

Remi CHIERCHIA

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🎓 Google Scholar in linkedin.com/in/remi-chierchia

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. "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

Industry Experience

Tracab

Junior Computer Vision Developer - Freelancer

- 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).

Stockholm, Sweden

Nov-21 – Nov-22

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