

# AGUSTIN PEREZ SANTANGELO

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Personal website: [2exp3.netlify.app](https://2exp3.netlify.app)

GitHub code repositories: [github.com/2exp3](https://github.com/2exp3)

## EDUCATION

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

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

## RESEARCH INTERESTS

Cognitive Neuroscience; Human Behavior; Decision-Making; Evidence-Based Policymaking; Computational Models; Bayesian Inference.

## 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., & Solovey, G. (2020). "Time to shine: reliable response-timing using R-Shiny for online experiments" (preprint). <https://doi.org/10.31234/osf.io/nuxdg>
- Perez Santangelo, A.; Ludwig, C.; Navajas, J.; Sigman, M.; Leone, M.J. (2020). *"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. et al. (2013) *“Circadian Period Integrates Network Information Through Activation of the BMP Signaling Pathway”*. PLoS Biology 11(12): e1001733.

## RELEVANT SKILLS

- Proficient in R (including Shiny and R Markdown) and extensive programming experience with MATLAB and Python, for the implementation of experimental paradigms and data collection, analysis, visualization, and communication.
- Vast experience in statistical analysis and modelling (including multi-level and non-linear models) in both frequentist and Bayesian frameworks (with R).
- Competent in HTML, JavaScript, and CSS.
- 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 Academic overall score: 8); basic Portuguese and French.

## RELEVANT COURSES

- Decision-Making: Cognitive and statistical modelling with R. Faculty of Exact and Natural Sciences (FCEN), University of Buenos Aires (UBA), 2020.
- Statistical Rethinking: A Bayesian Course. Virtual, 2020
- Neuromatch Academy: modelling neuroscience phenomena with Python. Virtual, 2020.
- Econometrics. FCEN, UBA, 2019.
- Network Science. FCEN, UBA, 2019.
- Applied Statistics: General and Generalized Linear Mixed Models. FCEN, UBA, 2018.
- Data Science with R: Statistical Bases. FCEN, UBA, 2017.

## EMPLOYMENT HISTORY

**Applied statistics consultant**, 2019-present day, Freelance.

- Data analysis for [MundoSano](#), and several collaborations with academics where I apply bespoke statistical methodology to answer specific questions.

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

- In charge of all the steps involved in production, quality assurance, and research and development of new molecular-biology techniques (which crystallized in a published peer-reviewed paper).

## TEACHING EXPERIENCE

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

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

## GRANTS

- 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.

## CERTIFICATIONS

- "*Neuromatch Academy interactive track and project completion*", Neuromatch 2020 (online summer-school).
- "*Protecting Human Research Participants*", Certification Number 2935136, NIH (online course).