

# IRENE CANNISTRACI

## PhD Student in CS | Visiting Researcher @ Helmholtz Munich

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## EDUCATION

- Ph.D. in Computer Science** Nov 2020 - Present  
*Sapienza University of Rome* Rome, Italy  
Part of the GLADIA group, advised by Prof. Emanuele Rodolà [↗](#).
- M.Sc. in Computer Science** Sep 2018 - Oct 2020  
*Sapienza University of Rome* Rome, Italy  
Grade: 110/110 cum laude
- B.Sc. in Computer Science** Sep 2013 - Mar 2017  
*Sapienza University of Rome* Rome, Italy

## EXPERIENCE

- International Research Visit** Feb 2024 - Present  
*Institute of AI for Health, Helmholtz Munich* Munich, Germany  
Working at the intersection of representation learning, geometric deep learning, and topological machine learning in the AIDOS Lab, led by prof. Bastian Rieck [↗](#)
- Teaching Assistant** Sept 2023 - Present  
*LUISS Guido Carli University* Rome, Italy  
Lectured and mentored 40+ students for the **Data Science in Action** MSc course, and designed and implemented the course lab sessions.
- Teaching Assistant** Feb 2023 - Jun 2023  
*Sapienza University of Rome* Rome, Italy  
Lectured and mentored 80+ students for the **Deep Learning and Applied AI** [↗](#) MSc course.
- Software Developer Engineer** Jun 2017 - Feb 2019  
*NTT Data* Rome, Italy  
Developing multiple software for several international customers such as Enel and Telecom.



## SELECTED INVITED TALKS

- From Bricks to Bridges: Product of Invariances to Enhance Latent Space Communication** 29 Feb 2024  
*Helmholtz AI, Helmholtz Munich* Munich, Germany  
Hosted by Prof. Stefan Bauer. Slides here [↗](#)
- Unify Latent Spaces to Reuse Neural Components** 20 Feb 2024  
*Helmholtz AI PhD Seminar, Helmholtz Munich* Munich, Germany  
Slides here [↗](#)
- Unifying Representations by Infusing Invariances in the Latent Space** 22 Jul 2023  
*Tübingen AI center* Tübingen, Germany
- Communicating between latent spaces with limited semantic correspondence** 31 Mar 2022  
*Trento AI Journal Club* Trento, Italy  
Slides here [↗](#)
- Panelist for the Women in Data Science Event** 24 Jun 2021  
*WiDS Rome Event* Virtual



## AWARDS

- ELISE Mobility Program for PhDs** [↗](#)  
Mar 2024  
Travel Grant of **€5,000** for junior researchers in the ELISE/ELLIS network
- G-Research Grant for PhD Students** [↗](#)  
Feb 2024  
Research grant of **£2,000** for PhD students and postdocs in quantitative fields
- Helmholtz Visiting Researcher Grant** [↗](#)  
Feb 2024  
Three months **fully-funded research stay** at the Helmholtz Munich (Apr-Jun)
- Kickstarting Research Funding** [↗](#)  
Nov 2022  
Research grant of **€1,000** for young researchers and Ph.D. students
- Women in Technology Scholarship** [↗](#)  
Mar 2022  
Grant of **US\$8,000** for women of any age and nationality, pursuing an IT degree
- B.Sc. Tuition Fees** 2014-2017  
Sponsored for academic merits by Sapienza to cover **entire B.Sc. tuition fees**

## PROFESSIONAL ACTIVITIES

-  **Reviewer**  
IJCNN 2023; Re-Align@ICLR2023; NeurReps, UniReps, New in ML, WiML @NeurIPS2023; ICIAP 2023; ACM TKDD 2021
-  **Volunteering**  
WiML@NeurIPS2023

## ATTENDED

-  **Conferences**  
NeurIPS 2023, ICML 2023, Lightning DevCon 2022
-  **Summer Schools**  
EEML 2023, MLSSŠ 2023, M2L 2022

## REFEREES

- Prof. Emanuele Rodolà** *ERC grantee*  
Sapienza University of Rome  
@ rodola@di.uniroma1.it

## SELECTED PUBLICATIONS

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### Peer reviewed

- [1] I. Cannistraci, L. Moschella, M. Fumero, V. Maiorca, and E. Rodolà. "From Bricks to Bridges: Product of Invariances to Enhance Latent Space Communication". In: *The Twelfth International Conference on Learning Representations (ICLR 2024, spotlight, top 5%)*. 2024. URL: <https://openreview.net/forum?id=vngVydDWft>.
- [2] I. Cannistraci, L. Moschella, V. Maiorca, M. Fumero, A. Norelli, and E. Rodolà. "Bootstrapping Parallel Anchors for Relative Representations". In: *The First Tiny Papers Track at ICLR 2023, Tiny Papers @ ICLR 2023, Kigali, Rwanda, May 5, 2023*. Ed. by K. Maughan, R. Liu, and T. F. Burns. OpenReview.net, 2023. URL: <https://openreview.net/pdf?id=VBuUL2IW1q>.
- [3] D. Crisostomi, I. Cannistraci, L. Moschella, P. Barbiero, M. Ciccone, P. Liò, and E. Rodolà. "From Charts to Atlas: Merging Latent Spaces into One". In: *NeurIPS 2023 Workshop on Symmetry and Geometry in Neural Representations (NeurReps @ NeurIPS 2023)* (2023). URL: <https://arxiv.org/abs/2311.06547>.

### Preprints

- [4] I. Cannistraci, M. Fumero, L. Moschella, V. Maiorca, and E. Rodolà. "Infusing invariances in neural representations". In: *Extended Abstract, TAG-ML workshop @ ICML 2023* (2023). URL: <https://openreview.net/pdf?id=mCm4iiNoNc>.