

# Didi Ramsaran Chin

[didiramsaranchin@gmail.com](mailto:didiramsaranchin@gmail.com) | [Website](#) | [LinkedIn](#) | [Github](#) | [ORCID](#)

## RESEARCH INTERESTS

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**SCIENTIFIC** | Use computational and mathematical models (especially machine learning, dynamical systems, topological and graph theoretical analysis) to unveil mechanistic patterns of neural data and study cognitive functions.

**SOCIAL** | Trans and queer issues in science, Science communication, Teaching and Mentoring.

## EDUCATION

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**UNIVERSIDAD CATÓLICA ANDRÉS BELLO**, CARACAS, VENEZUELA

B.Sc. in Psychology

Expected 2025

Advisor: Dr. Luisa Angelucci.

Thesis: "Instagram study on the influence of motives of use, Instagram use, perceived social support, sex and age on social and personal identity" [translated from Spanish].

## RESEARCH EXPERIENCE

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**UNDERGRADUATE THESIS STUDENT**, CARACAS, VENEZUELA

Mar 2022 – Jul 2024

**UNIVERSIDAD CATÓLICA ANDRÉS BELLO**, *School of Psychology*

Thesis advisor: Dr. Luisa Angelucci.

Co-author: Andrés Muskus.

- Assessed test reliability (translation and adaptation to Spanish, internal consistency indices) and validity metrics (dimensional reduction, topic-expert consultation) of four scales.
- Designed virtual and physical surveys to collect more than 300 subjects.
- Preprocessed data using Excel, Jamovi and JASP, assessing assumptions and reporting descriptive, psychometric and regression metrics.
- Proposed a multivariable statistical model (path analysis) of the direct and indirect effects of socio-demographic, motivational and social variables on social and personal identity to social media, using Goodnes-of-Fit and regression metrics to assess the model's robustness and contribution to social psychological theory.

**RESEARCH SCHOLAR**, REMOTE

Sep 2021 – Jul 2024

**UNIVERSIDAD FRANCISCO DE VITORIA**, *Research and Innovation in Psychology Program (INICIA)*

Advisors: Dr. Belén Obispo and Dr. Jennifer Moreno

- Published a first-authored paper by coordinating a values-based phenomenological analysis on the experience of sexually explicit content exposure among couples.
- Used quantitative (regression models) and qualitative frameworks (phenomenology) to study social, cognitive and emotional determinants of menstrual pain in women and their subjective experience across Venezuelan, Spaniard and Colombian participants.

## SHORT TRAINING

**Neuromatch Computational Neuroscience Academy**, VIRTUAL

Jul 2024

**Neuromatch x NASA Open Science 101**, VIRTUAL

Nov 2024

## TEACHING EXPERIENCE

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### Course Development & Instructor of Record

Courses designed and/or taught.

#### **FHYE: BASIC MACHINE LEARNING**

(Submitted, expected Fall 2025)

*Faculty of Humanities and Education, Universidad Católica Andrés Bello*

- Proposed a hands-on introductory course that sets foundational notions of Machine Learning for undergraduate students from the Humanities and Education Faculty.
- Content ranges from AI history, foundational maths, and Python to supervised Machine Learning algorithms with applications to humanities through interactive Jupyter notebooks.

### Teaching Support

Designed problem sets and exam simulations, taught course topics, coordinated practical activities, and compiled additional resources and references.

#### **VOLUNTEER ASSISTANT**, Universidad Católica Andrés Bello

*School of Psychology*

#### **PSIC 00082: Cognitive neuroscience and neuropsychology**

Oct 2024 – present

- Promote student engagement in theoretical and applied research and applications by sharing and discussing papers, videos and online resources.
- Support in instructing EEG electrode setting and basic MNE examples for EEG analysis.

#### **INSTRUCTIONAL ASSISTANT**, Universidad Católica Andrés Bello

*School of Psychology*

#### **PSIC 00064: Statistics I**

Oct 2020 – Feb 2021

- Assisted in grading and answering additional instruction through Zoom meetings, forums and exercises, and recording video tutorials (e.g. tabulation, plotting).
- Highly evaluated by students (5.25/6), with students highlighting clear communication, content organisation, helpful use of technology, perceived respect and usefulness of resources and references.

*Research Department, School of Mass Communication*

#### **COMU 00335: Statistics**

Feb – Aug 2020

- Provided face-to-face meetings to answer questions, managed forums, curated online resources and designed questions for descriptive statistics and probability distributions.

## PUBLICATIONS

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- **Ramsaran, D.**, Zambrano, J., Berenguer, M., Salgueiro, L., & Obispo, B. (2023). Exposure to explicit sexual content in the couple relationship: A values-based analysis. *Analogías Del Comportamiento*, (22).  
<https://revistasenlinea.saber.ucab.edu.ve/index.php/analogias/article/view/5952>

### MANUSCRIPTS IN PREPARATION

- Muskus, A. **Ramsaran-Chin, D.**, & Angelucci, L. (In Preparation). Instagram study on the influence of motives of use, Instagram use, perceived social support, sex and age on social and personal identity [Translated from Spanish]. Universidad Católica Andrés Bello.
- Zambrano-Gómez, J., Paquín-Tapia, M., Linero-Ebratt, I., Rondeau-Cadarso, M., Silva-Tapias, P., **Ramsaran-Chin, D.**, & Vega, M. (In Preparation). Menstrual pain perception and its determinants: a mixed-methods study in Colombian, Spaniard and Venezuelan women

[Translated from Spanish]. Faculty of Education and Psychology, Universidad Francisco de Vitoria.

- Barandica, J., Díaz, L., Martínez, L., Matos, A. & **Ramsaran-Chin, D.** (In Preparation). Correlations and effects of emotional regulation, self-esteem, personality traits, and gender role attitudes on the prosocial behaviour of Spaniard and Venezuelan university students [Translated from Spanish]. Faculty of Education and Psychology, Universidad Francisco de Vitoria.

## EMPLOYMENT

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**MARKETING TRAINEE**, CARACAS, VENEZUELA Jan 2025 – present

*C.A. Vita*

- Resources planning and execution of promotional campaigns for higiene-focused products.
- Wrote market reports regarding market shareholders, SKUs and value sales, and national and international SKUs prices against category competitors..

**FREELANCE PSYCHOMETRIST**, CARACAS, VENEZUELA Apr – Jun 2024

*Psychometric analyst for the Citizenship Competences Scale*

- Identified goals of request, developed a plan for descriptive, validity and reliability analysis of the instrument, and contrasted results by subsamples.
- preprocessed data, analyzed and reported results in a 6-page long manuscript, concluding on instrument properties and providing methodological, interpretative and research recommendations for further scale development.

**ACADEMIC INTERNSHIPS**, Universidad Católica Andrés Bello

*Common responsibilities across the internships:*

- Collected data from subjects and patients via observation, interviews, and psychological tests on more than 10 subjects.
- Delivered 11 case reports of 9 subjects and 3 group reports, which included personal history, psychological evaluation, needs, intervention plan, treatment results, conclusions and further recommendations for future interventions and academic achievement.

**Psychological Counseling (Community-focused)** Mar – Jun 2024

Advisor: M.Sc. Flor Bernardo

**Clinical Psychology (Adults)** Mar – Jun 2024

Advisor: M.Sc. Juan Romero

**Psychological Counseling** Sep – Jan 2023

Advisor: M.Sc. Liza Guilbert

**Scholar Psychology I and II (Community-focused)** Mar 2022 – Jan 2023

Advisor: Lic. Karen Lobo

**Clinical Psychology (Child and Adolescent)** Sep 2021 – Jan 2022

Advisor: Lic. Michelle Marin

## OUTREACH & COMMUNITY SERVICE

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**INTERNATIONAL YOUTH NEUROSCIENCE ASSOCIATIONS**

Judge for 2025 Ideathon research proposals (focus on neurodegeneration) Jan – Feb 2025

**NEUROMATCH ACADEMY**

General volunteer @ Professional Development department Mar 2024 – Present

**UNIVERSIDAD CATÓLICA ANDRÉS BELLO**, CARACAS, VENEZUELA

“Afuera de la Colmena” II community immersive formative program Mar 2024

Student representative @ Faculty of Humanities and Education	Sep 2023 – Aug 2024
Volunteer @ “Pazando” country-side immersive formative program	Mar 2023
Founder and coordinator of “JIPsi” research promotion program	Dec 2022 – Dec 2023
Founding member of UCABlingo (Foreign Languages and Culture Club)	Jan – Jun 2022
Facilitator of English conversational clubs	2019 – 2021

## AWARDS & HONOURS

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<b>UNIVERSIDAD CATÓLICA ANDRÉS BELLO, CARACAS, VENEZUELA</b>	
Global Competencies in Science, Technology and Humanities Certificate	Oct 2024
Magis scholarship (for achieving the second-to-highest GPA)	Jul 2024
Integral Academic Excellence Award	Dec 2023
International Program School Representation Award	Dec 2023

## MEMBERSHIP

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### INTERNATIONAL

International Neuroinformatics Coordinating Facility (INCF)  
 Cognitive Science Society  
 LatinXinAI  
 International Youth Neuroscience Association

## SKILLS & OTHERS

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**PROGRAMMING** | Python, R (basic).

**RESEARCH** | Survey creation, Psychometric analysis, Statistical modelling, Project management, Project proposal writing, Report writing, Neo and Nix data management (basic).

**COURSES** | Psychobiology (neuroanatomy), Neuroscience I (neurophysiology), Neuroscience II (neuropathology), Cognitive neuroscience and neuropsychology, Differential calculus, Artificial intelligence: Machine Learning (UCAB); Machine learning applications to Psychology and Neuroscience (Humai).

**LANGUAGES** | Spanish (native), English (advanced writing and conversational skills), French (basic).

**INTERESTS** | Cats, Nature, Cooking, Fashion, Volleyball, Football (the one you play with your feet).