CURRICULUM VITAE – Ugo Giulio Pesci

Current Position

PhD Student in Cognitive Social and Affective Neuroscience (CoSAN) at Sapienza University (Rome) and Santa Lucia Foundation (Rome)- Social Neuroscience Laboratory (AgliotiLab).

Contacts

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04/07/1996 | Nationality: Italian
Via Marsica, 29, 04011 Aprilia (Lt) (Italy)
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Languages

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Italian: native
English: C1 (CAE Certificate)
French: A2 (Basics)

Skills

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Coding and Software:
- Matlab; Fieldtrip; EEGLab; SPM (EEG Analysis);
- Eprime (Experimental Paradigm preparation);
- VirtualDub (Video Editor);
- Statistica (Statistical Analysis);
- JASP software (Statistical Analysis);
- Microsoft Package (generic).

Communication:

- Very good communication skills for academic purposes
Gained through assignments during my Master degree courses, periods of study abroad and attending international seminars and conferences;

- Excellent communication skills in both formal and non-formal environments
gained through both my experience as a Basketball Coach and as a Professional Educator.

Organisation and managing:

- Excellent managing and leadership skills
gained during my University career thanks to many responsibilities I have been invested of and various group works I have attended.

Education

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09/2018 – 07/2020 | **MSc in Cognitive Neuroscience**
Sapienza University of Rome, Rome (Italy)

Graduation Mark: 110/110 *cum Laude*
Final thesis: «Behavioral and EEG correlates associated to action observation and monitoring in a minimally interactive scenario».
Supervised by: Prof. Matteo Candidi, PhD; Dr. Quentin Moreau, PhD.

Practical skills

- Matlab coding and analysis (SPM; Fieldtrip; Psychtoolbox); hands-on experimental activities; group works and presentations; participation in lab experiments.

09/2015 - 30/06/2018 | **Bachelor Degree in Developmental Psychology**
Salesian Pontifical University, Rome (Italy)

Graduation Mark: 30/30 *Summa Cum Laude*
Final thesis: «Time between the mind and the brain. The chronological dimension in the subjective experience».
Supervised by: Prof. Stefano Tognacci, MD.

Practical skills

- Administration and scoring of psychometric tests (BFQ, EPQ, STAI, DMI, DAT);
- Bibliographical review of scientific articles/works.

Further occupations

- Spokeperson for the students, taking part to the meetings of the Department Board for the Department of Psychology;

- Coordinator of the University's sport equipe, leading a group of 5 people and organizing all the athletic tournament throughout the academic year.

Extracurricular Academic Training

04/2020 | **Online Course on Coursera - Computational Neuroscience**
University of Washington

- Basic computational methods in Neuroscience; Representation of information by spiking neurons; processing of information in neural networks; algorithms for adaptation and learning.

23/09- 24/09/2019 | **Psychology and Neuroscience PhD Advanced Academic Courses – MATLAB course**
Sapienza University of Rome – AgliotiLab, Rome (Italy)

- Fundamental knowledge about Matlab computational environment.

03/10- 04/10/2019 | **Psychology and Neuroscience PhD Advanced Academic Courses – EEG course**

Sapienza University of Rome – AgliotiLab, Rome (Italy)

- Dos and don'ts before and during the recording of an EEG experiment;
- Main aspects of preprocessing (filters, ICA, artifacts, how to visualize the signal);
- ERPs, Time-frequency (FFT, Morlet..);
- Statistics (a priori channel-based analysis, cluster based analysis);
- Source reconstruction;
- Connectivity, MVPA (basics).

05/08- 09/08/2019 | **Radboud Summer School – Analyzing Neural Time Series Data**

Radboud University, Nijmegen (the Netherlands)

- Theoretical bases of advanced neural time series (LFP/EEG/MEG) analyses;
- Mechanics of the Fourier Transform; use of Wavelet Convolution; implementation of non-parametric statistics to evaluate statistical significance while correcting for multiple comparisons;
- Implementation of the above mentioned in Matlab (hands-on labwork);
- Data simulation in Matlab.

Course Director: Prof. Michael X. Cohen

15/07- 19/07/2019 | **Utrecht Summer School – Neural Circuit Development and Plasticity**

Utrecht University, Utrecht (the Netherlads)

- Basic principles of neuronal development and function; Techniques in Cellular Neuroscience; Axon growth and guidance; Synapse structure and function; Synaptic plasticity

Course Organizers: Dr. Corette Wierenga, Dr. Jeroen Pasterkamp, Dr. Lukas Kapitein, Dr. Harold MacGillavry

01/07- 20/07/2018 | **UCL Summer School – How the Brain Works and What Can Go Wrong**

University College London, London (United Kingdom)

- Neuroscience and Clinical Psychology – Brain mechanisms, Neuroimaging, Neuropsychology and Psychopathology;
- Biopsychosocial Model of Psychopathology;
- Production of an essay about Magnetoencephalography (MEG);
- Group work and presentation in class.

25/09 – 27/09/2017 | **CARS (Advanced Course for Research) – Analisi del segnale EEG (EEGlab Software)**

University of Padua, Padua (Italy)

- Theoretical and practical use of EEGlab Software for the study of Electroencephalographic (EEG) recordings.

08/2018 | **Online Course on Future Learn - The many Faces of Dementia**

University College London, London (United Kingdom)

- Symptoms and science behind four less common forms of Dementia (fAD, bvFTD, DLB, PCA);
- Insights into Dementia support and care.

Previous Work Experience

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01/11/2018- 31/10/2019 | **Professional Educator**
Cooperativa "Roma Solidarietà" – Caritas Roma, Rome (Italy)

- Support and education of unaccompanied minors, mainly foreigners;
- Social and psychological interventions, often on subjects affected by trauma and/or psychiatric disorder;
- Management and administration of legal procedures.

09/2015- 07/2019 | **Basketball Coach**
ASD Virtus Basket Aprilia, Aprilia (Italy)

- Coaching two teams of 20/30 children each, aged 4-12;
- Observed and worked with children affected my major cognitive and developmental disorders (e.g. ASD, ADHD, Dyspraxia);
- Teaching basic corporeal developmental skills alongside behavioural and emotional skills;
- Managing local basketball events.