Bernardo TORRES

PhD Student at Telecom Paris

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EDUCATION

PhD Student
Telecom Paris, Institut Polytechnique de Paris

2023-Present
Palaiseau, France

- Music understanding, source separation and synthesis using hybrid deep learning
- Part of HI-Audio project (Hybrid and Interpretable Deep Neural Audio Machines)

Master M2
ENS Paris-Saclay, MVA (Mathematics, Vision and Learning)

2021-2022
Gif-sur-Yvette, France

- Deep Learning, Artificial Intelligence, Audio and Speech processing, Computer Vision   Highest honors

Engineering degree
Telecom Paris, Institut Polytechnique de Paris

2020-2022
Palaiseau, France

- Signal Processing, Machine Learning, Embedded Systems   GPA: 4.0

Bachelor's Degree in Electrical Engineering
Universidade Federal de Minas Gerais

2016-2022
Belo Horizonte, Brazil

- Electrical, Electronics and Computer Engineering

WORK EXPERIENCE

Research Intern
Sony Computer Science Laboratories

From April 2022 to September 2022
Paris, France

- Research topic: Singing Voice Conversion in a music production context
- Research in Deep generative models, Neural Audio Synthesis, Self-Supervised Learning

Intern
Radix Engineering and Software

From July 2019 to May 2020
Belo Horizonte, Brazil

- Worked with data science and machine learning with a focus in predictive maintenance and anomaly detection
- Trained and deployed models based on statistical quality control and LSTM networks

PROJECTS

Head of electronics
Formula SAE UFMG - *Formula Student Team from Universidade Federal de Minas Gerais (UFMG)*

2018-2019
Belo Horizonte, Brazil

- Lead a group of 8 people in the design, manufacturing and testing of the electrical and electronics subsystems
- Designed, developed and deployed an embedded data acquisition system

Team member - Telemetry and Data
Formula SAE UFMG

2017-2019
Belo Horizonte, Brazil

- Developed a data analysis tool in python
- Designed the team's first telemetry system

SKILLS

Spoken Languages:	Portuguese (native), English (fluent, Cambridge CAE C2), French (fluent), Spanish (B2)
Programming Languages:	Python, C, C++, SQL, SystemVerilog
Software, Platforms:	Git, Linux, LaTeX, Matlab, Microsoft Azure, Solidworks, Pi System, LabView
Other/Interests	Music, Sound synthesis, Electronic Music Production/Mixing, Contemplative Sciences, Meditation