

EDUCATION

Columbia University, Columbia College
Bachelor of Arts, Neuroscience & Behavior

New York, NY
May 2020

Relevant Coursework: Neurobiology, Developmental Psychology, Topics – Neurobiology & Behavior, Consciousness & Attention, Experimental Psychology: Cognition & Decision Making, Introduction to Statistics

Honors: Columbia Undergraduate Scholars Program (2016 – 2020), Dean’s List (Fall 2016, Spring 2017, Fall 2018, Spring 2019, Fall 2019)

RESEARCH EXPERIENCE

Research Coordinator

June 2022 - Present

New York State Psychiatric Institute

Principal Investigator: Guillermo Horga, M.D., Ph.D.

- Recruit and coordinate participants from clinical and high-risk populations for studies examining the neural and computational mechanisms underlying psychotic symptoms
- Perform fMRI and neuromelanin-sensitive MRI scanning procedures
- Administer clinical and neuropsychological assessments and conduct behavioral tasks
- Manage IRB and NIH reports, amendments, and proposals

Postbaccalaureate IRTA Research Fellow

August 2021 – May 2022

National Institutes of Health, National Institute on Alcohol Abuse and Alcoholism

Bethesda, MD

Principal Investigator: Reza Momenan, Ph.D.

- Coordinate the recruitment of participants for protocol examining neural correlates of acute alcohol intoxication on HIV-risk behaviors
- Administer questionnaires and cognitive assessments during screening procedures
- Prepare progress reports for IRB review and assist with regulatory submissions
- Design pilot task for characterizing the effects of alcohol use disorder on the role of spatial frequency content in negative emotion recognition
- Analyze data for independent project examining the associations among changes in alcohol consumption, quality of life, and resting state data

Research Assistant

September 2020 – February 2021

Columbia University, Department of Psychology

New York, NY

Principal Investigator: Alfredo Spagna, Ph.D.

Research Volunteer

February 2021 – August 2021

Alfredo Spagna, Ph.D.

New York, NY

- Assisted in preparation of grant proposal and EEG data collection for pilot study investigating the neural markers of classroom engagement in collaboration with Columbia University SOLER
- Co-authored manuscript and analyzed data comparing the efficacy of antidepressant treatments in ameliorating attentional deficits and clinical symptoms
- Performed virtual tractography and data analysis examining white matter alterations in schizophrenia and their associations with cognitive functioning
- Provided guest lecture on white matter tract dissection for Fundamentals of Neuropsychology course
- Contributed to editing of manuscript examining the interactions between spatial attention and conscious visual perception

Supervised Individual Research

September 2019 – May 2020

Columbia University, Department of Psychology

New York, NY

Advisor: Alfredo Spagna, Ph.D.

- Developed independent research project investigating global and local feature processing in early stages of visual perception

- Programmed backward-masking paradigm and collection of eye-tracking measures
- Prepared submission of IRB protocol, consent form, and recruitment materials

PUBLICATIONS

Rosario, I., Spagna. A global-to-local processing bias in conditions of restricted awareness: the case of symmetry and illusory figures. *Registered Report granted In-Principle Acceptance at Neuroscience of Consciousness*.

Spagna, A.*, Wang, J.*, **Rosario, I.*** E., Zhang, L., Zu, M., Wang, K., & Tian, Y. (2022). Cognitive Considerations in Major Depression: Evaluating the Effects of Pharmacotherapy and ECT on Mood and Executive Control Deficits. *Brain Sciences*, 12(3), 350. *Co-first authorship indicated by **.

CONFERENCE PROCEEDINGS

Momenan, C., **Rosario, I.**, Stangl, B.L., Luk, J.W., Schwandt, M.L., Joseph, P.V., Goldman, D., Diazgranados, N., Ramchandani, V. “Can Resting State Connectivity Predict Alcohol Misuse Changes?” Organization for Human Brain Mapping; July 22-26, Montreal, Canada.

Shatto, C., Gu, Z., Hui, X., **Rosario, I.**, Brown, A., He, X., Spagna, A. “Who gets an A+? Discipline Based Education Research meets Neuroscience in the Classroom.” 29th Annual Meeting of the Cognitive Neuroscience Society; April 23-26 2022, San Francisco, New York.

ADDITIONAL WORK EXPERIENCE

Program Coordinator

Columbia University, Department of Psychology

May – June 2021
New York, NY

Virtual Columbia Summer Global Virtual Bootcamp: Neuroscience of Consciousness

- Coordinated with international laboratories to plan program activities involving speaker events, data analysis practicums, and meetings with lab members
- Served as general resource to students regarding academic and administrative needs
- Prepared course materials, provided individual feedback, and graded assignments
- Promoted program activities and content highlighting student experiences through social media

Tutor

Columbia University Tutoring and Learning Center

September 2018 – June 2020
New York, NY

- Provided in-person and online tutoring sessions in geometry for students attending Columbia Secondary School and A. Philip Randolph High School
- Prepared students for Regents standardized examinations through review of course material and development of test-taking strategies
- Mentored students on identifying academic goals, exploring career options, and transitioning to online learning

ACTIVITIES

Volunteer

Student Health Outreach (Community Impact at Columbia University)

January 2018 – May 2020
New York, NY

- Directed individuals to free or low-cost resources for housing, legal aid, and health care
- Assisted individuals with application materials for New York City identification cards, Supplemental Nutrition Assistance Program, and cell phone program
- Provided referrals for food and clothing pantries

Volunteer

Cardiac Catherization Lab, Mount Sinai St. Luke’s Hospital

March 2018 – September 2019
New York, NY

- Aided nursing staff by organizing medical supplies and paperwork, delivering bloodwork to Pathology Lab, and responding to patient’ requests
- Provided Spanish-English translation for communication between patients and nursing staff

- Trained new volunteers on patient confidentiality, regular duties, and clinical guidelines

SKILLS

Software Tools: PsychoPy, TrackVis, MNE, Tobii SDK, CONN, AFNI, JASP, Microsoft Office, Inkscape

Programming Languages: R, Python

Languages: Proficient Spanish, Intermediate French