

# Dr. Nicolò Brandizzi

PhD student at Sapienza university of Rome.  
Researching Reinforcement Learning tied to Natural Language

“Follow the gradient”



## CONTACTS

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📍 Rome, Italy  
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🐦 @nicofirst1  
🌐 Nicolò Brandizzi  
📅 17/01/1995

## SKILLS

### Programming

Python	●●●●●●
Bash	●●●●●●
LaTeX	●●●●●●
Matlab	●●●●●●
C++	●●●●●●
HTML/CSS	●●●●●●

### Frameworks

Numpy	●●●●●●
Pytorch	●●●●●●
Tensorflow	●●●●●●
OpenCV	●●●●●●

### Operating Systems

MacOS	●●●●●●
Linux	●●●●●●
Windows	●●●●●●

### Languages

Italian	Native
English	C1
Spanish	A1

## ACHIEVEMENTS, HONOURS AND AWARDS

- 🏆 First classified for Ph.D. scholarship at Sapienza University of Rome, Italy.
- 🏆 Spotlight paper in Adaptive and Learning Agents Workshop [ALA21] at AAMAS.
- 🏆 Winner of a research scholarship (bando per avvio di ricerca) at Sapienza University of Rome, Italy.
- 🏆 Elected as a member of the council of department (consiglio di dipartimento) at DIAG, Sapienza University of Rome.
- 🏆 Elected as the PhD Representative of my faculty.

## ACADEMIC CAREER

### Teaching Assistant

- 02/2020 - 12/2021 - Tecniche di Programmazione
- 02/2020 - 12/2021 - Seminars in Artificial Intelligence
- 12/2021 - Ongoing - Tecniche di Programmazione

### Supervised Master Students

- Francesco Frattolillo: Adaptive Playing and Opponent Modeling in Competitive Games
- Abdolhadi Rezaei: Hand Gesture and Voice Recognition on RaspberryPi
- Luca Faraoni: Multi agent model based reinforcement learning

### Other

- 01/07/2021 - 31/08/2021 - Contratto di prestazione occasionale : technical report on “Multi agent model based reinforcement learning”

## RESEARCH INTERESTS

Deep Reinforcement Learning [DRL]


Deep Neural Networks [DNN]

Vision model

Emergent Communication [Emcomm]

Natural Language Processing [NLP]

RLupus: Cooperation through emergent communication in The Werewolf social deduction game

 **N. Brandizzi**, D. Grossi, L. Iocchi

 2021       *Intelligenza Artificiale*, vol. 15, no. 2, pp. 55-70

 [ADS](#), [arXiv](#)

## ABOUT ME

### Martial Arts enthusiast

- Muay Thai: 4 years
- Krav Maga: 2 years
- Taekwondo: 1 year

### Cat lover

- His name is Sky(net)
- Dogs are ok too

### RPG aficionado

- Dungeon & Dragons
- Call of Cthulhu
- Hades
- Skyrim

### Music is life

- Playing Drums
- Chill with Reggae
- Focus on Melodic metal
- Dance to ElectroSwing

### My favorite reads

- The Witcher saga is a must
- Not afraid of Freud
- Manga collector



## EDUCATION



2020 - Ongoing



Sapienza University of Rome, Italy

### PhD Engineering in Computer Science

- **Research Group:** I am part of the [Ro.Co.Co.](#) lab at [DIAG](#) (Dipartimento di Ingegneria informatica, automatica e gestionale). My supervisor is [Luca locchi](#).
- **PhD representative:** I was elected for the academic year that lasts from November 2021 to October 2022.
- **Member of the Department Council:** I was elected for the academics years that last from June 2021 to November 2023.



2018 - 2020



Sapienza University of Rome, Italy

### M.Sc. of Engineering in Artificial Intelligence and Robotics

- **GPA:** 4/4 (110/110)
- **M.Sc. Thesis:** "Reinforcement Lupus: Cooperation through emergent communication in The Werewolf social deduction game", under supervision of Prof. Luca locchi.
- **10 months Erasmus:** University of Groningen, Netherlands.



2015 - 2017



Sapienza University of Rome, Italy

### B.Sc. of Computer and Autonomous System Engineering

- **GPA:** 2.97/4 (101/110)
- **B.Sc. Thesis:** "Comparison Between Segmentation Methods", under supervision of Prof. Luigi Freda.
- **Internship at Alcor Lab:** under supervision of Prof. Fiora Pirri.

## ⇌ ONGOING EXPERIENCES

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📅 03/2022 - Ongoing 📍 Amsterdam, Netherlands

### Scientific visit at UvA

I have been accepted as a scientific visitor at Amsterdam university under the supervision of [Raquel Fernández](#)

📅 11/2021 - Ongoing 📍 Rome, Italy

### Member of ADI association (Associazione dottorandi in Italia)

I am a volunteer at ADI which helps doctoral student around Italy.

📅 11/2021 - 10/2022 📍 Rome, Italy

### PhD student representative

I was elected as the PhD representative of my faculty.

📅 06/2021 - Ongoing 📍 Rome, Italy

### Member of the Department Council, DIAG, Sapienza University

I was elected as a member of the Department Council where I know attend to organization matters.

📅 04/2018 - Ongoing 📍 Rome, Italy

### Rotaract Club RTMM partner (socio)

I'm an active member of the club, mainly working as an informatic consultant. Check out our [website!](#)

## ← PAST EXPERIENCES

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📅 03/2021 - 03/2022 📍 Rome, Italy

### Erasmus Student Network [ESN] partner (socio)

I help with the overall organization events as well as connecting with incoming Erasmus students.

📅 06/2017 - 06/2018 📍 Rotaract Club RTMM, Rome, Italy

### President of the Internal Commission

During this 12 months period I was responsible for the internal coordination between members and the organization of social events.

📅 09/2017 - 06/2018 📍 Sapienza University, Rome, Italy

### Internship at Alcor Lab

- Worked as an inter on the European research project [TRADR](#).
- Took part in the last review meet in Mestre, Italy.

📅 06/2014 - 09/2013 📍 California, San Francisco

### Summer school camp

I attended an English course for the duration of 3 months.

📅 06/2013 - 09/2013 📍 California, Santa Barbara

### Summer school camp at UCSB

I followed college classes for 3 months.

📅 06/2012 - 09/2012 📍 California, Los Angeles

### Summer school camp at UCLA

I followed college classes for 3 months.