

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

Coursework: *Data scrapping & text analysis, Modelling & representation of data, Data management system, Machine learning, Data logic & Visualization, Statistical programming for big data, Data Ethics, EHR and mobile devices, Data to Decision, Tools for data science*

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

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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