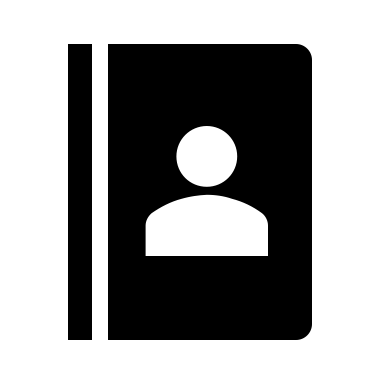
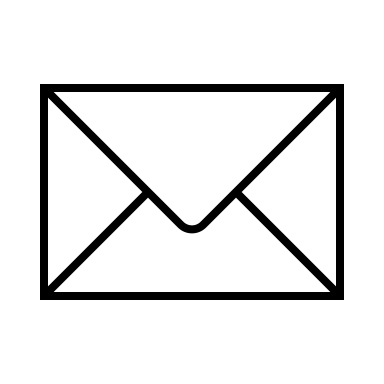
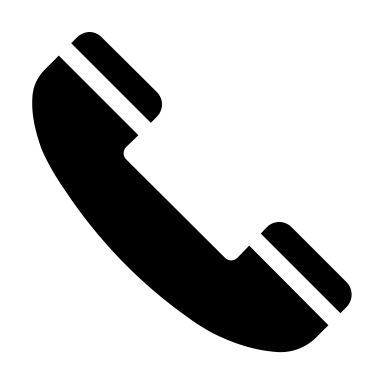
**ESTEBAN SEBASTIAN LELO DE LARREA-MANCERA**

RESUME

 Mexican Citizen  dr.sebasllm@gmail.com  +1(951) 892-9065  Mexico City

**BRIEF PERSONAL STATEMENT**

I am a Mexican Psychology Scholar with a strong background in research and practical applications based on cognitive neuroscience. I am interested in the ways perception, cognition and action interact with one another in the service of behavior and the possibility of a systematic change over time (learning). My work involves neurotypical and neurodiverse folks and so it involves research and development of accessibility solutions for perceptual and cognitive assessment and training.

**EDUCATION**

**Ph.D.** in Cognitive Neuroscience, *University of California Riverside, USA.* **2016 – 2021**

*Dissertation: “Assessment and Training Across the Mechanical Senses” (*[*link*](https://escholarship.org/content/qt7kw89480/qt7kw89480_noSplash_4fd1e06c8cd6bc4995af1173771380a7.pdf)*).* This work comprised four published articles on tactile and auditory research where I tested, trained, and retested participant’s perceptual functions to provide detailed reports of people’s sensory proficiencies, their change after perceptual training, and the individual differences in result patterns. My work served to validate 2 freely-available apps called *P.A.R.T*. and *Listen* designed to assess and train people’s hearing ability.

**M.Sc.** in Cognitive Systems & Interactive Media, *Pompeu Fabra, Spain.* **2011 – 2012**

*Thesis*:*“Sound and Music to Study Disorders of Consciousness”.* In this work I used sound with varying types of musical content and measured participant’s brain’s electrical responses to them with the end of re-classifying vegetative state patients into minimally conscious states.

**Lic.** in Psychology, *Universidad Nacional Autónoma de México, México.* **2005 – 2010**

*Thesis*:*“The effect of musical context on auditory automatic change detection”.* This work involved measuring the brain’s automatic auditory change detection responses to musical stimuli while participants were playing a silent videogame. This work is indicative of the amount of auditory information that can be perceived and learned while performing a task with high attentional demand.

**EXPERIENCE & TRAINING**

**Behavioral Data Scientist,** *Beway Consulting* **Aug 2024 – to date**

I provide advice on experimental design, data quality, data analysis, and scientific communication.

**Postdoctoral Research Associate**, *Northeastern University,*  **Sep 2021 – Jul 2024** *University of California Riverside, and Oregon Health & Science University.*

Here I continued to work as key personnel for five National Institutes of Health grants on the development, validation, and applied research of assessment and training tools for central auditory function (funding cumulative sum of 12.5 million USD).

**Visiting Scholar**, *Instituto Nacional de Neurología y Neurocirugía &*  **Nov 2021 – Jul 2024**

*Instituto Nacional de Psiquiatría.*

Here I worked on importing to Mexico the materials developed during my PhD and postdoctoral efforts. This involved the localization, validation, and testing in the Spanish-language of cognitive and central auditory assessment. Research on this front has involved older adults with and without cognitive, motor, or perceptual difficulties, and different clinical populations such as those with schizophrenia, dementia, or Parkinson’s disease.

**Brain Game Center Research Staff,** *University of California Riverside* **Sep 2016 – Jul 2024**

Since my PhD I have been an active part of this center. In addition to what is mentioned above, I have worked on 1) developing and validating different gamified approaches to perceptual assessment; and 2) developing algorithms that control different dimensions of perceptual or cognitive assessment depending on a participant’s performance, effectively delivering challenges that are adequate for a given individual.

**RESEARCH DISSEMINATION, COMMUNICATIONS, AND AWARDS**

**Detailed list of peer-reviewed publications:** [**Google Scholar**](https://scholar.google.com/citations?hl=es&user=upsviLQAAAAJ)

*17 published; 4 manuscripts under peer review; 5 manuscripts in preparation*

**34 Scientific presentations** at international academic conferences.

**14 Awards** including external funding for research and travel to academic conferences.

**SELECT PROFESSIONAL DEVELOPMENT AND SUPPLEMENTAL TRAINING**

**Acoustical Society of America (ASA) School** (May, 2024). Ottawa, Ontario, Canada.

**7th Biennial Perceptual Learning Workshop** (August, 2022). Alyeska, Alaska, USA.

**14 Additional PhD courses** taken including a breadth of research topics in cognitive psychology and neuroscience, research methods and statistical analysis.

**SUMMARIZED TEACHING AND SUPERVISION**

**Psychology Teaching Assistant** *University of California Riverside* **Sep 2016 – Jun 2021**

Department of Psychology (14 courses).

**Cognitive Neuroscience Lecturer** *Universidad Iberoamericana.* **Jan 2012 – Jun 2016**

Cognitive Neuroscience area of the Department of Psychology (16 courses).

**Student Mentor** Over 30 graduate and undergraduate students across **Sep 2017 – Present** academic institutions in Mexico and the USA.

**SELECT SERVICE TO COMMUNITY**

**Serve as the Standards Representative** from the Psychology and Psychophysics committee of the Acoustical Society of America starting in 2024.

**Served as reviewer** for 12 peer-reviewed journals and over 30 manuscripts reviewed since 2021.

**Served as methodological advisor** for the standardized national test for psychology professionals in Mexico (SENEVAL, 2015).

**SKILLS**

**Spoken Languages:** English (proficient; TOEFLibt 114/120), Spanish (native), Catalan (beginner).

**Programming Languages:** MATLAB, Python, R.

**Statistical Analysis:** SPSS, JASP, Microsoft Excel, R, MATLAB.

**Behavioral Analysis:** Measure Design and Development, Psychophysics, Drift diffusion modelling, Signal detection theory.

**Electrophysiological Analysis:** EEGLAB, ERPLAB, Brain Vision Analyzer, FieldTrip, MATLAB Signal Processing Toolbox.

**Psychophysical Measurement tools**: PART for auditory and cognitive research; Audacity; Palamedes toolbox.

**Experiment Design:** Psychophysics Toolbox, Stim4.

**Self-report Measures:** Survey and questionnaire development, validation, and application.

**Team Management:** Have managed small groups of 5-20 research assistants to carry out specific research projects. Have lead the organization and management of large collaborative research grants including multiple investigators and research institutions.

**Grant Writing:** I obtained Mexican government grants to study my masters and PhD abroad. As a PhD and postdoc I have participated in the writing of several grants including the funded: “Mediators and Moderators of Auditory Training” (<https://reporter.nih.gov/project-details/10621823>).