

Jacqueline M. Beltrán

jacqueline.beltran@icahn.mssm.edu | 619-243-9366

EDUCATION

Icahn School of Medicine at Mount Sinai (ISMMS)

08/2021 - Present

Ph.D., Neuroscience

Advisors: Laurel Morris, Ph.D. & James Murrough MD, Ph.D.

University of California, Santa Barbara (UCSB)

09/2015 – 06/2019

Bachelor of Science, Biopsychology

RESEARCH EXPERIENCE

Post-Baccalaureate Research Education Program Scholar

08/2020 – 07/2021

ISMMS, Psychiatry Department

New York, NY

- Utilized EEG and clinical assessments to study the largely uncharacterized neurobehavioral syndrome of misophonia.
- Designed an auditory EEG task to differentiate brain responses to misophonic trigger sounds across people with misophonia and healthy controls.
- Translated Institutional Review Board documents from English to Spanish and communicated with families to develop and launch a family-mediated virtual intervention in Peru with the purpose of improving outcomes in autism spectrum disorder during the COVID-19 Pandemic.
- Responsible for the literature review for manuscript writing.

Research Assistant

04/2018 – 06/2019

California Alliance for Minority Participation (CAMP) Research Program

Santa Barbara, CA

- Researched the early acquisition of methamphetamine and cocaine addiction through operant conditioning and conditioned-place preference tests in B6 mice.
- Developed a research proposal in collaboration with the Principal Investigator, Dr. Karen Szumlinski, and graduate student, hypothesizing that stimulating reward subcircuits would increase MA-seeking behavior.
- Attended weekly professional development workshops and seminars purposed towards developing oral presentation skills and learning about current research.

HONORS & AWARDS

• Scientist Mentoring and Diversity Program for Biotechnology Scholar

05/2023 – Present

International Center for Professional Development

• Computational Psychiatry Conference Travel Award Recipient (€1,000)

04/2023

Trinity College Dublin

• Diversity Supplement Training Grant (\$97,018.00)

01/2023 – Present

National Institute of Mental Health

• Undergraduate Research & Creative Activities Grant (\$750)

12/2018

University of California Office of Undergraduate Education

PUBLICATIONS

- Szumlinski, K.K., **Beltran, J.**, van Doren, E., Jimenez Chavez, C.L., Domingo-Gonzalez, R.D., Reyes, C.M., Ary, A.W., Lang, A., Guo, W., Worley, P.F., Huber, K.M., Evidence for phosphorylation-dependent, dynamic, regulation of mGlu5 and Homer2 in 2 expression of cocaine aversion in mice, *eNeuro* (2023), doi: <https://doi.org/10.1523/ENEURO.0423-22.2023>
- Banker, S.M., Na, S., **Beltrán, J.**, Koenigsberg, H.W., Foss-Feig, J.H., Gu, X., Schiller, D., Disrupted computations of social control in individuals with obsessive-compulsive and misophonia symptoms, *ISCIENCE* (2022), doi: <https://doi.org/10.1016/j.isci.2022.104617>
- Brown C., **Beltran J.**, Fultz E., Tran T., Barger B., Williams N., Yen W., Park A., Kippin T., Szumlinski K. Investigating the Role of Corticostriatal Glutamate Signaling in Methamphetamine Reward and Reinforcement, *FASEB Journal* (2022), doi: <https://doi.org/10.1096/fasebj.2022.36.S1.R6288>

Jacqueline M. Beltrán

jacqueline.beltran@icahn.mssm.edu | 619-243-9366

PRESENTATIONS

- **Oral**
 - **Investigating the Role of Homer2 in Cocaine Addiction** 06/2019
UCSB CAMP Spring Symposium
 - **Investigating the Role of Reward Subcircuits in Methamphetamine Addiction Vulnerability** 2018
UCSB Summer Research Symposium; UCSB Quarterly CAMP Symposiums
- **Poster (*selected*)**
 - **Exploring Neural Correlates of Reward and Punishment Learning in Depression using 7-Tesla MRI** 07/2023
Computational Psychiatry Conference
 - **Exploring the effects of real-time biofeedback of the Ventral Tegmental Area with 7-Tesla MRI for the treatment of depression** 10/2022
Real-time functional imaging and neurofeedback Conference
 - **Neural Processes Associated with Agency Discrimination in Misophonia** 04/2021
The Friedman Brain Institute 13th Annual Neuroscience Retreat
 - **Investigating the Role of Reward Subcircuits in Methamphetamine Addiction Vulnerability** 08/2018
05/2018
UCSB Summer Intern Poster Colloquium; Undergraduate Research Colloquium

MEMBERSHIPS/COMMUNITY INVOLVEMENT

- Co-Chair - Students for Equal Opportunity in Science – ISMMS, New York NY 07/2021 – Present
- Reality Changers – Reality Changers, San Diego CA 06/2015 – Present
- PREP Year 1 Student Council Representative – ISMMS, New York NY 10/2020 – 07/2021
- Students for Equal Opportunity in Science Member – ISMMS, New York NY 10/2020 – 07/2021
- Pathmaker Intern – Palomar Medical Center, Escondido CA 12/2019 – 03/2020
- MedLife Member – UCSB 10/2018 – 06/2019

SKILLS

- Bilingual: Native/Fluent in Spanish
- Data Analysis/Programming in R, Python
- Neuroimaging
- Rodent behavioral assays
- Mouse care and handling