Rodrigo Mira

Personal Data

Based in:	London, UK
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Work Experience

Jun 2022-Sep 2022	Research Intern at **Meta**, focusing on a research project related to my PhD studies.
Mar 2022-Jun 2022	Contingent Worker at **Meta**, extending the work done in my internship.
Aug 2021-Dec 2021	Research Intern at **Meta**, focusing on a research project related to my PhD studies..

Education

Oct 2019-Jan 2023	PhD student at IBUG (Intelligent Behaviour Understanding Group), based in **Imperial College London**. Focused on deep learning applied to audio-visual content.
Feb 2019-Sep 2019	Research assistant at IBUG (Intelligent Behaviour Understanding Group), based in **Imperial College London**
Sep 2017-Sep 2018	MSc in Advanced Computing at **Imperial College London**, focused on Artificial Intelligence Modules: 68.2/100 (Merit) | Individual Project: 75/100 (Distinction) Modules included: Reinforcement Learning, Dynamical Systems and Deep Learning, Advanced Statistical Machine Learning and Pattern Recognition, Logic-based Learning.
Sep 2014-Jul 2017	BSc in Information Systems and Computer Engineering from **Instituto Superior Técnico** | Final Grade Average: 18.0/20 | Two Academic Excellence Diplomas Modules included: Software Engineering, Object Oriented Programming, Artificial Intelligence, Databases, Distributed Systems

Software Skills

Basic Knowledge:	Answer Set Programming (ASP), Wireshark, Assembly, CLisp
Intermediate Knowledge:	Tensorflow, C++, C, Javascript, MySQL, Latex, Shellscript (bash/zsh)
Advanced Knowledge:	Python, Pytorch, Java, Prolog

Research Projects

Spring 2022	Scalable Video-To-Speech Synthesis (Pytorch/Python) - accepted at Interspeech 2022 Implemented a new video-to-speech approach which focuses on efficiently scaling to larger audio-visual datasets. Presented state-of-the-art results in multiple established audio-visual corpora.
Winter 2021	Leveraging Real Talking Faces via Self-Supervision (Pytorch/Python) - accepted at CVPR 2022 Implemented and fine-tuned two self-supervised models (one for video and one for audio) which simultaneously learn from unlabelled data by predicting each other's learned representations.
Winter 2019	Learning Visual Features from Audio (Pytorch/Python) - accepted at Interspeech 2021 Implemented and fine-tuned a self-supervised model which predicts visual representations using audio features as a learning objective.
Spring 2019	Video-To-Speech Synthesis (Pytorch/Python) - accepted at IEEE Trans. Cybernetics Implemented and thoroughly fine-tuned an end-to-end model aiming to translate raw waveform audio from visual speech, based on a Wasserstein GAN (generative adversarial networks) architecture.

Languages

Portuguese:	Native language
English:	Written and Spoken: C2 Level - Certificate of Proficiency in English, Pass at Grade A
Spanish:	Written: Pre-Intermediate, Spoken: Intermediate
German:	Written and Spoken: A2 Level - Humboldt-Institut Intensive Course