🛏 Rome, Italy | 🗷 irenecannistraci@gmail.com | 🏕 irene.cannistraci.dev | 🖸 icannistraci | 🗖 irene-cannistraci | 💆 @ire_cannistraci

Education

Sapienza University of Rome Rome, Italy

Ph.D. IN COMPUTER SCIENCE 2020 - present

• Laboratories: GLADIA (Prof. E.Rodolà) and VisionLab (Prof. D. Avola)

Sapienza University of Rome Rome, Italy

M.S. IN COMPUTER SCIENCE - GRADUATED WITH 110/110 CUM LAUDE

• Thesis: Time-Aware Sequential Deep Learning and Their Application in Healthcare

Sapienza University of Rome Rome, Italy

B.S. IN COMPUTER SCIENCE 2014 - 2017

Experience _____

Teaching Assistant - Data Science in Action

LUISS GUIDO CARLI UNIVERSITY - DEPARTMENT OF BUSINESS AND MANAGEMENT Sept 2023 - present

• Lecturer and mentor for the Data Science in Action course

Teaching Assistant - Deep Learning and Applied AI

SAPIENZA UNIVERSITY OF ROME - DEPARTMENT OF COMPUTER SCIENCE

· Lecturer and mentor for the Deep Learning and Applied AI course

Fondazione Mondo Digitale Rome, Italy Nov 2020 - Dec 2021

· Online coding lessons for high-school students for CO.ME.SE (COde&FraME for Self Empowerment) and CodinGirls Projects.

• Role Model for "La Notte dei Ricercatori 2020" and "STEM#4TeenGirls" the Erasmus+ Project for Scuole CEFA inRome, Bilbao and Prague

NTT Data Rome, Italy

SOFTWARE DEVELOPER ENGINEER Jun 2017 - Feb 2019

· RESTful APIs - Telecom

- Develop a microservices architecture to revise an outdated monolithic platform for messaging. Scalability and high reliability were guaranteed by the Openshift platform, meanwhile real-time tracking and quick troubleshooting by Elasticsearch.
- · Internal Portals (ServiceNow) Enel
 - eProfile: employees use the service to create their profiles, insert their job-related information, and apply to open internal positions.
 - OneClick: employees adopt it to open issue tickets, request devices, software licenses, etc.
 - Global Travel: employees adopt it to insert travel requests.

Awards

Nov. 2022 Avvio alla Ricerca - Sapienza University, Research grant for young researchers and Ph.D. students.

Mar. 2022 2021 Zonta International Women in Technology Scholarship , Zonta International

2014-2017 Lazio DiSCo - Sapienza University, Scholarship for academic merits to fully cover the B.S. tuition fees.

Talks

Invited Talk at "il Futuro Annunciato"

ITALIAN WORKSHOP FOR BACHELOR STUDENTS

Invited Talk at the Artificial Intelligence Trento Journal Club oxdots

COMMUNICATING BETWEEN LATENT SPACES WITH LIMITED SEMANTIC CORRESPONDENCE

Invited Talk at Sapienza School of Advanced Studies (SSAS)

Course of Introduction to programming with Python (Prof. E. Rodolà)

Invited Talk at Sapienza School of Advanced Studies (SSAS)

Course of Introduction to programming with Python (Prof. E. Rodolà)

€1000

2018 - 2020

Rome, Italy

Rome, Italy

Feb 2023 - Jun 2023

Rieti, Italy

Trento, Italy

March 2023

Rome, Italy

Jan 2023

Feb 2022

Invited Panelist for WiDS Rome Event ☑

Women In Data Science Rome Event

Jun 2021

Invited Talk for Data Science Innovation in Diabetes Webinar

Real Data Are Often Dirty Data: Problems With the Analysis of Large Collections of Electronic Health Records Jun 2021

Professional Activities

Tutor

UNITELMA SAPIENZA - COMPUTER SCIENCE DEPARTMENT

Nov 2021 - present

· Help students learn more about the university and provide an interface between them and the professors.

Conference Reviewer

22ND INTERNATIONAL CONFERENCE ON IMAGE ANALYSIS AND PROCESSING (ICIAP)

Jun 2023

Virtual

Journal Reviewer

ACM Transactions on Knowledge Discovery from Data (TKDD)

Oct 2021

Workshop Reviewer

18TH WOMEN IN MACHINE LEARNING WORKSHOP (WIML 2023)

Sen 2023

Collaboration with Sapienza Flight Team

SAPIENZA AEROSPACE STUDENT ASSOCIATION-AIAA STUDENT BRANCH

Dec 2019

Rovereto (TN)

Developing a neural network for object detection and classification for the AUVSI SUAS 2020 Competition.

Scholarships for Conferences _____

Oct 2021 Festival Informatici Senza Frontiere , Aused Fellowship

Sept 2023 BUCA 🗷, BUCA Scholarship	varenna, Lake
och 2020 Dear Controlled on p	Como
Jul 2023 EEML C, EEML Scholarship	Kosice
Jul 2022 Synapse AI Symposium 🗹, Bending Spoons Scholarship	Milan
Jun 2022 Lightning DevCon 🗹, Lightning Scholarship	New York City
Nov 2021 ICAIF'21 🗹, JPMorgan Fellowship	Virtual

Publications

Peer reviewed

[Avo+23] D. Avola, **I. Cannistraci**, M. Cascio, L. Cinque, A. Diko, D. Distante, G. L. Foresti, A. Mecca, and I. Scagnetto. "Real-Time GAN-Based Model for Underwater Image Enhancement". In: *International Conference on Image Analysis and Processing*. Springer. 2023, pp. 412–423.

[Can+23b] I. Cannistraci, L. Moschella, V. Maiorca, M. Fumero, A. Norelli, and E. Rodolà. "Bootstrapping Parallel Anchors for Relative Representations". In: *Tiny Paper Track at ICLR 2023*. 2023. URL: https://openreview.net/pdf?id=VBuUL2IWlq.

[Avo+22] D. Avola, I. Cannistraci, M. Cascio, L. Cinque, A. Diko, A. Fagioli, G. L. Foresti, R. Lanzino, M. Mancini, A. Mecca, and D. Pannone. "A Novel GAN-Based Anomaly Detection and Localization Method for Aerial Video Surveillance at Low Altitude". In: Remote Sensing 14.16 (2022), p. 4110.

Preprints

[Can+23a] I. Cannistraci, M. Fumero, L. Moschella, V. Maiorca, and E. Rodolà. "Infusing invariances in neural representations". In: Extended Abstract at TAG-ML workshop, ICML 2023 (2023). URL: https://openreview.net/pdf?id=mCm4iiNoNc.

[Pra+23] M. Prata, G. Masi, L. Berti, V. Arrigoni, A. Coletta, **I. Cannistraci**, S. Vyetrenko, P. Velardi, and N. Bartolini. "LOB-Based Deep Learning Models for Stock Price Trend Prediction: A Benchmark Study". In: *arXiv* preprint (2023). URL: https://arxiv.org/abs/2308.01915.

[Mar+22] M. Maranghi, A. Anagnostopoulos, **I. Cannistraci**, I. Chatzigiannakis, F. Croce, G. Di Teodoro, M. Gentile, G. Grani, M. Lenzerini, S. Leonardi, et al. "Al-based Data Preparation and Data Analytics in Healthcare: The Case of Diabetes". In: *arXiv preprint arXiv:2206.06182* (2022).