

ANDREA RUIZ D'ARGENCE

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Education

University of California, San Diego

Bachelor of Science with a Specialization in Cognitive and Behavioral Neuroscience and a minor in General Biology

September 2021- June 2025

Current GPA: 3.673

Research Experience

University of California, San Diego - Department of Cognitive Science

August 2022 - Present

Undergraduate Researcher - Advisor: Dr. Bradley Voytek

La Jolla, CA

Waveform analysis of open-source electrophysiological recordings to decode the neural mechanisms of visual processing

Salk Institute for Biological Studies

October 2023 - June 2024

Lab Technician I - Advisor: Dr. Kay Tye

La Jolla, CA

Application of multidisciplinary approaches (optogenetics, immunohistochemistry, pose estimation) to study the time course of social isolation and dopamine dynamics in the medial Prefrontal cortex during social contact following isolation

The Jackson Laboratory

May 2023 - August 2023

Summer Intern - Advisor: Dr. Mary Teena Joy

Bar Harbor, ME

Development of a pipeline to analyze cortex-wide in-vivo two-photon calcium imaging from a motor task in mice

University of California, San Diego - Department of Psychiatry

September 2022 - June 2023

Undergraduate Researcher - Advisor: Dr. Olivier George

La Jolla, CA

Characterization of cocaine or oxycodone addiction-like behavior, and analysis of nicotinic activation of brain regions in rats

Weizmann Institute of Science

July 2021 - August 2021

Summer Intern - Advisor: Itay Tirosh

Rehovot, Israel (remote)

Single-cell RNASeq analysis of cellular heterogeneity in viral-driven cancers in Nasopharyngeal carcinoma patients

Grants & Awards

UCSD School of Social Sciences Special Initiatives Fund; Award: \$4,098

2024

Translation of *Neuromatch Academy* Computational Neuroscience Education Resources to Spanish for Globally-Accessible Education

Travel Award, Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS)

2023

Publications

Shankar K, Bonnet-Zahedi S, Milan K, **D'Argence AR**, Sneddon E, Qiao R, Chonwattangul S, Carrette LLG, George O (2024). Acute nicotine activates orectic and inhibits anorectic brain regions in rats exposed to chronic nicotine. *Neuropharmacology*, 253, 109959. doi: <https://doi.org/10.1016/j.neuropharm.2024.109959>

Presentations

D'Argence AR, Preston MW, Voytek B. Stimulus-evoked changes in aperiodic electrophysiological activity in macaque visual cortex. *UC San Diego Summer Research Conference*; 2024, August 14; La Jolla, CA.

Also presented at: casas (spanish)

Also presented at: *Community and Science Advancement in Spanish at UC San Diego*; 2023, July 18; La Jolla, CA. **Presentation was done in spanish

D'Argence AR, Alasoadura M, Joy MT. Cortex-wide in-vivo two-photon calcium imaging analysis of mice during skilled reaching. *Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS)*; 2023, November 17; Phoenix, AZ.

Also presented at: *St. Jude Children's Hospital National Symposium for Predoctoral Research*; 2023, October 13; Memphis, TN.

Also presented at: *The Jackson Laboratory SSP Symposium*; 2023, August 10; Bar Harbor, ME.

D'Argence AR, Ramborger JK, Vang A, Lau JJ, Milan K, Chun LE, Hu A, Huang Y, Sichel B, Othman D, Brennan M, Woods LS, Palmer AA, Carrette LLG, George O. Individual differences of within-session cocaine or oxycodone self-administration behavior in heterogeneous stock rats. Lewis L. Judd Young Investigators Symposium; 2023, April 25; La Jolla, CA.

Outreach, Community Advancement & Recognitions

2024 Científico Latino
Scholar; Graduate Student Mentorship Initiative (CL-GSMI)

Yale University
Scholar; Program to Advance Training in Health & Sciences/Next-Generation Excellence Initiative (PATHS/NGEI)

2023 University of California, San Diego
Presentation; "Pathways to PhD", through the first undergraduate M.D.-Ph.D. Society at UC San Diego, presented to an audience of ~30 college-level students on learned tips for graduate school applications from diversity programs

University of Pennsylvania
Scholar; Diversity Equity Engagement at Penn in STEM Program (DEEPenn)

Instituto Tecnológico y de Estudios Superiores de Monterrey
Presentation; "Finding Opportunities Abroad, Sharing International Experiences", audience of ~150 high school students

Skills

Proficiency in Python, R, Excel and Microsoft Office Problem solving	English and Spanish proficiency Collaborative mindset High ability in scientific literacy	Detail oriented Communication Self-management
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