# Irene Cannistraci

Rome, Italy  🏠 ✉ in 𝕏 ⌥

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 Charts to Atlas: Merging Latent Spaces into One**

*D. Crisostomi, **I. Cannistraci** Et al.*

**NeurReps @ NeurIPS 2023** (link here)

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

***I. Cannistraci** Et al.*

Preprint (link here) & **Oral** at **NeurReps @ NeurIPS 2023**

**Bootstrapping Parallel Anchors for Relative Representations**

***I. Cannistraci** Et al.*

**Tiny Paper @ ICLR 2023** (link here)

## Selected Invited Talks

**Unifying Representations by Infusing Invariances in the Latent Space**          Jun. 2022

*Tübingen AI center, Tübingen (Germany)*

**Communicating between latent spaces with limited semantic correspondence**          Mar. 2023

*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 With the Analysis of Large Collections of EHRs**          Jun. 2021

*Remote*

## Hobbies & Interests

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