



Lucrezia Tosato

- 16 July 1998
- Paris, France
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Languages

- Italian
- English
- Spanish
- French

Skills

Programming languages

- Python, MATLAB, C++, Basic of JavaScript and VHDL

Software

- MATLAB, Microsoft Office (Word, Power Point, Excel), DaVinci-Resolve, Photoshop, DevC++, Anaconda, 4NEC2. Basic of Blender, FEKO, Vivado

Charset

- Unicode, \LaTeX .

Most Used Packages

- cv2, tensorflow, torch, PIL, skimage, sklearn, scipy, numpy, pandas, matplotlib, math

Certificates

- IEEE GRSS IADF on "Computer Vision for Earth Observation"
- Scientific integrity in the research profession research
- M1 and S1 of M2 Grades
- EIT Summer School: e-Health: Personalised Prevention
- Academic Transcript and Degree
- Workplace safety certificate
- Participation in Samsung Innovation Camp
- Internship at RSLab
- Public Speaking course
- Team Working course

Education

- 2022–2025 **PhD Candidate in Signal and Image Processing** Université Paris Cité-ONERA Paris, France
Thesis Title: Multi-scale fusion for remote sensing visual question answering
- 2021–2022 **Master Degree in Computer Science** Sorbonne Université Paris, France Mention: Très Bien
Thesis Title: From images to social interactions understanding
- 2020–2021 **Master Degree in Information and Communication Engineering** University of Trento Trento, Italy Final Grade: 110L/110
Thesis Title: From images to social interactions understanding
- 2017–2020 **Bachelor Degree in Information and Communication Engineering** University of Trento Trento, Italy Final Grade: 108/110
Thesis Title: Study of the snowpack backscattering anisotropy in optical data acquired by Sentinel-2 satellites
- 2012–2017 **High School Diploma** Scientific Lyceum Paolo Lioy Vicenza, Italy Final Grade: 83/100

Working Experiences

- Oct 2022–Present **Assistant Professor** Université Paris Cité, Paris
 - Advanced programming
 - Data science
- Feb 2022 – Aug 2022 **Research Intern in Image Analysis** LIP6 and ISIR, Paris
 - Analysis of group interaction and their evolution over time with the aim of studying the F-formations, prediction of the future speaker, tracking of participants.
- July 2021–Sep 2021 **Data Scientist** Gradient0, Wien
 - Use satellite images to classify the quality and quantity of grasslands in Australia
- Sep 2020–Sep-2022 **Tutor** Università degli Studi di Trento, Trento
 - Calculus 1 at Information Engineering and Computer Science
 - Matematics at Economics and Management
- June–July 2019& April–June 2020 **Intern** RSLab, Trento
 - Goal: Find a way to identify snow grain typology by means of satellite Sentinel-2
 - Creation of a program that finds if snow is new, old, wet or dried written in Python and Javascript
 - Use of EO BROWSER, Google Earth Engine&Studio, DaVinci Resolve

Projects

- Nov 2019–Feb 2020 **Participant** Samsung Innovation Camp, Trento
 - Goal: Companies presented us with Project Work to be solved with innovative solutions, we had to integrate university education with innovation and business
- Oct 2018–Jen 2020 **Member** E-Agle Trento Racing Team, Trento
 - Goal: Build an electric car every year, always better, more efficient, safer and then put it in competition with other cars built by other teams from all around the world
 - I dealt with the choice of the technology to use and the purchase and selection of the antennas
 - Creation of plots of the machine performance using Matlab