

Federica Tili

Bachelor's degree in Psychological Sciences and Techniques and Master's degree in Psychobiology and Cognitive Neuroscience

Current Employment



May 2024 -
October 2024

Post-graduate Professional Internship in Psychology

[CNR \(National Research Council\)](#)

Field(s) of study: **Neuroscience and Neuropsychology**

Structuring and conducting cognitive neuroscience studies using EEG, EMG and TMS techniques.

Contributing to study design, data collection, analysis, and literature review.

Language Skills

Italian Mother tongue
English B2

Digital Skills

Microsoft Office Advanced

Matlab Intermediate
R Intermediate
BORIS Intermediate
NeuroExplorer Basic
JavaScript Basic
PsychoPy Basic

Contact Info

 federica.tili@studenti.unipr.it

 [linkedin.com/in/federica-tili](https://www.linkedin.com/in/federica-tili)

Academic Studies



September 2021
- March 2024

Master's Degree (2nd-Level Degree) Psychobiology and Cognitive Neuroscience (LM-51)

[University of Parma](#)

Field(s) of study: **Psychobiology and Cognitive Neuroscience**

Research thesis in Psychobiology:

The neural activity of the macaque motor cortex during spontaneous walking: A neuroethological investigation

<https://hdl.handle.net/1889/5620>

Supervisor: **Prof. Luca Bonini**

Final grade: **110/110 cum laude** (Level in EQF: 7)



September 2018
- July 2021

Bachelor's Degree (1st-Level Degree) Psychological Sciences and Techniques (L-24)

[University of Urbino 'Carlo Bo'](#)

Field(s) of study: **Psychology**

Research thesis in Psychometrics:

Developmental Evaluation of Naming (DEN): A pilot study for the structuring of a new online naming test

Supervisor: **Prof. Manuela Berlingeri**

Final grade: **108/110** (Level in EQF: 6)

Experience



Post-graduate Professional Internship in Psychology

[CNR \(National Research Council\)](#)

May 2024 - ongoing

- Gaining expertise in conducting cognitive neuroscience studies using behavioral and neurophysiological methods (EEG, EMG, TMS).
- Contributing to study design and methodology selection.
- Collecting and analyzing comprehensive behavioral and neurophysiological data.
- Performing data analysis and statistical evaluations.
- Conducting extensive literature research relevant to the field.



Undergraduate Internship and Research Thesis in Laboratory of Neuroethology of Non-Human Primates

[BoniniLab - University of Parma](#)

July 2023 - March 2024

- Participated in experiments involving training and neurophysiological recordings in freely moving macaques.
- Explored cortical motor and premotor area activity through chronic electrophysiological methods.
- Maintained, calibrated, and managed recording instruments.
- Analyzed data using specialized software (e.g., BORIS, Matlab, NeuroExplorer).
- Collaborated with interdisciplinary teams to enhance research outcomes.
- Documented experimental procedures and wrote detailed reports.
- Followed ethical and safety standards in experimentation.
- Troubleshoot technical problems related to equipment.
- Communicated results through scientific presentations and discussions.
- Observed surgeries for electrode implantation to record cortical activity.
- Participated in professional development through courses and seminars.



Research Thesis in Developmental Neuropsychology

Clinical Developmental Neuropsychology Center, Pesaro ([ASUR Marche](#))

September 2020 - July 2021

- Designed and planned pilot studies in developmental neuropsychology.
- Specialized in psychometrics, developing psychological measurement tools and analyzing data.
- Designed an online tele-diagnostic test, enhancing skills in digital tools (e.g., JavaScript, PsychoPy).
- Conducted statistical analyses using R.
- Explored challenges in psychological assessment during developmental stages.
- Communicated effectively with patients and families during test administration.



Undergraduate Internship in Developmental Neuropsychology Clinical Developmental Neuropsychology Center, Pesaro ([ASUR Marche](#))

September 2020 - February 2021

- Actively observed the neuropsychological assessment process in developmental age.
- Acquired skills in evaluating neurodevelopmental disorders, with a focus on specific language impairment (SLI), specific learning disorders (SLD), and related conditions.
- Collaborated with professionals to discuss cases and participated in the planning and implementation of intervention strategies.
- Developed practical skills in the use and management of neuropsychological tools and tests for assessment (e.g., WISC-IV, NEPSY-II, BVN 5-11, BVN 12-18, Tower of London, Raven's Progressive Matrices, Rey-Osterrieth Complex Figure Test).
- Participated in training sessions and kept up-to-date with research in developmental neuropsychology.
- Gained communication skills for interacting with children and families during assessments and therapeutic interventions.

Conferences and Congress



Poster Co-Author

SfN Neuroscience 2024, 5-9 October 2024

Sini R., Albertini D., Lanzarini F., Tili F., Maranesi M., Bonini L.: "From walking to reaching: single neuron and population dynamics in monkey lateral frontal cortex"



Poster Co-Author

SINP Congress 2022, 18-19 November 2022

Travellini S., Cerasetti M., Tili F., Lazzaretti A., Gori A., Marcelli A., Vernice M., Berlingeri M.: "Una nuova prova di denominazione lessicale online: costruzione e valutazione della sostenibilità del test «DEN» nella fascia 24-35 mesi"



Poster Co-Author

XVII Giornate di Neuropsicologia dell'Età Evolutiva 2022, 19-22 January 2022

Travellini S., Cerasetti M., Tili F., Lazzaretti A., Gori A., Marcelli A., Vernice M., Berlingeri M.: "Studio di fattibilità per la proposta della nuova prova online di denominazione lessicale «DEN» nella fascia dei 2 anni"



Poster Co-Author

Giornate CLASTA 2021, XI Edition, 14-15 May 2021

Travellini S., Cerasetti M., Tili F., Lazzaretti A., Gori A., Vernice M., Berlingeri M.: "DEN – Studio pilota per la realizzazione di nuova prova di denominazione lessicale online"
[Award "Best Poster"](#)

Certifications



Training Course on Animal Experimentation Specific to NHPs

University of Parma

December 2023

Completed the II edition of the specialized training course outlined in Article 23, paragraph 2, of Italian Legislative Decree No. 26/2014 (DM 5 August 2021), focusing on both theoretical and practical aspects of working with non-human primates (NHPs). The course included:

- National and International Legislation
- Ethics, Animal Welfare, and the 3Rs (Replacement, Reduction, Refinement)
- Basic Biology of NHPs
- Care, Health, and Management of NHPs
- Recognizing Pain, Suffering, and Distress in NHPs
- Humanitarian Methods for Euthanasia of NHPs
- Minimally Invasive Procedures Without Anesthesia in NHPs
- Design of Procedures and Research Projects

Practical training involved supervised work at the University's animal facility, focusing on NHP care and experimental procedures, conducted from September to December 2023, under certified personnel specializing in NHP welfare.



Differential Diagnosis and Biopsychosocial Approach in the Management of Urogenital and Pelvic Pain

Code: 362427 - Edition No. 1

U.P.A.I.Nu.C Srls

January 2023

- Provided advanced insights into the intersection of psychological, social, and biological aspects of pain.
- Enhanced the ability to support patients with complex pain conditions.



Workplace Safety Training

University of Parma

March 2022

- Understanding of Legislative Decree No. 81/08 regulations
- Proficiency in hazard identification and risk assessment
- Knowledge of emergency procedures and protocols
- Ability to promote and maintain a safe work environment

Networks and Affiliations



International Society of Neuroethology ([ISN](#))

Member from April 2024

I authorize the processing of my personal data contained in the CV pursuant to Article 13 of Legislative Decree No. 196 of 30 June 2003 - 'Personal Data Protection Code' and Article 13 of GDPR 679/16 - 'European Regulation on the Protection of Personal Data'.

Parma, 16/10/2024