

# Joaquin Menendez

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## EDUCATION

**Duke University, North Carolina, United States**  
**Master in Interdisciplinary Data Science (MIDS) - Fulbright Scholarship** | Aug 2018 - May 2020

**University of Buenos Aires (UBA), Buenos Aires, Argentina** | Mar 2009 - Nov 2014

Bachelor in Psychology

Teaching assistant positions:

- Neurophysiology | Jul 2011 - Dec 2012
- Behavioral biology | Mar 2014 - Jan 2015

**Autonomous University of Madrid (UAM), Madrid, Spain - Santander Scholarship** | Jan 2013 - Jul 2013  
International exchange student

## PROFESSIONAL EXPERIENCE

### Data Science Intern

**Duke Forge, Durham, United States** | May 2019 - Aug 2019

- Examined the link between social determinants and risk prediction for hospital admissions, and which assessed whether social determinants affect that risk in a systematic way. [\[Link\]](#)
- Applied methods of machine learning, risk prediction, and assessment of classification bias.
- Programed an interactive dashboard using Plotly (Dash) in order to explore classification bias on different variables.
- Presented results to different stakeholders (researchers, physicians and hospital managers) and maintained dialogue to inform the direction of our analysis.

### Assistant Lecturer - 'Psychophysiological Methods'

**University of Buenos Aires School of Psychology, Buenos Aires, Argentina** | Jul 2015 - Oct 2018

- Taught undergraduate courses in topics that included: Experimental design, Statistics, electroencephalography (EEG) and skin conductance Response (SCR).
- Prepared course material; including laboratory experiments, lectures and slides, and practice problems.
- Advised three undergraduate thesis.

### Research Assistant

**Behavioral Biology Lab (IByME-CONICET), Buenos Aires, Argentina** | Sep 2015 - Aug 2018

- Investigated categorical learning using Electroencephalography registers (ERP) and behavioural data.
- Designed and programmed computerized experiments in Python.
- Implemented a protocol of Electroencephalographic data processing in MATLAB involved epoch rejection and Independent Component Analysis (ICA).
- Used R and SPSS to perform inferential statistic analysis.

### Research Intern

**Behavioral Biology Lab, IBYME-CONICET, Buenos Aires, Argentina** | Aug 2014 -Sep 2015

- Research Project: *"Neurophysiological correlates of direct and indirect semantic priming: verification procedures of behavioral processes"*.
- Assisted with experimental design, electroencephalographic and behavioral data collection, cleaning and analysis.

## SOFTWARE SKILLS

**Programming Languages:** Python, MATLAB

**Databases:** MySQL, Neo4j, Hadoop, Spark

**Statistics:** R, SPSS

**Frameworks:** NumPy, SciPy, Pandas , Scikit-learn, dplyr, EEGLAB, MNE

**Visualization:** Tableau, Matplotlib, Seaborn, ggplot2, Plotly

**Cloud Computing:** AWS , Google Cloud

## SCIENTIFIC PUBLICATIONS

- **Menendez, J.**, Sánchez, F., Polti, I., Idesis, S., Avellaneda, M., Tabullo, Á., & Iorio, A. (2018). [Event-related potential correlates of stimulus equivalence classes: A study of task order of the equivalence based priming probes with respect to the stimulus equivalence tests, and among the distinct trial types with each other.](#) Behavioural brain research, 347, 242-254. doi: 10.1016/j.bbr.2018.03.017
- Idesis, S. A., D'Amelio, T. A., Batán, S. T., **Menendez, J.**, & Polti, I. (2018). [Electrodermal and behavioral response to emotional Spanish words in native speakers.](#) Revista Argentina de Ciencias del Comportamiento (RACC), 10(1), 43-54.
- **Menendez, J.**, Sanchez, F.J., Avellaneda, M., Idesis, S.A., Iorio, A.A. (2017) [Effects of Mixed Training Structures on Equivalence Class Formation.](#) International Journal of Psychology and Psychological Therapy, 17(3), 291-303.
- Avellaneda, M., **Menéndez, J.**, Santillán, M., Sánchez, F., Idesis, S., Papagna, V., & Iorio, A. (2016). [Equivalence Class Formation is Influenced by Stimulus Contingency.](#) The Psychological Record, 66(3), 477-487.

## HONORS AND AWARDS

**Academic Mention 2017** | October 2018

Recognition given to lecturers who received an award from an external organization besides the University of Buenos Aires during the year 2017.

**Argentine Presidential Fellowship in Science and Technology Administered by the Argentine Fulbright Commission with support from LASPAU** | *June 2017*  
Fellowship to pursue a master's degree in the United States starting Fall 2018. Funded by the Argentine President's Cabinet and the U.S. Embassy of Buenos Aires.

**Prominent Student 2013** | *November 2014* Awarded by University of Buenos Aires in recognition of undergraduate research.

**National Interuniversity Council (CIN) Research Fellowship** | *August 2014*  
One year funded undergraduate research assistant position for an investigation group at University of Buenos Aires.

**UAM – Santander Scholarship** | *November 2013*  
Full scholarship to attend a semester at the Autonomous University of Madrid as an exchange student. Chosen as a recipient due to academic merit.

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