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

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)

Continual Learning Learning from the Web: Language Drives Weakly-Supervised Incremental Learning for Semantic Segmentation (Under Review)

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