

Giulia Rizzoli

Ph.D Student

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📄 [Full Publications List](#)

🗣️ [English, Italian](#)

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 - 2024 **Travel Fellowship** for CV conferences 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), Germany.
3D Reconstruction and Understanding for Autonomous Driving. Supervisor: Federico Tombari (Google/TUM).
- Oct. 2021 - **Teaching Assistant**, University of Padova, Italy.
- Mar. 2024 Enhanced learning experience for 250+ students by leading laboratory sessions, grading 500+ assignments, and providing feedback on academic performance.
- Apr. 2021 - **Research Intern**, Sony, Stuttgart, Germany.
- Aug. 2021 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, Germany.
- 2019 - 2021 **M.Sc. in ICT for Internet and Multimedia**, University of Padova, Italy.
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, Italy.
Thesis: Methods for the analysis of heterogeneous biological signals.
- 2014 **College Exchange**, Kings Colleges, Bournemouth, United Kingdom.

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 **WACV25** When Cars meet Drones: Hyperbolic Federated Learning for Source-Free Domain Adaptation in Adverse Weather (*Round 1 acceptance*, 12.1% submissions)

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