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

Licenciate 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 Mentor**

**ACAMICA**, **Buenos aires, Argentina** | *Sept 2020 – Present*

* I teach the first module of the Data Science career
* Topics includes: Introduction to Python, Statistics, Probability and Machine Learning

**Data Scientist - Healthcare Analytics**

**Departamento de Informática en Salud del Hospital Italiano**| *July 2020 – November 2020*

* Programmed an interactive dashboard using Shiny (R) as a tool to infer which members of the health plan are profitable clients and to suggest possible strategies to retain leaving members.
* Applied APIs to georeference all the members from the health plan to perform distance and density analysis in the future.
* Design and taught Python courses for medical residents.

**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](https://github.com/joaquinmenendez/resume/blob/master/multimedia/Data%2B%20Final%20poster.pdf)]
* 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, Tensorflow, Docker

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

**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.](https://www.sciencedirect.com/science/article/pii/S0166432817316224) *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.](https://dialnet.unirioja.es/servlet/articulo?codigo=6626839) *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](https://www.redalyc.org/pdf/560/56054637007.pdf). *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](.%5d(https:/www.researchgate.net/publication/304191857_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.

[[Google Scholar profile](https://scholar.google.com/citations?user=QXAVig4AAAAJ&hl=en)]

[[Likedin profile](https://www.linkedin.com/in/joaquin-menendez/?locale=en_US)]