Giulia Rizzoli

Ph.D Student

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Awarded Grants

2024	**Research Grant** from DAAD with ongoing work already resulting in 1 main conference CVPR paper.
2023	**Research Grant**, awarded €7K from Fondazione Aldo Gini for abroad projects.
2023	**Travel Fellowship** for ICCV conference to support diversity and inclusion in the Computer Vision community.
2022 - 2023	**Research Scholarship** during PhD, achieving 1 conference publication, 2 workshops and 2 journals.
2020 - 2021	**Erasmus+ for Studies and Traineeships** spent at RWTH Aachen and Sony as a research intern.

Work Experience

Feb. 2024 - present	**Visiting Researcher**, Technical University of Munich (TUM). 3D Reconstruction and Understanding for Autonomous Driving. Supervisor: Federico Tombari (Google/TUM).
Oct. 2021 - Mar. 2024	**Teaching Assistant**, University of Padova. Enhanced learning experience for 250+ students by leading laboratory sessions, grading 500+ assignments, and providing feedback on academic performance.
Apr. 2021 - Aug. 2021	**Research Intern**, Sony, Stuttgart, Germany. Engaged in cutting-edge research focusing on estimating reflectance from Time-of-Flight cameras. Led experiments in controlled lab settings, acquiring 3D data and analyzing material optical properties. Evaluated methodologies with precision-captured image data, driving advancements in the field.

Education

Oct. 2021 - present	**Ph.D. in Information Engineering**, University of Padova, Department of Information Engineering. Research topic: Multi-modal Scene Understanding. Supervisor: Pietro Zanuttigh
2020 - 2021	**Erasmus+ in Electrical and Communication Engineering**, RWTH Aachen.
2019 - 2021	**M.Sc. in ICT for Internet and Multimedia**, University of Padova. Thesis: Reflectance Estimation using Time-of-Flight cameras. Supervisors: Pietro Zanuttigh, Henrik Schäffer. Grade: 110/110 with honors.
2015 - 2019	**B.Sc. in Information Engineering**, University of Padova. Thesis: Methods for the analysis of heterogeneous biological signals.
2014	**College Exchange**, Kings Colleges, Bournemouth, United Kingdom.

Skills

- Programming: Python, C++, LaTeX, PyTorch, TensorFlow, Git, Singularity, Slurm
- Languages: English (Professional), Italian (Native), German (Elementary)

Selected Publications

Multi-Modal	**CVPR24**, HouseCat6D - A Large-Scale Multi-Modal Category Level 6D Object Pose Dataset with Household Objects in Realistic Scenarios (*Highlight*, 2.8% submissions)
	ICASSP23, DepthFormer: Multimodal Positional Encodings and Cross-Input Attention for Transformer-Based Segmentation Networks
Continual Learning	**ECCV24**, Learning from the Web: Language Drives Weakly-Supervised Incremental Learning for Semantic Segmentation
Domain Adaptation	**WACVW24**, Source-Free Domain Adaptation for RGB-D Semantic Segmentation with Vision Transformers (*Selected for Oral*)
Federated Learning	When Cars meet Drones: Hyperbolic Federated Learning for Source-Free Domain Adaptation in Adverse Weather (Under Review)