## Gonçalo Mordido

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https://goncalomordido.github.io

**G**itHub

2022), MIT (2021), GTC (2021), SAP TechEd (2017).

**Scholar** 

Work Experience		Selected Skills	
2022 – No	<ul> <li>Mila - Quebec AI Institute (Canada)</li> <li>Postdoctoral Fellow</li> <li>Fair, robust, and efficient deep learning.</li> <li>Mentored a total of 7 Ph.D. and 6 M.Sc. students, and supervised 2 interns.</li> <li>Awarded FRQ's excellence scholarship.</li> </ul>	Python (PyTorch, TensorFlow, Hugging Face, NumPy), C++ Selected Publications	
		ICML'24	Lookbehind-SAM: k steps back, 1 step forward.  G. Mordido, P. Malviya, A. Baratin, S. Chandar
2017 20	• Advisor: Sarath Chandar	AAAI'24	Fairness-aware structured pruning in Transformers. A. Zayed, <u>G. Mordido</u> , S. Shaban., I. Baldini, S. Chandar
2017 – 20	<ul> <li>Hasso Plattner Institute (Germany)         Research Associate &amp; Ph.D. Candidate (4 years)         • Diversification, compression, and evaluation of generative models.         • Mentored 7 M.Sc. students and 1 intern.         • Graduated with great distinction.     </li> </ul>	IEEE   TSP'24	Fast and accurate output error estimation for memristor-based deep neural networks.  J. Kern, S. Henwood, G. Mordido, E. Dupraz, Abdeldjalil Bey, Y. Savaria, F. Leduc-Primeau
Fall 20	• Advisor: Christoph Meinel     NVIDIA (Germany)	TMLR'23	Training DNNs resilient to adversarial and random bit-flips by learning quantization ranges. K. Chitsaz, G. Mordido, J. David, F. Leduc-Primeau.
Fall 20	<ul> <li>Research Intern (10 months total)</li> <li>Compression of neural networks.</li> <li>Awarded a recognition award for "exceptional and outstanding contributions".</li> <li>Host: Alexander Keller</li> </ul>	AAAI'23	Deep learning on a healthy data diet: Finding important examples for fairness.  A. Zayed, P. Parthasarathi, <u>G. Mordido</u> , H. Palangi, S. Shabanian, S. Chandar.
<b>Educati</b> 2017 – 20		CoLLAs'22	Improving meta-learning generalization with activation-based early-stopping. S. Guiroy, C. Pal, G. Mordido, S. Chandar.
2012 - 20	.	Inter- speech'21	Compressing 1D time-channel separable convolutions using sparse random ternary matrices. G. Mordido, M. Keirsbilck, A. Keller.
Honors	B.Sc. and M.Sc. in Computer Engineering		Assessing image and text generation with topological analysis and fuzzy logic. G. Mordido*, J. Niedermeier*, C. Meinel.
2021   <b>H</b>	Honors Ph.D. graduation. Hasso Plattner Institute		Mark-evaluate: Assessing language generation using population estimation methods. G. Mordido, C. Meinel.
2020   Recognition award. NVIDIA 2015   Best final year B.Sc. project. Universidade Nova de Lisboa Teaching		WACV'20	microbatchGAN: Stimulating diversity with multi- adversarial discrimination. G. Mordido, H. Yang, and C. Meinel.
Winter 2022   Neural networks. Guest lecturer, Polytechnique MTL		Selected Activities	
Fall 2022   Machine learning. Lead TA, Polytechnique MTL 2017 – 2020   Deep learning. TA, Hasso Plattner Institute  Patents		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'23,22).
2022   Ir	ncorporating a ternary matrix into a neural network Keller, <u>G. Mordido</u> , M. Keirsbilck.	2017 – Now	EACL'21, CVPR'21, Knowledge-Based Systems, ACL'20, EMNLP'20, WACV'20, ICIS'19, Neural Comp. & App.,
	epresenting a neural net utilizing paths within the net- rork to improve a performance of the neural net.	2017 – Now	IEEE Access, Big Data'17.   Invited speaker. Vector Institute (2024), Mila (2023,