ORESTE AFFATATO

Researcher in Neuroscience and Scientific Methods

@ o.affatato@gmail.com
OresteAffatato

Uppsala, Sweden 0000-0001-5775-0185

oresteaffatato.github.io

in oresteaffatato



I am a passionate scientist that works on understanding the reasons why we get sick.

EDUCATION

Ph.D. degree in Medicine - Neuroscience

Uppsala University

☐ June 2024

Uppsala, Sweden

Thesis: "Beating of hammers"

I investigated the pathophysiology of migraine and depression, using many approaches, from physiology to occupational epidemiology. During my doctoral studies, I read mostly courses in neuroscience, mental health, epidemiology and statistics

M.Sc. in Physics

University of Milan

Milan, Italy

Thesis: "Survival of early replicators under transient compartmentalization"

I specialized in theoretical physics, mathematical physics and mathematical modelling applied to biology

B.Sc. in Physics

University of Milan-Bicocca

☐ July 2017

Milan, Italy

Thesis: "Nonlinear field equations: symmetries and solitons" I read standard Bachelor courses in physics and mathematics. I took elective courses in theoretical physics, mathematical physics and numerical analysis

RESEARCH EXPERIENCE

Ph.D. studies

Uppsala University

☐ September 2020 - September 2024 **Uppsala**, Sweden

- Estimating associations between migraine and depression and brain morphology (structural MRI)
- Meta-research on pharmacological treatment efficacy in patients with migraine and comorbid depressive symptoms
- Job-related risk factors for migraine

TEACHING EXPERIENCE

Program in Biomedicine

Uppsala University

2021 - 2023

EXPERTISE

Neuroscience Neurology Psychiatry
Psychology Epidemiology
Causal Inference Bayesian Methods
Statistics Applied Mathematics

STRENGHTS

Programming (R, Python, Matlab, LATEX)

Mathematical modelling

Statistical Analysis | Study Design

Microsoft Office

Project Management Problem Solving

Active Listening | Critical Thinking

Teamwork Independece Motivation

Positive Attitude | Public Speaking

Research Collaboration | Self Learning

Knowledge Sharing

LANGUAGES

"Alle volte uno si crede incompleto ed è soltanto giovane." - Italo Calvino

"I measured out my life with coffee spoons." - Thomas Stearns Eliot

"Eu tinha a grande saúde de não perceber coisa nenhuma." - Álvaro de Campos

"Los espejos y la cópula son abominables porque multiplican el número de los hombres." - Jorge Luis Borges

"Döden är vindstilla." - Thomas Tranströmer

- Statistics, mathematical modelling and basic R programming
- Co-supervision of Bachelor's thesis projects

Medical Program Uppsala University

2021 - 2023

· Journal clubs, seminars on psychiatry and neurology

PUBLICATIONS

Journal Articles

- S. L. Muataz, J. Mwinyi, **O. Affatato**, *et al.*, "Exploring sex differences: Insights into gene expression, neuroanatomy, neurochemistry, cognition, and pathology," *Frontiers in Neuroscience*, vol. 18, 2024. DOI: 10.3389/fnins.2024.1340108.
- O. Affatato, A. Dahlén, G. Rukh, H. Schiöth, and J. Mwinyi, "Assessing volumetric brain differences in migraine and depression patients: A uk biobank study," *BMC Neurology*, vol. 23, 2023. DOI: https://doi.org/10.1186/s12883-023-03336-x.
- **O.** Affatato, G. Rukh, H. Schiöth, and J. Mwinyi, "Volumetric differences in cerebellum and brainstem in patients with migraine: A uk biobank study," *Biomedicines*, vol. 11, 2023. DOI: https://doi.org/10.3390/biomedicines11092528.
- O. Affatato, M. M, S. HB, and M. J., "Major sex differences in migraine prevalence among occupational categories: A cross-sectional study using uk biobank," *Journal of Headache and Pain*, vol. 4, 2021. DOI: 10. 1186/s10194-021-01356-x.
- **O. Affatato**, M. TC, P. C, *et al.*, "High efficacy of onabotulinumtoxina treatment in patients with comorbid migraine and depression: A meta-analysis," *J Transl Med*, vol. 19, 2021. DOI: 10.1186/s12967-021-02801-w.
- F. Cabral, **O. Affatato**, M. de Oliveira, and C. Dias, "Modelagem matemática e computacional no crescimento do glioblastoma multiforme," *Brazilian Journal of Development*, vol. 6, 2020. DOI: 10.34117/bjdv6n3-096.

GRANTS AND AWARDS

- Sederholm, Nordic travel scholarships (2024)
- Busoli Gian Carlo and Birgit grant (2022)

RELEVANT EXPERIENCE

- Guest Researcher at NTNU: Research conducted as visiting PhD student in January 2024 at the Norwegian University of Science and Technology (NTNU) in Trondheim. Supervisors: prof. Leif Edward Ottesen Kennair and prof. Thomas Haarklau Kleppestø, department of Psychology (Sederholm, Nordic travel scholarships).
- European Educational Programme in Epidemiology: 35th Residential 3-week Summer Course in Epidemiology 2022 in Fiesole (Italy) biostatistics and epidemiology training (Busoli Gian Carlo and Birgit grant).
- International Summer school in functional pharmacology 2022 FAT4BRAIN: Teacher in the workshop on statistics and data visualization with R Latvian Institute of Organic Synthesis, Rīga (Latvia).
- Erasmus studies: One year (academic year 2018/2019) as an Erasmus+ Student at the University of Coimbra (Portugal).

SCIENCE OUTREACH

Science Fika

Stadsbiblioteket i Uppsala

I am a co-founder, Board member and one of the main activists of Science Fika. This association promotes science popularization through public talks at the City Library of Uppsala (Sweden). We invite researchers with different backgrounds to give public talks to disseminate knowledge and passion for scientific inquiry.

Website: Science Fika

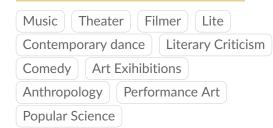
OPEN SCIENCE

More on my research projects and teaching materials (such as R scripts and supplementary information) can be found on my GitHub page: OresteAffatato

REFEREES

Available upon request

INTERESTS



HOBBIES

Playing piano	Reading	Running
Swimming Martial Arts		

ABOUT ME

A thirst for knowledge is the major driving force of my life. I delve into any subject with the utmost passion and drive, from the classics of world's literature, to the theories of space and time, and to the traits in our body that make us vulnerable to diseases. Ideas, perspectives and methods from different fields helped me immensely in framing research questions and in finding diverse ways to address them. Cultivating interest in a wide range of disciplines is for me a major resource for thinking outside the box, and growing as a scientist and as a person.

Moreover, I believe that knowledge has an immense transformative power and for this reason I am also a passionate educator. I put a great effort in my teaching activities both inside and outside the academic environment. My aim is to discuss ideas, challenge points of view, foster curiosity and ignite passion for scientific inquiry. Ultimately, I believe that our research, our knowledge, should be used to transform our society in a better version of itself. And better for everyone.