

# Irene Cannistraci

PH.D. STUDENT IN COMPUTER SCIENCE

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## Education

### Sapienza University of Rome

PH.D. IN COMPUTER SCIENCE

Rome, Italy

Nov 2020 - present

- Supervisor: Prof. D. Avola (VisionLab)
- Co-Supervisor: Prof. E. Rodolà (GLADIA)

### Sapienza University of Rome

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

Rome, Italy

Sept 2018 - Oct 2020

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

### Sapienza University of Rome

B.S. IN COMPUTER SCIENCE

Rome, Italy

Sept 2014 - Mar 2017

## Work Experience

### Fondazione Mondo Digitale

COACH

Rome, Italy

Jun 2020 - present

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

### NTT Data

SOFTWARE DEVELOPER ENGINEER

Rome, Italy

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  - Develop a microservices architecture to revise an outdated monolithic platform for messaging.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 and Scholarship

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

Nov. 2021 **JPMorgan ICAIF Fellowship**, JPMorgan Chase & Co.

Oct. 2021 **Festival Informatici Senza Frontiere Scholarship**, Aused

Jan. 2020 **Student-Collaboration Scholarship**, La Sapienza

Sept. 2014 **Lazio DiSCo Scholarship**, DISCO Lazio - Regional Body for Right to Education and Knowledge

## Projects Selection

### A YouTube Player for Everyone

UNIVERSITY PROJECT

Rome

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

UNIVERSITY PROJECT

Rome

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

UNIVERSITY PROJECT

Rome

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.

## Talks

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### Invited Talk at Sapienza School of Advanced Studies (SSAS)

COURSE OF INTRODUCTION TO PROGRAMMING WITH PYTHON (PROF. E. RODOLÀ)

Virtual

Feb 2022

### Invited Panelist for WiDS Rome Event [↗](#)

WOMEN IN DATA SCIENCE ROME EVENT

Virtual

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

Virtual

Jun 2021

## Attended Conferences, Summer Schools and Workshops

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Mar 2022 **GTC 2022** [↗](#), AI Developer Conference

Virtual

Nov 2021 **DI Doctoral WS 2021** [↗](#), Sapienza CS Doctoral Workshop 2021

Bertinoro

Nov 2021 **ICAIF'21** [↗](#), 3rd ACM International Conference on AI in Finance

Virtual

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

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### Tutor

UNITELMA SAPIENZA

Nov 2021 - present

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

### Reviewer for

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.