# Dr. Nicolo' 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
- in Nicolò Brandizzi
- **4** 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 occasinale : technical report on "Multi agent model based reinforcement learning"

#### **C**\* RESEARCH INTERESTS

Deep Reinforcement Learning [DRL]

Deep Neural Networks [DNN]

Vision model | Emergent Communication [Emcomm]

Natural Language Processing [NLP]

## EDUCATION

2020 - Ongoing

Sapienza University of Rome, Italy

### **PhD** Engineering in Computer Science

- o 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.
- o PhD representative: I was elected for the academic year that lasts from November 2021 to October 2022.
- o 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

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

**#** 2015 - 2017

Sapienza University of Rome, Italy

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

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

## ABOUT ME

#### **Martial Arts enthusiast**

o Muay Thai: 4 years

o Krav Maga: 2 years

## o Taekwondo: 1 year

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

Cat lover

#### **RPG** aficionado

- o Dungeon & Dragons
- o Call of Cthulhu
- Hedes
- o Skyrim

#### Music is life

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

## My favorite reads

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

#### ONGOING EXPERIENCES

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.

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.

Erasmus Student Network [ESN] partner (socio)

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

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

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 **Q** Sapienza University, Rome, Italy

Internship at Alcor Lab

- Worked as an inter on the European research project TRADR.
- o Took part in the last review meet in Mestre, Italy.

Summer school camp

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

Summer school camp at UCSB

I followed college classes for 3 months.

Summer school camp at UCLA

I followed college classes for 3 months.