

Simone Antonelli

Saarbrücken, Germany

siantonelli.github.io/ | [siantonelli](https://www.linkedin.com/company/siantonelli) | [siantonelli](https://www.linkedin.com/company/siantonelli) | [Simone Antonelli](https://www.linkedin.com/company/siantonelli)

Education

CISPA Helmholtz Center for Information Security

Saarbrücken, Germany

Ph.D. in Computer Science

Nov 2022 - Current

- Conducting research on trustworthy machine learning with a focus on graph neural networks (GNNs)
- Advised by Aleksandar Bojchevski

Sapienza University of Rome

Rome, Italy

M.Sc. in Computer Science GPA: **29.23/30**

Dec 2019 - Jan 2022

- Graduated with Distinction
- Successfully completed the excellence program for this degree programme

Sapienza University of Rome

Rome, Italy

B.Sc. in Computer Science GPA: **27.48/30**

Sep 2016 - Dec 2019

- Graduated with Distinction

Research Experience

GLADIA Research Group, Sapienza University of Rome

Rome, Italy

Master's thesis development

Apr 2021 - Jan 2022

- **Title:** *Human-Friendly Interpretation of a 3D Point Clouds Classifier*
- Design and implementation of a novel 3D deep generative framework to reconstruct 3D point clouds via Adversarial Autoencoder
- Explanation of a deep neural model dealing with 3D data (PointNet) through a post-hoc technique to visualize what the artificial neural network has learned

MCLab Research Group, Sapienza University of Rome

Rome, Italy

Bachelor's thesis development

Apr 2019 - Dec 2019

- **Title:** *ModelsTranslator, a translating tool for biological models*
- Analysis, design and development of a translating tool for biological models in several modelling languages to encourage models re-use in the community
- Test analysis and simulation of the translated models

Attended

CMMRS Pre-Doctoral Research School

Remote

Cornell University, Maryland University, Max Planck Institute

Aug 2021

- Admitted upon selection

Machine Learning Summer School 2021 Tapei

Remote

Max Plack Institute

Aug 2021

- Admitted upon selection for the General program

Publications

S. Antonelli, D. Avola, L. Cinque, D. Crisostomi, G. L. Foresti, F. Galasso, M. R. Marini, A. Mecca, and D. Pannone (Sept. 2022). "Few-Shot Object Detection: A Survey". In: *ACM Comput. Surv.* 54.11s. ISSN: 0360-0300. DOI: 10.1145/3519022. URL: <https://doi.org/10.1145/3519022>.

D. Crisostomi, **S. Antonelli**, V. Maiorca, L. Moschella, R. Marin, and E. Rodolà (2022). "Metric Based Few-Shot Graph Classification". In: *The First Learning on Graphs Conference*. URL: <https://openreview.net/forum?id=VBXRmRBfRF>.

Skills

Programming

Python (NumPy, Scikit-learn, Matplotlib, Plotly etc.), C++, Java

Framework

PyTorch, Pytorch Lightning, WandB, Git, Docker

Miscellaneous

MacOS, Linux, Windows, Shell (Bash/Zsh), Slurm, \LaTeX (Overleaf/R Markdown)