna cum laude*

2015 – 2017 | **NOVA University Lisbon** (Portugal)
M.Sc. in Computer Science & Engineering
- *Grade*: *A*

2012 – 2015 | **NOVA University Lisbon** (Portugal)
B.Sc. in Computer Science & Engineering
- *Grade*: *A*
- Best final year project.

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 | **1st place hackathon winner**. *NOVA University Lisbon*

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*

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 minimization scaled by outlier normalization for improving DNN generalization and robustness.** *In submission.*
G. Mordido*, S. Henwood*, 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 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**. *ACL'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*.

2017 – Now | **Invited speaker**. *Mila (2022), MIT CSAIL (2021), UBC (2021), GTC (2021), OpenHPI (2021), SAP TechEd (2017)*.

Selected Skills

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