



MATTEO BASTICO

PhD Fellow of AI4theSciences
doctoral program.

E: matteo.bastico@gmail.com

P: +39 348 5450545

L: [linkedin.com/in/matteo-bastico](https://www.linkedin.com/in/matteo-bastico)

R: 14 Rue de la Marne, Cachan, 94230,
France

SKILLS

Python (Programming Language)



AI Frameworks (PyTorch)



Computer Vision



Deep Learning / Machine Learning



Web Programming (HTML, CSS, PHP)



Other Programming Languages
(Java, C++, JavaScript)



Git and GitHub



Communication and Teamwork



LANGUAGES

Italian (First language)



English (C1)



Spanish (C1)



French (B1-B2)



Driving license and car owner.

PROFILE

PhD fellow of the Horizon 2020-Marie Skłodowska-Curie Actions-COFUND European program “AI4TheSciences” at Mines Paris – PSL University (Paris, France). My current focus is the application of Deep Learning (DL) and Computer Vision (CV) techniques to medical images for the developing of computer-aided surgery planning based on State-of-The-Art technologies, such as Vision Transformers (ViT), Segment Anything Model (SAM), Convolution Neural Networks (CNNs). Before starting my PhD, I also worked as AI researcher in the medical field. While pursuing my master's degree, I was awarded a scholarship for a Double Master's Degree program between Italy and Spain, conducting a thesis on DL and CV applied to autonomous driving (3D depth completion and object detection).

EXPERIENCE

Artificial Intelligence Researcher | UPM, Madrid, Spain
2021 – 2022

- Involved in international European Union's Horizon 2020 Projects, such as GenoMed4All and PROCare4Life.
- Developed AI model in Python, using PyTorch framework, with medical applications (DNA Analysis, Patient Identification).
- Proactively participated in team works, meetings, business trips, article publications and conferences.

ICT Help Desk Agent | IL GAZZETTINO, Venice, Italy
2018 – 2019

- Troubleshoot and resolved a vast range of hardware, software, and network connectivity problems both remotely and in-place.
- Answered calls, responded to emails, and spoke with clients face-to-face.

Delivery Driver | Pizzeria San Marco, Venice, Italy
2015 – 2019

Front-End Programmer | Valore4IT, Venice, Italy
2014 – 2015

EDUCATION

MSc ICT for Internet and Multimedia cum Laude | University of Padua, Padua, Italy
2018 – 2021 | Final grade: 110/110 cum Laude

MSc Telecommunication Engineering | Universidad Politécnica de Madrid, Madrid, Spain
2019 – 2021 | Final grade (MSc Thesis): 10/10

BSc Information Engineering | University of Padua, Padua, Italy
2015 – 2018 | Final grade: 105/110

High School Diploma in IT | I.T.I.S. C. Zuccante, Venice, Italy
2011 – 2015 | Final grade: 89/100

PUBLICATIONS & WORKS

Most recent publications are listed below, for my complete bibliography please refer to [my Google Scholar](#)

- M. Bastico et al., ‘Coupled Laplacian Eigenmaps for Locally-Aware 3D Rigid Point Cloud Matching’. Accepted at **CVPR 2024**. Pre-print: <https://arxiv.org/abs/2402.17372>
- M. Bastico et al., ‘A Simple and Robust Framework for Cross-Modality Medical Image Segmentation applied to Vision Transformers’, in 2023 IEEE/CVF International Conference on Computer Vision Workshops (ICCVW), Oct. 2023, pp. 4130–4140. doi: 10.1109/ICCVW60793.2023.00446.