

Irene Cannistraci

📍 Rome, Italy 🏠✉️🌐📧📱

To know more about me visit <https://irene.cannistraci.dev/>

Research Interests

My research journey has allowed me to explore diverse areas of deep learning, such as time-series analysis and computer vision.

Lately, I've been particularly focused on **representation learning**. I am working on analyzing and understanding when different neural networks generate similar latent spaces, and identifying the class of transformations arising between these latent spaces. This exploration is oriented towards **model re-use** encompassing **diverse modalities** such as **vision**, **text**, and **graphs**.

Education

PhD Student - Computer Science Nov. 2020 - Oct. 2024

Sapienza University of Rome, Italy

Advised by Prof. Rodolà

MSc in Computer Science Sept. 2018 - Oct. 2020

Sapienza University of Rome, Italy

110/110 magna cum laude

BSc in Computer Science Sept. 2013 - Mar. 2017

Sapienza University of Rome, Italy

Work Experience

Teaching Assistant Sept. 2023 - Ongoing

LUISS Guido Carli, Italy

- ▶ Lectured and mentored 40+ students for the **Data Science in Action** MSc course
- ▶ Designed and implemented the course lab sessions

Teaching Assistant Feb. 2023 - Jun. 2023

Sapienza University of Rome, Italy

- ▶ Lectured and mentored 80+ students for the **Deep Learning and Applied AI** MSc course ([link here](#))

Tutor Nov. 2021 - Ongoing

Unitelma Sapienza, Italy

- ▶ Help students learn more about the university and provide an interface between them and the professors

Coding Teacher Nov. 2020 - Dec. 2021

Fondazione Mondo Digitale, Italy

- ▶ Online coding lessons for high-school students for CO.ME.SE (COde&FraME for Self Empowerment) and CodinGirls
- ▶ Role Model for "La Notte dei Ricercatori 2020" and "STEM#4TeenGirls" the Erasmus+ Project for Scuole CEFA

Software Developer Engineer Jun. 2017 - Feb. 2019

NTT Data, Italy

- ▶ Developing multiple software for several international customers such as Enel and Telecom

Honors

Kickstarting Research Funding €1,000 - Nov. 2022

Sapienza University of Rome

2021 Zonta International Women in Technology Scholarship \$8,000 - Mar. 2022

Zonta International

Merit scholarship to cover the entire BSc tuition fees Tuition Fees - Sep. 2013

Sapienza University of Rome

Selected Publications

From Bricks to Bridges: Product of Invariances to Enhance Latent Space Communication

I. Cannistraci Et al.

Spotlight (top 5%) @ ICLR 2024 ([link here](#))

From Charts to Atlas: Merging Latent Spaces into One

D. Crisostomi, I. Cannistraci Et al.

NeurReps @ NeurIPS 2023 ([link here](#))

Bootstrapping Parallel Anchors for Relative Representations

I. Cannistraci Et al.

Tiny Paper @ ICLR 2023 ([link here](#))

Selected Invited Talks

Unifying Representations by Jun. 2022

Infusing Invariances in the Latent Space

Tübingen AI center, Tübingen (Germany)

Communicating between latent spaces Mar. 2023

with limited semantic correspondence

Trento AI Journal Club, Trento (Italy)

Panelist for Women in Data Science (WIDS) Rome Event Jun. 2021

Remote

Real Data Are Often Dirty Data: Problems Jun. 2021

With the Analysis of Large Collections of EHRs

Remote

Hobbies & Interests

- ▶ Outdoor activities (climbing, hiking, mountain biking,..)
- ▶ Cooking vegan recipes
- ▶ Reading books
- ▶ Films and tv series