

Emanuele Palma

 emanuelepalma |  +358 40 184 1732 |  palma.emanuele13@gmail.com |
 emanuelepalma13 |  emanuelepalma.github.io |  0000-0002-3242-3345 |
 Emanuele-Palma | I am an art lover disguised as an engineer |  MSc



Education

 **Tampere University** FIN
DOCTOR OF PHILOSOPHY (PhD) IN COMPUTING AND ELECTRICAL ENGINEERING - EQF LEVEL 8 2018 - In Progress

 **Università degli Studi "Roma Tre"** ITA
MASTER OF SCIENCE (MSc) IN TELECOMMUNICATION ENGINEERING - EQF LEVEL 7 2014 - 2017

 **Università degli Studi "Roma Tre"** ITA
BACHELOR OF SCIENCE (BSc) IN ELECTRONIC ENGINEERING - EQF LEVEL 6 2010 - 2014

Professional Experience

 **Tampere University** Tampere, FIN
RESEARCHER FUNDED BY THE FINNISH FOUNDATION FOR TECHNOLOGICAL PROMOTION (TES) June 2026 - Current

- **Main Activities and Responsibilities:** Research and Development for Light Field Images Lossless Compression and Algorithms and Pipelines, Light Field Image Quality Assessment Algorithms and Subjective Experiments

Image Processing Algorithm Development Python MatLab Image Compression Light Fields Point Clouds
Lossless Compression Near-Lossless Compression Computer Vision Scene Representation JPEG HEVC
Image Quality Quality Metrics Subjective Experiments Quality Assessment Camera Pipeline
Image Signal Processing (ISP) Demosaicing Noise Reduction Color Correction Color Science
Objective Image Quality Metrics Perceptual Quality Modeling PSNR SSIM MS-SSIM VMAF Benchmarking
Linux Version Control (GIT)

 **Detection Technology** Oulu, FIN
RESEARCH SCIENTIST Oct 2022 - Nov 2025

- **Main Activities and Responsibilities:** Data Management and Software Developing for X-Ray Image Processing and Quality Enhancement, Team Scrum Master, Organization and Hosting of Consortium Workshops, Group Meetings and Activities, Representing Company and Team at External events.

X-Ray Imaging Image Processing Image Sharpening Image Compression Algorithm Development Python
Jira Agile Scrum Master Meeting Hosting Meeting Organization Workshop Plannin Excel Word
Power Point

 **FHAIVE - Finnish Hub for Development and Validation of Integrated Approaches at Tampere University** Tampere, FIN
RESEARCH ASSISTANT Jun 2022 - Oct 2022

- **Main Activities and Responsibilities:** Algorithm Design and Implementation for Chemical-Biological Systems Interaction

Image Processing Algorithm Development Python R Data Processing Biomedical Signal Processing
Signal Processing

 **Image Compression Lab at Tampere University** Tampere, FIN
DOCTORAL RESEARCHER Sep 2018 - May 2022

- **Main Activities and Responsibilities:** Research and Development for Light Field Images Lossless Compression Algorithms and Pipelines, Light Field Image Quality Assessment Algorithms and Subjective Experiments

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Lossless Compression Near-Lossless Compression Computer Vision Scene Representation JPEG HEVC
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Linux Version Control (GIT)

- **Main Activities and Responsibilities:** Full pipeline handling (site checking, RF design, quality checking) for the realization of new FWA sites in Italian rural sites.

- **Main Activities and Responsibilities:** Remote operation support in the PSTN Decommissioning project. POTS lines management (deletion and reconfiguration).

GIS RF Simulation Decommissioning Excel Word Power Point

- **Main Activities and Responsibilities:** Level 2 ISO / OSI stack operations management. Network Switches, Routers and VoIP Phones configuration, deployment and maintenance.
- **Additional Responsibilities:** Technical Trainer for Networking and System Analyst courses.

CLI Swtich Configuration VoIP Phones Configuration Power Point

Programme, Events, and Community Operations



MEDI/BIO Spring Research Day Organizer

TAMPERE UNIVERSITY

Tampere, FIN

May 2026

- **Main Activities and Responsibilities:** Supported the planning and delivery of the programme for researchers across the MEDI/BIO and TECH communities. Designed the post-event networking and social activities to encourage interaction among participants and create a more engaging experience beyond the formal research programme. Managed event-day operations, including participant flow, activity transitions and changes in expected attendance. Adapted the programme and practical arrangements in real time as participant numbers changed, helping the events run smoothly and remain engaging for those attending.



TECH Spring Research Day Organizer

TAMPERE UNIVERSITY

Tampere, FIN

May 2026

- **Main Activities and Responsibilities:** Supported the planning and delivery of the programme for researchers across the MEDI/BIO and TECH communities. Designed the post-event networking and social activities to encourage interaction among participants and create a more engaging experience beyond the formal research programme. Managed event-day operations, including participant flow, activity transitions and changes in expected attendance. Adapted the programme and practical arrangements in real time as participant numbers changed, helping the events run smoothly and remain engaging for those attending.



TOMOHEAD Consortium Workshop Organizer

DETECTION TECHNOLOGY

Oulu, FIN

Spring 2025

- **Main Activities and Responsibilities:** Designed the meeting agenda and session schedule for one of the TomoHead European project consortium workshop on behalf of my company Detection Technology, that was hosting the event. I coordinated contributions from partners and presenters. Contacted speakers, confirmed their participation and collected the information and materials required for each session. Chaired the consortium meeting, managing speaker transitions, discussion time and adherence to the programme. Created and organised shared material folders so that partners could access presentations, meeting documents and supporting resources before and after the event. Served as a central coordination point for presenters and participants, helping ensure clear communication and smooth delivery throughout the meeting.

Associations

Sep 2018 - Dec 2021 **PhD Student Member and Student Representative**, European Newtork (H2020) ImmerSAFE

Tampere, FI

Sep 2018 - Present **Student Member**, IEEE Signal Processing Society

Tampere, FI

2019 - 2020 **Student Member**, Joint Picture Experts Group (JPEG) Consortium

Tampere, FI

Certificates

Apr 2026 **Introduction to Scrum Master Profession**, IBM via Coursera

Oct 2025 **Communication as a Technical Leader**, University of Colorado Boulder via Coursera

In Progress **Foundations of Project Management**, Google Career Certificates via Coursera

In Progress **HRCI Talent Acquisition**, HRCI via Coursera

In Progress **Microsoft Project Management**, Microsoft via Coursera

Skills

Languages Italian (Mother Tongue) | English (C1) | Spanish (A2)

Tech Stack Python | MatLab | R | Linux | Windows | macOS | Microsoft 365 Suite | LaTeX | Typst | Image Processing | Image Compression

Soft Skills Scrum Master | Leadership | Event Management | Public Speaking | Public Relations | Team Building | Networking Community building | Stakeholder Engagement | Event and Workshop Coordination | Cross-cultural Collaboration | Structured Communication | Project Coordination

Personal Interests Swimming | Cooking | Reading | Videogames | Electronic Music | Football | Card Games

References

Robert Bregovic Assistant Professor
Computing Sciences
Faculty of Information Technology and Communication Sciences
Tampere University
robert.bregovic@tuni.fi

Alex Winkler Product Manager
Photon Counting Technology
Detection Technology
alex.winkler@deetee.com

Publications

- Palma, E., & Tabus, I. (2022). Near-lossless coding of plenoptic camera sensor images for archiving light field array of views. *2022 Eleventh International Conference on Image Processing Theory, Tools and Applications (IPTA)*, 1–6.
- Palma, E., Battisti, F., Carli, M., Astola, P., & Tabus, I. (2021). Subjective quality evaluation of light field data under coding distortions. *2020 28th European Signal Processing Conference (EUSIPCO)*, 526–530.
- Tabus, I., & Palma, E. (2021b). Lossless archiving view arrays from plenoptic cameras when camera sensor images are available. *2021 International Symposium on Signals, Circuits and Systems (ISSCS)*, 1–4.
- Tabus, I., & Palma, E. (2021a). Lossless compression of plenoptic camera sensor images. *IEEE Access*, 9, 31092–31103.