

Axel Emanuel Casas

PHD STUDENT · EVOLUTIONARY COGNITION

Ruhr University, Bochum, Germany

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Skills

Programming: Python, R, MATLAB, SQL, HTML

Technologies & Tools: PyTorch, TensorFlow, scikit-learn, Git, PsychoPy, Streamlit, Excel, Tableau, Audacity

Methods: fMRI, behavioral experiments, machine learning, statistical modeling, bioacoustics

Education

Ruhr University

PHD EVOLUTIONARY COGNITION

- Topic: Social Cognition in Pigeons
- Advisor: Dr. Onur Güntürkün

Bochum, Germany

October 2024 - Now

University of Buenos Aires

BSC UNDERGRADUATE DEGREE

- Minors in Neuroscience
- Honors thesis/undergrad research advisor: Dr. Diego Golombek and Lic. Iair Embon

Buenos Aires, Argentina

August 2018 - February 2024

Open Inter-american University

DIPLOMA IN COGNITIVE NEUROSCIENCE

- Advisor: Lic. Agustín Saenz Ballesteros

Buenos Aires, Argentina

April 2021 - December 2021

National University of Córdoba

DIPLOMA IN BIostatISTICS APPLIED IN R ENVIRONMENT

- Data Science

Córdoba, Argentina

August 2021 - December 2021

Stanford University

MACHINE LEARNING SPECIALIZATION

- Machine Learning

Coursera

December 2023

Google

DATA ANALYTICS PROFESSIONAL CERTIFICATE

- Data Analysis

Coursera

March 2021

Instituto General Pacheco

HIGH SCHOOL DIPLOMA

- Orientation in Economy

Buenos Aires, Argentina

March 2009 - December 2015

Professional Experience

2026-Now **Research Assistant (Computer Vision and Machine Learning Coordinator)**, Ruhr University Bochum, Germany
2025-Now **Teaching Assistant Seminars of Cognitive Neuroscience**, Ruhr University Bochum, Germany
2024-Now **Mentor Diploma in Cognitive Neuroscience**, Neurotransmitiendo
2024-2024 **Content Data Analytics Coordinator**, The Walt Disney Company
2024-2024 **Project Management**, Robin Labs
2023-2024 **Undergraduate Research Assistant**, Comparative Psychology Lab, IBYME, CONICET
2021-2024 **Board Member**, Neurotransmitiendo
2022-2023 **Undergraduate Research Assistant**, LITERA, University of San Andrés
2020-2021 **Undergraduate Research Assistant**, Laboratory of Consciousness, IFIBYNE, CONICET
2021-2024 **Events Coordinator**, Neurotransmitiendo
2021-2023 **Digital Marketing Coordinator**, Neurotransmitiendo
2023-2023 **Waiter**, Captain Cook Cruises, Sydney, NSW, Australia
2022-2023 **Warehouse Labourer**, Swift Personnel, Sydney, NSW, Australia
2019-2020 **Housekeeping Team Leader**, Moonlight Basin, Montana, USA

Publications

PUBLISHED

Coldeira, M. F., Lescano-Charreau, V., **Casas, A. E.**, Casiraghi, L. P., Spiouzas, I., Morán, T. M. del C., Iparraguirre, G., Golombek, D. (2024). La promoción del sueño a través de las ciencias del comportamiento como una política pública. *Revista Argentina De Ciencias Del Comportamiento*, 16(1), 18–37. <https://doi.org/10.32348/1852.4206.v16.n1.446>

Casas, A. E., Gerbaudo, M. A., Ballesteros, A. S., Freistav, M. C., Furchi, A. G., Grinberg, M., ... Bruno, N. M. (2025, April 25). Does Clinical Evidence Reach Psychological Treatments? *Psychotherapy Status in Argentina*. https://doi.org/10.31234/osf.io/vsftx_v1

Awards, Fellowships, & Grants

2025 **Diversity, Equity, and Inclusion Scholarship**, O'Reilly
2024 **Doctoral Scholarship**, DAAD
2023 **Second Place Hackathon**, NeuroTechX Global
2022 **Tsinghua Summer School Scholarship**, University of Buenos Aires
2018-2023 **PROGRESAR Scholarship**, Government of Argentina
2015 **Second Place Football Award League**, Argentinian Youth League
2014, 2015 **First Prize Chess Tournament**, General Pacheco Institute

Presentations

POSTERS

Casas, AE. 2023. Daylight Exposure and Digital Device Use: how they affect Chronotypes and Sleep Quality. Argentine Association of Behavioral Science (AACC) Congress, Buenos Aires, Argentina.

Casas, AE. 2021. Our clocks in pandemic: a Study on the Disruption of circadian Rhythms and its Relationship to Sunlight Exposure and Digital Device Use. Argentine Society in Neurosciences (SAN) Congress, Buenos Aires, Argentina.

Casas, AE. 2021. Our clocks in pandemic: a Study on the Disruption of circadian Rhythms and its Relationship to Sunlight Exposure and Digital Device Use. XXI International Congress of Research and Professional Practice in Psychology, Buenos Aires, Argentina.

WORKSHOPS

Gerbaudo MA., **Casas, AE.**, Bruno, NM., Correa Freisztav, M., D'Amelio, TA., Giordano Furchi, A. (2023). Beyond Experience: The Role of Scientific Evidence in Argentine Psychotherapy. Association of Behavioral Science (AACC) Congress, Buenos Aires, Argentina.

Casas, AE., Gerbaudo MA., Bruno, NM., Correa Freisztav, M., D'Amelio, TA., Giordano Furchi, A. (2023). Scientific communication in Psychology and Neurosciences: Challenges and Strategies. Association of Behavioral Science (AACC) Congress,

Buenos Aires, Argentina.

Casas, AE., D'Amelio, TA., Bruno, NM., Coldeira MF., Vera Perez, M. (2023) Neurotech and Psychology: How can Artificial Intelligence and Neurosciences be used to study human behavior? Workshop presented at Argentine Association of Behavioral Science Congress.

Casas, AE., D'Amelio, TA., Bruno, NM., Coldeira MF., Vera Perez, M. (2023) Neurotech and Psychology: How can Artificial Intelligence and Neurosciences be used to study human behavior? Workshop presented at International Congress of Research and Professional Practice in Psychology

Casas, AE., Lax, G. (2022). "Reality is not what it seems: Optical Illusions and Perception". Workshop presented at International Congress of Research and Professional Practice in Psychology

Casas, AE., "Light, Time and Behavior: relationship between daytime and digital light exposure with our chronotypes". Workshop presented at International Congress of Research and Professional Practice in Psychology

Casas, AE., Recart, E., País, A. (2021). "Understanding Consciousness: Information Integration Theory and Global Neural Workspace Theory". Workshop presented at International Congress of Research and Professional Practice in Psychology

Sainz Ballesteros, A., Chianetta, M., Correa Freisztav, M., **Casas, AE.**, Recart, E., País, A., Bruno, NM., Andreau JM. (2020). "Can Aesthetic Judgments Be Unconsciously Modulated? An Affective Priming Study Measuring Pupil Reactivity". Workshop presented at International Congress of Research and Professional Practice in Psychology

PUBLIC TALKS AND CONFERENCES

Casas, AE., (2023). "What can animals teach us and how artificial intelligence will help understanding them". Seminar presented at NeuroX Seminars organized by NeuroTech Buenos Aires.

Gerbaudo, MA., Embón, I., Casas, AE. (2022) "Dissemination of Scientific Psychology and Neurosciences: Essential or Superfluous?". Public talk presented at Faculty of Psychology, University of Cordoba.

Casas, AE., Correa Freisztav, M. (2022). "Why do we sleep and why is it important for health". Public Talk presented at Faculty of Psychology, University of Buenos Aires.

Casas, AE., Monsalvo, S., Ferrelli, I. (2022). "What do I care about neuroscience?". Public talk presented at Faculty of Psychology, University of Buenos Aires.

Correa Freisztav, M., Gerbaudo, MA., Casas, AE. (2022). "Behaviorism of everyday life: why we do what we do". Public Talk presented at Faculty of Psychology, University of Buenos Aires.

Canziani, V., Sterpin, L., Casas, AE. (2021). "What do I care about neuroscience?,". Public Talk presented at Faculty of Psychology, University of Buenos Aires.

Teaching Experience

2026	Social Cognition Lecture , Invited Lecturer, IFSA Argentine Universities Program	Buenos Aires, Argentina
2025-Now	Seminars of Cognitive Neuroscience , Teaching Assistant	Germany
2023-Now	Diploma in Cognitive Neuroscience , Mentor	Argentina
2023-2023	Diploma in Cognitive Neuroscience and Experimental Psychology , Coordinator	Argentina
2019-2024	Neurophysiology , Teaching Assistant, Faculty of Psychology, University of Buenos Aires	Argentina
2022-2024	Research Methodology , Teaching Assistant, Faculty of Psychology, University of Buenos Aires	Argentina
2022-2023	Applied Neurophysiology , Teaching Assistant, Faculty of Psychology, University of Buenos Aires	Argentina
Fall 2021	Neuroanatomy , Teaching Assistant, Faculty of Psychology, University of Buenos Aires	Argentina
Fall 2021	Psychophysiological Methods , Teaching Assistant, Faculty of Psychology, University of Buenos Aires	Argentina

Mentoring

2025	Difference between connectivity networks in focal and generalized pediatric epilepsy during deep sleep , Neurotransmitiendo	Buenos Aires, Argentina
2025	Partial sleep deprivation and its effect on executive functions in healthy adolescents, assessed by EEG and cognitive performance tasks. , Neurotransmitiendo	Buenos Aires, Argentina
2025	Effect of religious practice on the physiological response to stressful stimuli , Neurotransmitiendo	Buenos Aires, Argentina
2025	Relationship between depressive symptoms, executive functions, and frontal lobe activation using fMRI in older adults , Neurotransmitiendo	Buenos Aires, Argentina
2024	The Neural Correlates Of Nightmares , Neurotransmitiendo	Buenos Aires, Argentina
2024	Alcohol, amphetamines and drivers' risk of accidents , Neurotransmitiendo	Buenos Aires, Argentina
2024	Effects of psilocybin and therapy focused on Compassion on Empathy , Neurotransmitiendo	Buenos Aires, Argentina
2024	Neuronal Recycling In A Motor Task , Neurotransmitiendo	Buenos Aires, Argentina
2023	Mind-Wandering And Future Perception , Neurotransmitiendo	Buenos Aires, Argentina
2023	Pain Treatment Using Virtual Reality , Neurotransmitiendo	Buenos Aires, Argentina
2023	Anxiety Traits Prediction in University Students , Neurotransmitiendo	Buenos Aires, Argentina
2022	Effectiveness Of Cognitive Behavior Therapy In Borderline Personality Disorder , University of Buenos Aires	Buenos Aires, Argentina
2022	The Neural Correlates of Gaming Using fMRI , University of Buenos Aires	Buenos Aires, Argentina

Outreach & Professional Development

SERVICE AND OUTREACH

2022-now	Aves Argentinas , Member	Argentina
2022-2023	Argentine Association of Neurosciences (AACC) , Webinars Organizer	Argentina
2023-2023	NeuroTechX , Seminar Organizer	Argentina
2022-2024	Student Movement for Scientific Psychology (MEPC) , Board Member	Argentina
2021-2022	Cognitive Seminars IFIBYNE , Seminars Organizer	Argentina

LANGUAGES

Spanish (C2)
English (C1)
German (B1)