

# Federico Palmisani

I am a Lecturer in Neuroscience at the University of Exeter, with a background in education research and clinical practice. In the Faculty of Health and Life Sciences, I lead modules on data analysis, coding for medical scientists, and cognitive neuroscience across the BSc and MSc Neuroscience, Medical Science, and BMBS programmes.

My academic interests include cognitive and developmental neuroscience, with a particular focus on language, executive functions, and learning disabilities. I am currently involved in multiple research projects, including studies on math anxiety, belonging in neuroscience, and generative AI in higher education.

In my previous role as a SaLT in ASO SS Antonio, Biagio and Cesare Arrigo (Alessandria, Italy), I have led the fluency disorder branch of paediatric rehabilitation.

## Education

### **MSc, Science of Mind and Body**

University of Turin Italy,  
Sep 2020 – Jul 2022

### **BSc, Psychology**

University of  
Genova, Italy,  
Sep 2017- Jul 2020

### **BSc, Speech and Language Therapy**

University of  
Genova, Italy,  
Sep 2013 - Sep 2016

## **FHEA**

### **PhD By Publication**

To be submitted by March  
2025.

## Skills

- EBM methodologies in clinic
- Fluency Disorders specialiser
- Experimental designs and research quality developer
- Learning disabilities specialist
- Counseling and wellbeing
- Project manager in healthcare system
- Coding: R, RStudio, Matlab, SPSS
- Planning & research
- Problem solver.
- Multi-tasking & governance

## Languages

- Italian, native
- English, fluent
- Spanish, intermediate

## Work Experiences

### Teaching and Academic

#### **Lecturer in Neuroscience (E&S)**

University of Exeter October  
2022 – present

- I am currently Module Lead for CSC2020 Coding for Medical Scientists, where I teach data analysis and research methods in cognitive neuroscience and medical sciences, with biomedical datasets.
- Moreover, I am leading the NEU2003, Introduction to Cognitive Neuroscience module, and I am deputy lead in NEU3025 and co-lead in NEU3003 (Psychology applied to Health)
- I teach in the cellular and molecular neuroscience module in the MSc Neuroscience, where I developed a series of lectures and Masterclasses around cognitive neuroscience of Language and Communication
- Among other duties, I facilitate Journal Clubs, Tutorial Sessions, Small Group Learning Sessions, workshops and seminars.
- I am also involved in the following modules:
  - NEU2019 Neuropharmacology – developing, lecturing, and marking.
  - NEU1006 Introduction to Neuroscience – lecturing and marking.
  - NEU3008 Frontiers in Neuroscience – facilitating.
  - NEU2018 Neural Circuit – lecturing and marking.
  - CSC1005 Integrated Human Physiology – lecturing in neurophysiology, facilitating, delivering consolidation sessions and workshops.
  - CSC3021 Rehabilitation Science – Lecturing SEMS and Medical Sciences students
- Currently Director of EDI in the Clinical and Biomedical Sciences Department and member of the Exeter Brain Network – EDI steering group
- SpeakOut Guardian for the University of Exeter.

#### **Final year project co-lead**

University of Pavia (Italy)  
October 2019 – September 2021

Here, I co-led final year projects on developmental psychology and neuropsychological rehabilitation carried out in pediatric departments.

## Personal Interests

- Media & technology
- Psychology & wellbeing
- Photography
- Language and Communication Disorders

## Clinical Experience

### **Italian National Health Care System – IRFI Hospital of Alessandria**

Speech and Language Therapist and Researcher in Neuropsychology  
June 2020 – September 2022

- I worked with functional observation and treatment of neuropsychological impairment involving language, working memory capacity and attention, alongside a team of experts involved in pediatric care.
- A substantial part of the job consisted in assessing and treating several speech, language, and executive functioning disorders, such as:
  - Autism Spectrum Disorder.
  - Stuttering and stammering children and adults.
  - Learning disabilities.
  - Childhood apraxia of speech.
  - Speech and language disorders.
- I strategically analysed and implemented treatment plans, verifying the achievement of the settled goals.
- After a few month in the position, I was invited to lead the sector of rehabilitation concerning fluency disorders.

## Research and Pedagogy

- I created and managed several research projects, using computational software for data analysis, including MatLab, SPSS, Python and Rstudio.
- I selected candidates and recruited people for my research projects among other professionals and university students.
- After review, I achieved the core project objectives, including:
  - Completed several research projects, leading to publications.
  - Created networks between different specialists involved in childhood healthcare.
  - Provided an efficient “diagnosis pathway” for learning impairment, accordingly with Italian Guidelines.

### **Latest Publications**

- Palmisani F, Segelcke D, Vollert J. *Navigating the light and shadow of scientific publishing faced with machine learning and generative AI*. Eur J Pain. 2024 Oct 3. doi: 10.1002/ejp.4736. Epub ahead of print. PMID: 39360710
- Loprete S., Palmisani F., Santoro GM (2023). *Cognitive Control and Executive Function. A functional review in Cognitive Neuroscience*. BrainFactor Italy
- Palmisani, F., Stefanini, C., Baldovino, L., & Loprete, S. (2022). *The effects of covid-19 pandemic and Distance Learning on reading skills in typical readers children*. Effetti di Lettura / Effects of Reading, 1(2), 5–14. <https://doi.org/10.7347/EdL-02-2022-01..>
- Loprete, S., Palmisani, F., Modafferi, C., Passarelli, M., Santoro, G.M. (2021) *Reading comprehension and executive attention deficits*. DIS Vol. 3pp. 323-340 doi: 10.14605/DIS232103
- DiMatteo, R., Palmisani, F., Migliaccio, A., Barberis, E., Ferretti, F., (2021) *Management of an aphasic-apraxic patient during the Covid-19 pandemic: a casereport*. ISSN: 2279-9761

### **Fellowship in HEA**

I received my fellowship in Higher Education Academy and I am working towards my Senior Fellowship. As a result of my previous application, members of the PRP team at the University of Exeter invited me to become mentor and assessor in the ASPIRE framework

### **Education Incubator Fellow**

I have terminated my previous Education Incubator Fellowship, aiming to investigate the impact of Numeracy Anxiety (Stats and Coding) in the Clinical and Biomedical Sciences department at Exeter University.

In 2024/2025 I have successfully secured funding for the second consecutive year as Education Incubator Fellow, this time implementing the co-creation (students and academics) of a feed-forward/feed-back mechanism in the Neuroscience programme.