

# Remi CHIERCHIA

2 George St, Brisbane City QLD 4000

✉ remi.chierchia@hdr.qut.edu.au 🌐 remichierchia.github.io 🐾 github.com/RemiChierchia

🎓 Google Scholar [in](#) linkedin.com/in/remi-chierchia

## Education

### Queensland University of Technology

Brisbane, Australia

### CSIRO

Canberra, Australia

PhD Candidate

Feb-23 – Feb-27

**Topic:** 3D Wound Surface Reconstruction and Segmentation using Neural Radiance Fields (NeRF) and Gaussian Splatting for Healthcare Applications

### KTH Royal Institute of Technology

Stockholm, Sweden

### University of Trento

Trento, Italy

EIT Digital – Double Master's Degree in Visual Computing Communication – 110 cum laude/110 Sep-20 – June-22

**Thesis:** Sub-frame Synchronisation and Motion Interpolation for Panoramic Video Stitching

**Coursework:** Signal Processing, Computer Vision, Recognition Systems, Image Forensics, Computer Graphics

## Publications

- Chierchia, R., et al. "Wound3DAssist: A Practical Framework for 3D Wound Assessment." *arXiv preprint* (Under Review), 2025.
- Chierchia, R., et al. "SALVE: A 3D Reconstruction Benchmark of Wounds from Consumer-grade Videos." *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, 2025.
- Lebrat, L., et al. "Syn3DWound: A Synthetic 3D Dataset for Wound Bed Analysis." *IEEE International Symposium on Biomedical Imaging (ISBI)*, 2024.
- Full publication list and resources available at: [github.com/RemiChierchia](https://github.com/RemiChierchia)

## Industry Experience

### Tracab

Stockholm, Sweden

Junior Computer Vision Developer - Freelancer

Nov-21 – Nov-22

- Comparison of video encoding standards H264-H265 for systems upgrade.
- FFmpeg and OpenCV to assess the accuracy of qualitative, perceptual, and tracking systems (DLLs building).

## Skills & Interests

- **Programming & Frameworks:** Python, C++, PyTorch.
- **3D Computer Vision & Graphics:** Neural Radiance Fields (NeRFs), Gaussian Splatting, basic graphics pipeline, 3D reconstruction, mesh processing, semantic segmentation.
- **Medical AI Interests:** Focused on healthcare and biomedical AI applications, medical image analysis, integrating 3D reconstruction with augmented reality, AI-driven clinical decision support, and interdisciplinary solutions combining AR and neural rendering.

## Awards & Scholarships

CSIRO Top-Up Scholarship, supporting advanced research collaboration at Australia's national science agency.

## Additional Information

**Achievement:** EIT Digital Master School Scholarship

**Technical skills:** C++, OpenCV, Python, MATLAB

**Language:** Italian (native), English

**Interests:** climbing and mountain sports – applied for the alpine rescue team, football – several years of playing, motorcycles