

# Dr. Nicolo' Brandizzi

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

Follow the gradient



## Contacts

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in Nicolò Brandizzi

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🏠 <https://nicofirst1.github.io>

## Skills

### Programming

Python ★★★★★

Bash ★★★★★

Latex ★★★★★

Matlab ★★★★★

C++ ★★★★★

HTML/CSS ★★★★★

### Frameworks

NumPy ★★★★★

Pytorch ★★★★★

Tensorflow ★★★★★

OpenCV ★★★★★

### Operating Systems

Linux ★★★★★

## Education

📅 2015 -- 2017

📍 Sapienza University of Rome, Italy

**B.Sc. of Computer and System Engineering with a track in Autonomous Systems:**

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

📅 2018 -- 2020

📍 Sapienza University of Rome, Italy

**M.Sc. of Engineering in Artificial Intelligence and Robotics:**

- **GPA:** 4/4
- **M.Sc. Thesis:** "Reinforcement Lupus: Cooperation through emergent communication in The Werewolf social

MacOs ★★★★★

Windows ★★★★★

## Topics

Reinforcement Learning ★★★★★

Deep Neural Networks ★★★★★

Vision Models ★★★★★

NLP ★★★★★

## Languages

Italian ★★★★★

English ★★★★★

Spanish ★★★★★

deduction game", under supervision of Prof.

Luca Iocchi

- **10 months Erasmus:** in University of Groningen, Netherlands.

📅 2020 -- Ongoing

📍 Sapienza University of Rome, Italy

**Ph.D. in Artificial Intelligence**

## ⚙️ Research Interests

- Deep Neural Networks [DNN]
- Reinforcement Learning [RL] and Deep RL: PPO , Self-Play
- Emergent Communication [Emcomm] with RL: EGG, Concrete Distribution , Gumbel Softmax
- Vision model: ResNet , Yolo , VGG
- Natural Language Processing [NLP]: LSTM, Attention , BERT

## 📅 Publication

**Incoming**

## 🏠 Experiences

## About me

### Martial Arts enthusiast

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

### 🐱 Cat lover

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

📅 2017 -- 2018

📍 Rotaract Club RTMM, Rome, Italy

### President of the Internal Commission

📅 2017 -- 2018

📍 Sapienza University, Rome, Italy

### Internship at Alcor Lab

- Worked on the European research project TRADR
- Took part in the last review meet in Mestre, Italy

📅 2014 📍 California, San Francisco

### Summer school camp

📅 2013

📍 University of California, Santa Barbara

### Summer school camp

📅 2012

📍 University of California, Los Angeles

### Summer school camp

### RPG aficionado

- Dungeon & Dragons
- Call of Cthulhu
- Fallout 3/NewVegas
- Skyrim

### Music is life

- Playing Drums
- Chill with Reggae
- Focus on Melodic metal
- Dance to ElectroSwing
- [My Spotify](#)

### Living many lives

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