



PAOLO UMBERTO AGLIATI

Student

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Work Experience

2023 - ongoing

Research Internship - "Artificial Cognitive Systems" group

Collaboration between the Donders institute and the Max Planck Institute to explore the biophysical bases of working memory using spiking neural networks (Python, PyTorch, NEST)

2022

Research Internship - "IMCN"

- Developing hierarchical Bayesian models in a reinforcement learning framework to study value-based risky decision making in humans (R)
- Poster presentation for the "Joint Deep Brain Meeting", OBA Forum, Amsterdam
- Symposium presentation and project report for IMCN

2021 - ongoing

Growth advisor - musr.app

- Optimising user acquisition and retention for musr.app, a web app that matches users based on their Spotify listening habits
- Around 600 monthly active users in the beta test phase

2020

Research Internship - "Rita Levi Montalcini"

- Took part in a project at the "Rita Levi Montalcini" Neuroscience lab (Milan), studying the mechanisms of neurodegeneration in Parkinson's Disease
- Employed in vitro models of astrocytes, primary neuronal cultures, and behavioral experiments in mice
- Literature research on PD biomarkers

2018 - 2020

Social media advisor

- Sided the social media manager for the creation of editorial plans, as well as community strategy and monetization
- Indiependenti: the biggest indie-music community in Italy (300k flws)
- Il Superuovo: one of the most influential school-related communities (1mln flws)
- Daddy Conte: Satiric page popular during the first COVID19 lockdown (40k flws)

Education

2021- ongoing

Universiteit van Amsterdam

Master's degree - Brain and cognitive sciences (Behavioural neuroscience track)

2017 - 2021

Università Milano Bicocca

Bachelor's degree - Biotechnology

2011 - 2016

Liceo Scientifico G. Galilei (Erba)

Scientific High school Diploma - Applied sciences track

Academic Experience

- 2022 - ongoing, **Literature Thesis**
Brain-inspired memory implementation in reinforcement learning
- 2022, **Project - Neural dynamics and Deep learning**
Investigations in working memory using a large-scale model of the macaque neocortex (Python, Matlab)
- 2022, **Visit at the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig**
Lectures, lab tours and workshops
- 2022, **Neuromatch Conference**

- 2022, **Summer School - Computation in consciousness and perception**
Workshops and poster presentation: Predictive coding for binocular rivalry

- 2021, **Visit at the Donders Institute for Neuroscience, Nijmegen**
Lectures, lab tours and workshops

- 2021, **Amsterdam Neuroscience Annual Meeting**
Essay on poster: Enhancement of contextual fear memory by interference with astrocyte-synapse structural plasticity
- 2020, **Literature Thesis**
Development of a 3D model for sporadic Parkinson's disease G2019S-LRRK2 using midbrain organoids

Languages



Italiano
(Native)



English
(C2)



Nederlands
(Project)

Skills



Office365

LaTeX

Python

R

Hobbies



I am an eager researcher of new genres and sperimentations, I have played the bass guitar since I was 13 years old.



Papers and online courses from neurobiochemistry to machine learning accompany me in my extracurricular life.

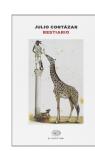


I write poems, short stories and general considerations for myself and for the few friends who are patient enough to read them.

Favorite books



J. Monod -
Chance and
Necessity



J. Cortázar -
Bestiary



R. Cialdini -
Influence:
Science and
Practice