Joana López Pigüi

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OBJECTIVE

I am the moment looking for opportunities to start a new PhD in the field I am most interested: cortical oscillations, mu rhythm, mirror neurons, action anticipation and action observation, and Autism Spectrum Disorder with neuroimaging (EEG). I am keen to find also ways to collaborate with other researchers in different projects in the area of Neurosciences.

FORMAL EDUCATION

PhD candidate at the University of Hull – Universidad de La Laguna: The brain as a predictive machine (2018 to present)

A fundamental human capacity is to construct predictive representations of upcoming events. This is of special relevance within the social world, where the events that matter most are others' actions, whose accurate prediction/anticipation critically affects social success. The aim of my research is to test the contentious idea that the ability to predict/anticipate other's (upcoming) actions is underpinned by the concerted activation of 'action-chains' in both the STS and MNM, which is impaired in ASD. For this, individuals with ASD will be recruited (matched by controls). Electroencephalography will be used.

MSc Neuroscience (60 ECTS)

Neuroscience Institute of Castilla y León - INCYL – Universidad de Salamanca. https://institutoneurociencias.org/ **, (2015-2016)**

Project dissertation of the MSc in Neuroscience in the field of Auditory Neuroscience: "The function of the medial olivocochlear reflex (MOCR) in sound lateralization in noisy environments", supervised and graded by Prof. Enrique López Póveda: PhD, Professor and researcher in the *Neuroscience Institute of Castilla y León*.
Overall grade: 8,17 in a scale of 10. Final dissertation grade: 7,7 in a scale of 10 (12 ECTS).

BSc Psychology (240 ECTS)

Faculty of Psychology – Universidad Complutense, Madrid, **(2009-2014)**

Project dissertation about "Mirror Neurons, Theory of Mind and Neuropsychology of the social emotions (envy, shame and guilt)"
Practicum in Neuropsychology as a research assistant. Supervisor: Prof. Santiago Fernández González, PhD, Professor at the Department of Basic Psychology II, Faculty of Psychology, Universidad Complutense, Madrid.
Overall grade: 7 in a scale of 10. Dissertation grade: 8 in a scale of 10 (6 ECTS). Practicum grade: 10 in a scale of 10 (12 ECTS).

FURTHER EDUCATION

- **ADOS2 (Autism Diagnostic Observation Schedule),** Positive about Autism, Manchester, **May 2019**
- **Research methods for Postgraduates (20 ects module), University of Hull, 2018-2019**
- **The Modern Researcher 1 (20 ects module), University of Hull, 2018-2019**

- **Career Management Skills for Research Students (20 ects module), University of Hull, 2020**

COURSES AND SEMINARS

- **Professional Practice in Teaching and Learning in Higher Education, University of Hull, January 2019**
- **Nothing About Us Without Us - conducting research with people with cognitive impairments, University of Hull, November 2018**
- **Demystifying Deep Learning, MathWorks Webinar, March 2018**
- **Artificial Vision in a simple way, MathWorks Webinar, March 2018**
- **Deep Learning Explained, EdX web, January 2018**
- **MATLAB and Octave for beginners, EdX web, September 2017**
- **Advanced Excel, Montemadrid Foundation, September 2017**
- **Gender paradigm as analytic category in Psychopathology, Spanish National Research Council (CSIC), May 2015**
- **The scientist's toolbox, Johns Hopkins University, March 2015**
- **Dissemination session about actual outlook of forensic sciences in Murcia, Legal Psychology Service in the University of Murcia, April 2010**

SCHOLARSHIPS

PhD at the University of Hull, **September 2018 – Present**
Language Immersion Scholarship – Menéndez Pelayo University**, August 2016**
General and Mobility Scholarship – Spanish Ministry of Education**, September 2009-July 2016**
Erasmus Program Scholarship: Katholieke Universiteit Leuven (Belgium) **January 2014-July 2014**

RESEARCH SKILLS

- Design of quantitative scientific experiments
- Electroencephalography (EEG): used both Brain Products BioSemi and Compumedics NeuroScan.
- Presentation of stimuli using E-Prime
- Setting up the laboratory before the experiment, recruiting participants, applying the cap and electrodes
- Registering and collecting EEG data with ActiView and Curry 8.
- Pre-processing EEG data both with Brainstorm and Brain Vision.
- Statistical analysis with Matlab and R.
- Writing scientific reports, giving oral presentations
- Others (masters): analysis of cellular differentiation and regeneration, plasticity and neuronal death processes, electrophysiological recordings, microscopy and histochemistry, stereotactic radiosurgery techniques, cellular therapy techniques and neural transplant.
- Others (bachelors): Cognitive psychology and Neuropsychology specialization in the BSc-Psychology and Cognitive Science, Knowledge Technology and Functional Architecture of the Mind.
- Research related subjects: descriptive statistics, inferential statistics, methods, designs and techniques in research, psychometrics, qualitative methodology and epidemiologic analysis.

COMPUTER SKILLS

- Microsoft Word, Excel, PowerPoint, Outlook, Internet Explorer, Firefox and Google Chrome
- Wordpress.
- IBM-SPSS Statistics

- MATLAB and Octave
- RStudio

LANGUAGES

Spanish	Mother Tongue
Romanian	Mother Tongue
English	Advanced User – C1.3 European Framework of Reference
Certificates	International English Language Testing Service – IELTS (7'5).
French	Intermediate User – B2.1 European Framework of Reference

OTHER

Web editor and writer at Psiqueviva.com: a Science and Psychology website. For further information: https://psiqueviva.com/author/lp468/

INTERPERSONAL SKILLS

- Contributed to overall project design of my thesis "The Brain as a predictive machine" involving extensive research of archives and literature using a wide range of manuscript and web-based resources.
- Demonstrated analytic and critical thinking skills for collecting, analyzing and presenting valuable data in my research project. Learnt and improved my abilities of working in a team (research group) as well as developed good written skills.
- Strong communication/presentation skills: presented data clearly and confidently at home or abroad, in Spanish as well as in English, adapting style and content to the level of knowledge and understanding of the audience.
- Strong synthesizing, writing, and information technology skills
- Collaborated and communicated at all professional levels, and with people from diverse origins and cultures.
- Can work both independently and in team settings.
- Experience in living abroad, which also improved my command of English and French. Perseverance and self-motivation.
- Used to seek and critically assess large amounts of information, to search the cause of problems, evaluate available options and to move things forward.
- Employed a wide range of quantitative statistical analytical methods, including use of MS Excel and SPSS, Matlab and R.

REFEREES

Dr. Santiago Fernández González (professor at the Faculty of Psychology, Universidad Complutense de Madrid): sanferna@ucm.es – Degree final dissertation's supervisor
Dr. Enrique López Póveda (professor at the University of Salamanca): ealopezpoveda@usal.es -Master final dissertation's supervisor