

Amanda Duarte

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Education

- 2018 – 2022(exp.) **Ph.D. candidate in Computer Science (Marie Skłodowska-Curie fellow)**, *Barcelona Supercomputer Center / Universitat Politècnica de Catalunya (UPC)*, Barcelona, Spain.
- 2015–2017 **Master's in Computer Engineering**, *Federal University of Rio Grande (FURG)*, Rio Grande, Brazil.
- 2010–2014 **Bachelors Degree in Internet Systems Technology / Systems Analysis**, *Sul-rio-grandense Federal Institute of Education, Science and Technology, Brazil*.

Scholarships and Award

- 2018-2021 **Marie Skłodowska-Curie fellow** INPhINIT – "La Caixa" Doctoral fellowship
- 2017 **Facebook/Caffe2 Research Award** - Facebook Research and Academic Relations Program.
- 2015–2017 **National Agency of Petroleum, Natural Gas and Biofuels (ANP) Scholarship** - Master thesis.
- 2013–2014 **Brazil Community College STEM Program** - Science without Border Scholarship.

Research experience

- Jun – Nov 2021 **École des Ponts ParisTech / University of Cambridge**, *Visiting research student at the IMAGINE group under the supervision of Prof. Gül Varol and Prof. Samuel Albanie.*
- Feb – Jul 2019 **Carnegie Mellon University - CMU**, *Visiting research student at the Language Technologies Institute (LTI) under the supervision of Prof. Florian Metze.*
- Jun – Aug 2018 **Johns Hopkins University - Frederick Jelinek Memorial Summer Workshop (JSALT)**, *Six-week-long research program on Machine Learning for Speech, Language and Computer Vision Technology.*
- Sep 2017–May 2018 **Barcelona Supercomputing Center (BSC) - Universitat Politècnica de Catalunya (UPC)**, *Visiting researcher working on video-audio multi-modal retrieval under supervision of Prof. Jordi Torres.*

Research interests

Computer Vision, Pose Estimation, Sign Language Processing, Multi-modal Learning.

Selected Publications

- A. Duarte, S. Albanie, X. Giro-i-Nieto, G. Varol. *Sign Language Video Retrieval with Free-Form Textual Queries* In Conference on Computer Vision and Pattern Recognition - **CVPR 2022**.
- A. Duarte, S. Palaskar, L. Ventura, D. Ghadiyaram, K. DeHaan, F. Metze, J. Torres, X. Giro-i-Nieto. *How2Sign: A Large-scale Multimodal Dataset for Continuous American Sign Language*. In Conference on Computer Vision and Pattern Recognition - **CVPR 2021**.
- L. Specia, R. Arora, L. Barrault, O. Caglayan, A. Duarte, et al. *Grounded Sequence to Sequence Transduction*. In IEEE Journal of Selected Topics in Signal Processing, 2020. (*Impact factor: 4.9*)
- A. Duarte. *Cross-modal Neural Sign Language Translation*. In 27th ACM International Conference on Multimedia **ACMMM** - Doctoral Symposium, October 2019.
- A. Duarte, et al. *WAV2PIX: Speech-conditioned Face Generation Using Generative Adversarial Network*. In 44th International Conference on Acoustics, Speech, and Signal Processing, **ICASSP 2019**.
- D. Surís, A. Duarte, A. Salvador, J. Torres, X. Giró-i-Nieto. *Cross-modal embeddings for video and audio retrieval*. In **ECCV** Sight and Sound Workshop, 2018.

Open-source projects

- How2Sign Dataset** Lead researcher and creator of a large-scale multimodal dataset for continuous American Sign Language. (Available at: <https://how2sign.github.io/>)
- Speech2Signs** Lead researcher and main developer of the project that aims to automatically translate spoken language (e.g English) into American Sign Language. (More info available at: goo.gl/h7e7Yb).
- TURBID Dataset** Lead researcher and creator of a dataset for underwater image restoration. (Available at: <http://amandaduarte.com.br/turbid>)