

# Remi CHIERCHIA

2 George St, Brisbane City QLD 4000

e-mail: remi.chierchia@hdr.qut.edu.au website: remichierchia.github.io

## Education

**Queensland University of Technology**

**CSIRO**

*PhD Candidate*

**Topic:** 3D Surface Reconstruction, NeRF, Gaussian splatting, Biomedical AI

**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**

**University of Trento**

*Bachelor's Degree in Information and Communications Engineering – 100/110*

**Thesis:** Tennis Player Analysis – Bio-mechanical Model and Computer Analysis

**Coursework:** Signal Processing, Electronics, Electromagnetic Waves, Computer Vision, Statistics/Probability

**Trento, Italy**

Sep-17 – Sep-20

## 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)

**EVCO S.p.a.**

*Electronics Intern*

**Sedico, Italy**

May-16 – July-16

- Spreadsheet softwares and manual duties
- Electronic components soldering and computer tasks

## Projects

**Analysis and Search of Visual Data**

Sep-21 – Oct-21

- Image feature matching, hierarchical tree search, image classification
- SIFT, SURF, TF-IDF, CNN were some of the methods used

**Skeletal Animation**

Nov-20 – Jan-21

- C++ game engine for skeletal animation
- JSON pose information files and OpenGL libraries were used

**Image Forensics lab**

Sep-20 – Nov-20

- Forensic digital watermarking in MATLAB
- Analysis focused on embedding quality and robustness methods

**Mouse and VGA drivers**

June-18 – Nov-18

- VHDL mouse and VGA drivers for FPGA
- The project was developed on a Nexys-4 ddr board

## 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