

Curriculum Vitae: Federico Figari Tomenotti

Personal information



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Personal Page <https://fede1995.github.io/>

Sex Male | Date of birth 14/04/1995 | Nationality Italian



Position preferred: -

Work Experience

November 2023 – Present

RESEARCH FELLOW at *Machine Learning Genoa Center (MaLGA) - Università degli Studi di Genova*

Topics of interests: **Human Motion Forecasting, Graphs Networks, Deep Learning for Weather Forecast**

Master Students supervision: Bouzid I., Piazza A.

Projects: [RAISE](#), Cognitively-inspired architectures for human motion understanding (AFOSR funded)

January 2023 – March 2023

VISITING RESEARCHER at *Imagine Lab at Ecole des Ponts, ParisTech*

Supervisor: prof. [Gul Varol](#)

Main topic: Semantic Action Anticipation and Prediction using deep learning architectures.

2021-2024 Academic Year 2022-23

TEACHING ASSISTANT at *DIBRIS Università degli Studi di Genova, courses:*

- *Advanced Machine Learning, at the Msc in Computer Science (20 hours) - 2022-23, 2023-24*
- *Fondamenti dell'elaborazione di Segnali ed Immagini (Signal and Image Processing), at the Bsc in Computer Science (10 hours) - 2022-23, 2023-24*
- *Fondamenti di Architetture dei Calcolatori (Computer Architecture), at the Bsc in Computer Science (30 hours) - 2023-24*
- *Algoritmi e Strutture Dati (Algorithms and Data Structure), at the Bsc in Computer Science (40 hours) -2021-2022*

July 2020 – November 2020

ICT SOLUTION ARCHITECT PRE-SALES & DELIVERY at *TIM, Gruppo Telecomitalia. - Genova, Italy*

Activities: Full Time, permanent.

Activities: IT Project Engineer focused on Cloud solutions, Cloud design and migration.

Role: Pre-sales design of customised IT solutions.

September 2019 – December 2019

ERASMUS+ RESEARCH INTERNSHIP at *UiT The Arctic University of Norway. - Tromsø, Norway.*

Thesis research: Remote sensing for Earth Observation, deep learning.

Thesis: "*Heterogeneous Change Detection on Remote Sensing Data*".

Activities: problem formulation, code developing and experiments, submission of research paper at IGARSS₂₀₂₀

September 2017

UNDERGRADUATE INTERNSHIP at *OnAir srl, Genoa Italy.*

Activities: Matlab coding for a case study problem on operative research.

Sector: R&D, machine learning, artificial vision, operative research.

Education

November 2020 – May 2024

PHD STUDENT IN MACHINE LEARNING & COMPUTER VISION at *Machine Learning Genoa Center* ([MaLGA](#))

PhD in Computer Science and Systems Engineering at *Università degli Studi di Genova*

Supervisor: prof. Nicoletta Noceti

Main topic: **human motion understanding, and human activity recognition-prediction with cognitive methods.**

Other topics of interest: **graph networks, anticipation, action classification**

Master Students supervision: Mouwad C.

Research Projects involved in: Cognitively-inspired architectures for human motion understanding, [RAISE](#), [StarwayToElders](#)

September 2017 – March 2020

MASTER'S DEGREE IN TELECOMMUNICATIONS ENGINEERING awarded **cum laude (grade 110 lode/110)**

(LM-27): Multimedia and Internet Engineering. *Università degli Studi di Genova.*

Erasmus+ Internship at UiT The Arctic University of Norway.

Thesis: Heterogeneous Change Detection on Remote Sensing Data with Self-Supervised Deep Canonically Correlated Autoencoders ([link to thesis](#))

Main subjects covered in Master:

- Image Processing and Recognition
- Mathematical Methods and Operations Research
- Remote Sensing and Satellite Images
- Array Signal Processing (Underwater Acoustic and Acoustic Imaging)

Extra Modules in Master:

- International Development Cooperation
- Public Speaking: public and business communication

September 2014 – October 2017

BACHELOR'S DEGREE IN ELECTRONICS ENGINEERING awarded **cum laude (grade 110 lode/110)**: (L-8)

Electronics Engineering and Information Technology. *Università degli Studi di Genova.*

September 2016 – December 2016 Erasmus+ at University College Cork, Ireland.

Personal Skills

Languages: **Italian, English (C1, Cambridge Advanced in English Certificate), French** (base user).

Application software: Microsoft Office Suite, Matlab.

Programming languages: Assembly, C, C++, Python (**TensorFlow, Keras, Pytorch**), Matlab,.

Software and Hardware: Arduino (or microcontroller) implementation, Linux user.

Communication: Good communication skills acquired in teamwork in university research projects and working as a private teacher for high-school students.

Organisational skills: Optimal organisational skills acquired planning and organising trips, voyages and activities for groups of 30/50 people as head of volunteers in parish activities. Knowledge of organising my own work, which has always been reflected in my student life scheduling exams and internships, and completing all on time.

Publications

Tomenotti, F. F., Luppino, L. T., Hansen, M. A., Moser, G., & Anfinsen, S. N. (2020). Heterogeneous change detection with self-supervised deep canonically correlated autoencoders. In *IGARSS 2020-2020 IEEE International Geoscience and Remote Sensing Symposium* (pp. 680-683). IEEE. [\[link\]](#)

Cantarini, G., Tomenotti, F. F., Noceti, N., & Odone, F. (2022). HHP-Net: A light Heteroscedastic neural network for Head Pose estimation with uncertainty. In *Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision* (pp. 3521-3530). [\[link\]](#)

Tomenotti, F. F., Noceti, N., & Odone, F. (2024). Head pose estimation with uncertainty and an application to dyadic interaction detection. *Computer Vision and Image Understanding*, vol. 243, 103999. [\[link\]](#)

Conference Presentations

WACV2022 - HHP-Net: A light Heteroscedastic neural network for Head Pose estimation with uncertainty.

Reviewer for:

- Pattern Recognition Journal, Elsevier
 - Transactions on Geoscience and Remote Sensing Journal, IEEE
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Lectures:

2-hour lecture at Maia (Microsoft Artificial Intelligence Academy): "Applications: motion analysis"

Prizes

"Premio Nazionale di Laurea "Eugenio Zilioli" - 16a Edizione (2020)" - Best Italian Master Thesis in Remote Sensing, edition 2020.

Interests and hobbies

Volunteering with homeless and children
Science enthusiast
Green economy lover

Photography and editing
Trekking and sports lover