

**Isabella E. Rosario**

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**EDUCATION**

**Columbia University**, Columbia College New York, NY  
Bachelor of Arts, Neuroscience & Behavior 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)

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**RESEARCH EXPERIENCE**

**Research Coordinator** June 2022 - Present

- 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 harm reduction, family history of alcohol use disorder, and quality of life outcomes

**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
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## **PUBLICATIONS**

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**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**

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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.” 29<sup>th</sup> Annual Meeting of the Cognitive Neuroscience Society; April 23-26 2002, San Francisco, New York.

## **ADDITIONAL WORK EXPERIENCE**

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### **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**

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### **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**

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

**Programming Languages:** R, Python

**Languages:** Proficient Spanish, Intermediate French

