Irene **Cannistraci**

PH.D. STUDENT IN COMPUTER SCIENCE

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Education

Sapienza University of Rome	*Rome, Italy*
PH.D. IN COMPUTER SCIENCE	*Nov 2020 - present*

• Supervisor: Prof. D. Avola (VisionLab)

Sapienza University of Rome	*Rome, Italy*
M.S. IN COMPUTER SCIENCE - GRADUATED WITH 110/110 CUM LAUDE	*Sept 2018 - Oct 2020*

• Thesis: Time-Aware Sequential Deep Learning and Their Application in Healthcare
• Supervisor: Prof. Paola Velardi

Sapienza University of Rome	*Rome, Italy*
B.S. IN COMPUTER SCIENCE	*Sept 2014 - Mar 2017*

Work Experience

Fondazione Mondo Digitale	*Rome, Italy*
COACH	*Jun 2020 - present*

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

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  – Develop a microservices architecture to revise an outdated monolithic platform for messaging.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

Mar. 2022	**2021 Zonta International Women in Technology Scholarship** ⧉, Zonta International	*$8000*
Jan. 2020	**Student-Collaboration Scholarship**, La Sapienza	
2014 - 2017	**Lazio DiSCo Scholarship**, DISCO Lazio - Regional Body for Right to Education and Knowledge	

Talks

Invited Talk at Sapienza School of Advanced Studies (SSAS)	*Virtual*
COURSE OF INTRODUCTION TO PROGRAMMING WITH PYTHON (PROF. E. RODOLÀ)	*Feb 2022*
Invited Panelist for WiDS Rome Event ⧉	*Virtual*
WOMEN IN DATA SCIENCE ROME EVENT	*Jun 2021*
Invited Talk for Data Science Innovation in Diabetes Webinar	*Virtual*
REAL DATA ARE OFTEN DIRTY DATA: PROBLEMS WITH THE ANALYSIS OF LARGE COLLECTIONS OF ELECTRONIC HEALTH RECORDS	*Jun 2021*

Attended Conferences, Summer Schools and Workshops

Jun 2022	**Lightning DevCon** ⧉, Lightning Scholarship	*New York City*
Mar 2022	**GTC 2022** ⧉, AI Developer Conference	*Virtual*
Nov 2021	**DI Doctoral WS 2021** ⧉, Sapienza CS Doctoral Workshop 2021	*Bertinoro (FC)*
Nov 2021	**ICAIF'21** ⧉, JPMorgan Fellowship	*Virtual*
Oct 2021	**Festival Informatici Senza Frontiere** ⧉, Aused Fellowship	*Rovereto (TN)*
Sept 2021	**NoBIAS Summer School 2021** ⧉, Artificial Intelligence without Bias	*Virtual*
Jul 2021	**DeepLearn 2021 Summer** ⧉, 4th International School on Deep Learning	*Virtual*
Apr 2018	**Codemotion** ⧉, Codemotion Rome 2018 Tech Conference	*Rome*

Professional Activities / Academic Service

Technical Program Committee

7TH INTERNATIONAL CONFERENCE ON ADVANCES IN ELECTRONICS ENGINEERING ↗ *present*

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.

Reviewer

ACM TRANSACTIONS ON KNOWLEDGE DISCOVERY FROM DATA (TKDD) - JOURNAL *Oct 2021*

Collaboration with Sapienza Flight Team

SAPIENZA AEROSPACE STUDENT ASSOCIATION-AIAA STUDENT BRANCH *Dec 2019*

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

Projects Selection

A YouTube Player for Everyone *Rome*

UNIVERSITY PROJECT *A.Y. 2019/2020*

• A YouTube player designed and implemented to be accessible by deaf users, combining biometric and multimodal methodologies. Users can log in through a facial identification system, and an emotion recognition algorithm suggests playlists based on their mood. Then the user can interact with the player by using hand gestures and/or voice commands.

BAS2Net *Rome*

UNIVERSITY PROJECT *A.Y. 2019/2020*

• Developing a new model that combines two state-of-the-art works in the Salient Object Detection field (BasNet and Res2Net). The resulting model requires 40% less training time, leading to better results on several datasets. Moreover, the proposed neural network is half the size of the original one.

Cervical Cancer Biopsia Response Classification *Rome*

UNIVERSITY PROJECT *A.Y. 2019/2020*

• Development of several machine learning algorithms to detect cervical cancer based on the Biopsia response, using the Cervical cancer (Risk Factors) dataset.