

# Gonalo Mordido

✉ [goncalomordido@gmail.com](mailto:goncalomordido@gmail.com)

🌐 <https://goncalomordido.github.io>

🐙 [GitHub](#)

🎓 [Scholar](#)

## Work Experience

2022 – Now	<b>Mila &amp; Polytechnique Montreal</b> (Canada) <i>Postdoctoral Fellow</i> <ul style="list-style-type: none"><li>Efficient training and inference of deep neural networks [3, 4, 5].</li><li>Advise 7 Ph.D. students, 4 M.Sc. students, and 1 intern.</li><li>Lead teaching assistant for 1 course and guest lecturer for 1 course.</li><li>Pre-selected for FRQ's <b>merit scholarship</b></li><li>Advisors: Prof. Sarath Chandar Prof. Franois Leduc-Primeau</li></ul>
2017 – 2021	<b>Hasso Plattner Institute</b> (Germany) <i>Research Associate</i> (4 years) <ul style="list-style-type: none"><li>Diversification, compression, and evaluation of GANs [7, 8, 9].</li><li>Advised 3 M.Sc. students and 1 intern.</li><li>Teaching assistant for 5 courses and guest lecturer for 1 course.</li><li>Graduated with "<b>great distinction</b>".</li></ul>
2020	<b>NVIDIA</b> (Germany) <i>Research Intern</i> (4 months) <ul style="list-style-type: none"><li>Compression of convolutional neural networks for speech recognition [1, 6].</li><li><b>Recognition award</b> for "exceptional and outstanding contributions".</li><li>Manager: Dr. Alexander Keller</li></ul>
2018 – 2019	<b>NVIDIA</b> (Germany) <i>Research Intern</i> (6 months) <ul style="list-style-type: none"><li>Compression of deep neural networks using Monte Carlo methods [2].</li><li>Manager: Dr. Alexander Keller</li></ul>
2016 – 2017	<b>NOVA University Lisbon</b> (Portugal) <i>Research Assistant</i> (1 year) <ul style="list-style-type: none"><li>Automated organization and quality analysis of user-generated audio content.</li></ul>

## Education

2017 – 2021	<b>Hasso Plattner Institute</b> (Germany) <i>Ph.D. in Artificial Intelligence</i> <ul style="list-style-type: none"><li>Grade: <i>Magna cum laude</i></li><li>Advisor: Prof. Christoph Meinel</li></ul>
2015 – 2017	<b>NOVA University Lisbon</b> (Portugal) <i>M.Sc. in Computer Science</i> <ul style="list-style-type: none"><li>Grade: A</li><li>Advisors: Prof. Sofia Cavaco Prof. Joo Magalhes</li></ul>
2012 – 2015	<b>NOVA University Lisbon</b> (Portugal) <i>B.Sc. in Computer Science</i> <ul style="list-style-type: none"><li>Grade: A</li><li>Best final year project.</li></ul>

## 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.** *Under review*  
[G. Mordido](#), S. Chandar, F. Leduc-Primeau.
- [4] **Deep learning on a healthy data diet: Finding important examples for fairness.** *Under review*  
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

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|------|---|
| 2022 | <b>Sharpness-aware training for robust DNNs.</b> <i>Mila</i>  |
| 2021 | <b>Compression methods for neural networks.</b> <i>MIT CSAIL</i><br><b>Convolutions by random ternary matrices.</b> <i>GTC'21</i> |

## Selected Activities

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|-------------|--|
| 2022        | <b>Co-organizer.</b> <i>Hardware-Aware Efficient Training</i> workshop at ICML'22, <i>Conference on Lifelong Learning Agents</i> (CoLLAs'22), <i>CRL Symposium</i> .   |
| 2017 – 2022 | <b>Reviewer.</b> <i>ICML'22 WS</i> , <i>EMNLP'21</i> , <i>EACL'21</i> , <i>CVPR'21</i> , <i>Knowledge-Based Systems</i> , <i>ACL'20</i> , <i>EMNLP'20</i> , <i>WACV'20</i> , <i>ICIS'19</i> , <i>Neural Computing &amp; Applications</i> , <i>IEEE Access'18</i> , <i>IEEE Big Data'17</i> . |

## Selected Skills

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