

HENRIQUE PIÑEIRO MONTEAGUDO

henrique.pineiro2@unibo.it | henrique.gal |  henriqpm

Firenze, Italy | Santiago de Compostela, Spain

EXPERIENCE

- **Verizon Connect** September 2022 - Present
Data Scientist and PhD Student Firenze, Italy
 - Conducting research inside the data products team, which maintains and develops solutions running on hundreds of thousands of vehicles. Computer vision for ADAS applications. 3D and Bird's Eye View perception from monocular videos.
- **École Polytechnique Fédérale de Lausanne (EPFL)** May 2022 - August 2022
Research Assistant Lausanne, Switzerland
 - Built a background extraction and super resolution pipeline to insert remote participants in TV programs as part of the [AdMiRe](#) EU project. Worked in the Multimedia Signal Processing laboratory under prof. Touradj Ebrahimi.
- **Universidade de Vigo** September 2021 - February 2022
Research Assistant Vigo, Spain
 - Multiple Object Tracking on edge platforms (NVIDIA Jetson) for the [InfraROB](#) EU research project. Worked in the Applied Geotechnologies research group while doing my Master's Thesis.

EDUCATION

- **Università di Bologna** November 2022 - Present
PhD in Computer Science and Engineering Bologna, Italy
 - Funded by the Marie Skłodowska-Curie Actions project [SMARTHEP](#) for real-time data analysis in science and industry.
- **Universities of Vigo, Santiago, A Coruña and Porto** September 2020 - February 2022
MSc in Computer Vision Spain and Portugal
 - One year and a half program with courses on both fundamental and advanced computer vision topics. Average grade: 9.6/10.
- **Universidade de Vigo** September 2016 - September 2020
BSc in Automation Engineering and Industrial Electronics Vigo, Spain
 - Specialization in Automation Engineering.

PUBLICATIONS

A=PUBLISHED ARTICLE, P=PREPRINT

- [A.3] **Henrique Piñeiro Monteagudo**, Leonardo Taccari, Aurel Pjetri, Francesco Sambo, Samuele Salti. [RendBEV: Semantic Novel View Synthesis for Self-Supervised Bird's Eye View Segmentation](#). **Oral** In 2025 IEEE/CVF Winter Conference in Applications of Computer Vision (WACV)).
- [P.1] Aurel Pjetri, Stefano Caprasecca, Leonardo Taccari, Matteo Simoncini, **Henrique Piñeiro Monteagudo**, Walter Wallace, Douglas Coimbra de Andrade, Francesco Sambo, Andrew David Bagdanov. [A New Dataset for Monocular Depth Estimation Under Viewpoint Shifts](#). Presented at ECCV 2024 2nd Workshop on Vision-Centric Autonomous Driving (VCAD).
- [A.2] Andrea Benericetti, Niccolò Bellaccini, **Henrique Piñeiro Monteagudo**, Matteo Simoncini, Francesco Sambo. [An object detection approach for lane change and overtake detection from motion profiles](#). In 2023 IEEE 26th International Conference on Intelligent Transportation Systems (ITSC).
- [A.1] **Henrique Piñeiro Monteagudo**, Rayan Daod Nathoo, Laurent Deillon, Changsheng Gao, and Touradj Ebrahimi. [AI-based telepresence for broadcast applications](#). In *Proc. SPIE 12226, 2022 Applications of Digital Image Processing XLV*, 1222610.

LANGUAGES

- Spanish (Native)
- Galician (Native)
- English (Fluent)
- Italian (Fluent)