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| MATTEO BASTICO  PhD fellow of the Horizon 2020-Marie Skłodowska-Curie Actions-COFUND European program “AI4TheSciences”.  E: matteo.bastico@gmail.com  P: +39 348 5450545  W: [matteo-bastico.github.io](https://matteo-bastico.github.io/)  L: [linkedin.com/in/matteo-bastico](https://linkedin.com/in/matteo-bastico)  R: 14 Rue de la Marne, Cachan, 94230, France  SKILLS  Python (PyTorch, CUDA)  Computer Vision  Deep Learning / Machine Learining  Image Segmentation  Medical Imaging  Point Clouds  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](https://psl.eu/en/research/major-research-projects/european-programs/ai4thesciences-doctoral-program) at Mines Paris – PSL University (Paris, France). My current focus is the application of Deep Learning and Computer Vision techniques to medical images for the developing of computer-aided surgery planning based on State-of-The-Art technologies, such as Vision Transformers, Segment Anything Model, Convolution Neural Networks. 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  AI Research Scientist | 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   * Troubleshot 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.   Front-End Developer | Valore4IT, Venice, Italy  2014 – 2015  EDUCATION  **PhD** in AI and Computer Vision Methods for Medical Imaging and Knee Mechanical Modelling | Mines Paris – PSL University, Paris, France  2012 – 2025 (Expected)  **MSc** ICT for Internet and Multimedia cum Laude | University of Padua, Padua, Italy  2018 – 2021 | Final grade: 110/110 cum Laude  **MSc** Telecommunication Engineering | UPM, Madrid, Spain  2019 – 2021 | Final grade (MSc Thesis): 10/10  **BSc** Information Engineering | University of Padua, Padua, Italy  2015 – 2018 | Final grade: 105/110  TEACHING  **Image Segmentation: From MLP to ViT**  PSL week Machine Learning for Science and Engineering, 2024  **Master’s Students Internship Supervision**  Mines Paris – PSL University & UPM (collaboration), 2024  PUBLICATIONS & WORKS  Most recent publications are listed below, for my complete bibliography please refer to [my Google Scholar](https://scholar.google.com/citations?user=UeV2QhcAAAAJ&hl=en) or [my website](https://matteo-bastico.github.io/publications/).   * M. Bastico et al., ‘Coupled Laplacian Eigenmaps for Locally-Aware 3D Rigid Point Cloud Matching’, **CVPR 2024.** * M. Bastico et al., ‘A Simple and Robust Framework for Cross-Modality Medical Image Segmentation applied to Vision Transformers’, **ICCVW 2023** |