

Simone Antonelli

Rome, Italy

🏠 <https://santonelli7.github.io/> | 📧 [santonelli7](#) | 📄 [santonelli7](#) | 📬 Simone Antonelli

Education

Helmholtz Center for Information Security (CISPA)

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 Planck Institute

Aug 2021

- Admitted upon selection for the General program

Skills

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

Framework PyTorch, Pytorch Lightning, WandB, Git

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

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*. DOI: 10.48550/ARXIV.2206.03695. URL: <https://arxiv.org/abs/2206.03695>.

References available upon request.