Gonçalo Mordido

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Experience

2020 | **NVIDIA** (Berlin, Germany)
Research Intern (4 months)
- Compression of depth-wise separable convolutions in deep neural networks.

2018 – 2019 | **NVIDIA** (Berlin, Germany)
Research Intern (6 months)
- Compression of deep neural networks using Monte Carlo methods.

2016 – 2017 | **NOVA University Lisbon** (Lisbon, Portugal)
Research Assistant (1 year)
- Automated discovery and quality assessment of user-generated content.

Education

2017 – 2021 | **Hasso Plattner Institute** (Potsdam, Germany)
Ph.D. in Machine Learning
- Grade: Magna Cum Laude.
- Thesis: Diversification, compression, and evaluation methods for generative adversarial networks.

2015 – 2017 | **NOVA University Lisbon** (Lisbon, Portugal)
M.Sc. in Computer Science Engineering
- Grade: A.
- Thesis: Automated organization and quality analysis of user-generated audio content.

2012 – 2015 | **NOVA University Lisbon** (Lisbon, Portugal)
B.Sc. in Computer Science Engineering
- Grade: A.

Awards

2020 | **NVIDIA recognition award** for "exceptional and outstanding contributions". NVIDIA.

2015 | **Best bachelor's project**. NOVA University Lisbon.

2015 | **1st place hackathon**. NOVA University Lisbon.

Patents

2020 | **Incorporating a ternary matrix into a neural network**.
A. Keller, G. Mordido, M. Van keirsbilck. Filed.

2019 | **Representing a neural network utilizing paths within the network to improve a performance of the neural network**.
A. Keller, G. Mordido, N. Gamboa, M. Van keirsbilck. US Patent App. 16/352,596.

Publications

2021 **Compressing 1D time-channel separable convolutions using sparse random ternary matrices.**
G. Mordido, M. Keirsbilck, A. Keller. INTERSPEECH 2021.
Evaluating post-training compression in GANs using locality-sensitive hashing.
G. Mordido, H. Yang, C. Meinel. Preprint.
Assessing image and text generation with topological analysis and fuzzy logic.
G. Mordido*, J. Niedermeier*, C. Meinel. WACV 2021.

2020 **Mark-Evaluate: Assessing language generation using population estimation methods**.
G. Mordido, C. Meinel. COLING 2020.
Best student forcing: A simple training mechanism in adversarial language generation.
J. Sauder*, T. Hu*, X. Che, G. Mordido, H. Yang and C. Meinel. LREC 2020.
Monte Carlo gradient quantization.
G. Mordido, M. Keirsbilck, A. Keller. CVPR 2020 EDLCV workshop.
Improving the evaluation of generative models with fuzzy logic.
J. Niedermeier*, G. Mordido* and C. Meinel. AAAI 2020 Meta-Eval workshop.
microbatchGAN: Stimulating diversity with multi-adversarial discrimination.
G. Mordido, H. Yang, and C. Meinel. WACV 2020.

2019 **Instant quantization of neural networks using Monte Carlo methods.**
G. Mordido*, M. Keirsbilck*, A. Keller. NeurIPS 2019 EMC2 workshop.

2018 **Pseudo-ground-truth for adversarial text generation using reinforcement learning**.
J. Sauder, X. Che, G. Mordido, H. Yang and C. Meinel. NeurIPS 2018 Deep RL workshop.
Dropout-GAN: Learning from a dynamic ensemble of discriminators.
G. Mordido, H. Yang, and C. Meinel. KDD 2018 DL'Day.

2017 **Automatic organisation, segmentation, and filtering of user-generated audio content**.
G. Mordido, J. Magalhaes, and S. Cavaco. MMSP 2017.
Automatic organisation and quality analysis of user-generated content with audio fingerprinting.
G. Mordido, J. Magalhaes, and S. Cavaco. EUSIPCO 2017.

Mentoring

2021 **Philipp Hildebrandt**. Master's student, Hasso Plattner Institute.

2020 **Cornelius Hagmeister**. Master's student, Hasso Plattner Institute.

2019 **Julian Niedermeier**. Master's student, Hasso Plattner Institute.

2018 **Jonathan Sauder**. Intern, Hasso Plattner Institute.

Presentations

2021 | **Oral presentation**. INTERSPEECH 2021.
Invited talk. MIT.
Oral presentation. GTC 2021.
Spotlight presentation. WACV 2021.

2020 | **Oral presentation**. COLING 2020.
Spotlight presentation. CVPR 2020 EDLCV workshop.
Spotlight and poster presentation. WACV 2020.
Oral presentation. AAAI 2020 Meta-Eval workshop.

2019 | **Oral and poster presentation**. NeurIPS 2019 EMC2 workshop.

2018 | **Poster presentation** at KDD 2018 DL'Day.

2017 | **Invited talk**. SAP TechEd 2017.
Poster presentation. EUSIPCO 2017.

Academic service

2022 | **Organizing committee**. CoLLAs 2022 (1st conference edition).

2021 | **Reviewer**. EMNLP 2021.
External reviewer. Knowledge-Based Systems.
External reviewer. CVPR 2021.
Reviewer. EACL 2021.

2020 | **Reviewer**. ACL 2020
Reviewer. EMNLP 2020.
Reviewer. WACV 2020.

2019 | **External reviewer**. Neural Computing and Applications.
Reviewer. ICIS 2019.

2018 | **External reviewer**. IEEE Access.

2017 | **External reviewer**. IEEE Big Data 2017.

Teaching

2022 **Neural networks: Architectures and applications** (graduate course, Polytechnique Montreal).
Assignment Editor.

2021 **Clean-IT: Towards sustainable digital technologies** (MOOC, openHPI).
Guest Lecturer.

2020 **Practical applications of deep learning** (graduate course, Hasso Plattner Institute).
Teaching Assistant.

2019 **Machine intelligence with deep learning** (graduate course, Hasso Plattner Institute).
Teaching Assistant.

2018 **Competitive problem solving with deep learning** (graduate course, Hasso Plattner Institute).
Teaching Assistant.

2017 **Machine intelligence with deep learning** (graduate course, Hasso Plattner Institute).
Teaching Assistant.
Natural language generation using GANs (graduate project, Hasso Plattner Institute).
Teaching Assistant.