

# AGUSTIN PEREZ SANTANGELO

Laboratorio de Neurociencia  
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## EDUCATION

**Ph.D. in Biology (Neuroscience)**, University of Buenos Aires, 2016-present day.

**Degree in Molecular Biology and Biotechnology (Licenciatura)**, University of Buenos Aires, 2006-2013.

## RESEARCH INTERESTS

Cognitive Neuroscience; Human Behavior; Decision-Making; Evidence-Based Policy-Making; Emotions; Music; Computational Models; Bayesian Inference; Eye-Tracking.

## RESEARCH

### **Ph.D. Candidate, 2016-present day**

Concentrations: Decision-making, Computational Modeling of Cognition and Behavior, Emotions, Physiology.

Thesis: *"Cognitive effects of context on human decision-making"*.

Advisors: Mariano Sigman, Ph.D., Maria Juliana Leone, Ph.D.

Laboratorio de Neurociencia, Torcuato Di Tella University.

### **Laboratory Technician, 2015-2016**

Concentrations: Molecular Markers, Genetic Profiling, Degraded DNA.

Research and development project: *"Design of long ssDNA polynucleotides to amplify STRs loci in degraded DNA samples"*.

Advisors: M.Sc. Martin Mautner.

Biodynamics S.R.L.

### **Undergraduate Research Assistant, 2011-2013**

Concentrations: Behavior, Circadian Rhythms, Genetics, Neural Pathways.

Undergraduate research project: *"Molecular Pathways of Circadian Behavior in D. Melanogaster"*.

Advisor: Maria Fernanda Ceriani, Ph.D.

Behavioral Genetics Laboratory, Fundación Instituto Leloir.

## **PUBLICATIONS**

Perez Santangelo, A.; Ludwig, C.; Navajas, J.; Sigman, M.; Leone, M.J. (2020). *"The Beatable Mind: Music changes the policy of human decision-making"*. In review.

Hermida, M. J.; Perez Santangelo, A.; Calero, C.I.; Goizueta, C.; Espinosa, M.; Sigman, M. (2020). *"Learning-by-teaching approach improves children and parent's dengue knowledge"*. In review.

Mautner, M. E.; Santangelo, A. P.; Bielsa, R. M. C.; Sala, A.; Ginart, S.; Corach, D. (2017). *"Using long ssDNA polynucleotides to amplify STRs loci in degraded DNA samples"*. PLoS ONE 12(11), e0187190

Beckwith E. J.; Gorostiza, E. A.; Berni, J.; Rezával, C.; Perez-Santangelo, A.; Nadra, A. D. et al. (2013) *"Circadian Period Integrates Network Information Through Activation of the BMP Signaling Pathway"*. PLoS Biology 11(12): e1001733.

## **GRANTS**

Diversity grant for the FENS 2020 Virtual Forum, ALBA-FKNE-YIBRO, 2020.

Fee waiver, Neuromatch Academy, 2020.

International Travel Grant, International Brain Research Organization (IBRO), 2019.

Fee waiver and travel grant, HelloBio - European Neuroscience Conference for Doctoral Students (ENCODS), 2019.

Doctoral Scholarship, National Scientific and Technical Research Council, 2016.

*Sarmiento* Scholarship for undergraduate students, University of Buenos Aires, 2007.

## **RELEVANT SKILLS**

Extensive programming skills in R (including Shiny and R Markdown), MATLAB and Python, for implementation of experimental paradigms, data collection, analysis, and visualization.

Statistical analysis and modelling in both frequentist and Bayesian frameworks (with R).

Extensive experience in audio, image, and video edition software (Cubase, Adobe Illustrator, Adobe Premiere, Sony Vegas, SoundForge, Adobe LightRoom).

Fluent in Spanish (first language) and English (IELTS overall score: 8); basic Portuguese and French.

## CONFERENCE ABSTRACTS

Perez Santangelo, A; Navajas, J; Sigman, M; Leone, M J. *"Cognitive effects of music tempo on decision-making in humans"*. [Poster]. Argentinian Society for Behavioral Sciences XVII Annual Meeting. Posadas, Argentina. August 2019.

Perez Santangelo, A; Navajas, J; Sigman, M; Leone, M J. *"The beatable mind: cognitive effects of music tempo on human decision-making, a model-based approach"*. [Short-Talk]. MathPsych/ICCM Annual Meeting. Montreal, Canada. July 2019.

Perez Santangelo, A; Navajas, J; Sigman, M; Leone, M J. *"The beatable mind: cognitive effects of music tempo on human decision-making, a model-based approach"*. [Short-Talk]. ENCODS Annual Conference. London, UK. June 2019.

Beckwith, E J; Gorostiza, E A; Pérez Santángelo, A; Berni, J; Rezával, C; Nadra, A; Ceriani, M F. *"Circadian period is the result of the interaction between the cell autonomous clock and the BMP retrograde signaling pathway"*. [Poster]. Argentinian Society for Neuroscience Research XXVII Annual Congress. Córdoba, Argentina. October 2012.

## TALKS/SCIENCE COMMUNICATION

*"Cognitive effects of context on human decision-making"*. "Fundaments and Applications of Interdiscipline" Interdisciplinary Symposium. University of Buenos Aires. Buenos Aires, Argentina. March 2019.

*"Time Perception"*. "Space. Polyphonies. Memory" Interdisciplinary Symposium. National University of "Tres de Febrero". Buenos Aires, Argentina. December 2018.

## TEACHING EXPERIENCE

**Instructor**, 2015-present day  
National University of "Tres de Febrero"  
Course: Chess & Science

**Instructor**, 2016-2017  
"Santa Teresita del Niño Jesus" High School  
Course: Science

## PROFESSIONAL MEMBERSHIPS

Argentinian Society for Neuroscience Research (SAN)  
Society for Mathematical Psychology (SMP)

## **CERTIFICATIONS**

*"Neuromatch Academy interactive track and project completion"*  
Neuromatch 2020 (online summer-school).

*"Protecting Human Research Participants."*  
Certification Number 2935136  
NIH (online course).

## **EMPLOYMENT HISTORY**

**Lead laboratory technician**, 2008-2016  
Molecular Biology Laboratory, Biodynamics S.R.L.