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), 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), 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, 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 theses.

Research Assistant

Behavioral Biology Lab (IByME-CONICET), Buenos Aires, Argentina | *Sep 2015 - Aug 2018*
- Investigated categorical learning using Electroencephalography registers (ERP) and behavioral 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 statistical 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.

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

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.
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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.

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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