

Remi CHIERCHIA

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Education

Queensland University of Technology

CSIRO

PhD Candidate

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

Brisbane, Australia

Canberra, Australia

Feb-23 – Feb-27

KTH Royal Institute of Technology

University of Trento

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

Stockholm, Sweden

Trento, Italy

Publications

- Chierchia, R., et al. "Multi-View Consistent Wound Segmentation With Neural Fields." *arXiv preprint* (Accepted to ISBI), 2025.
- 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

Junior Computer Vision Developer - Freelancer

Stockholm, Sweden

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