

Diego Ignacio Garrido Cerpa

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Research Interests

- Computational modeling of cognitive and behavioral processes
- Prosocial behaviors in socioeconomically vulnerable populations
- Probabilistic choices in causal reasoning
- Neurophysiological measures (EEG, ERP, and fMRI)

Education

Ph.D. in Social and Cognitive Neuroscience <i>Universidad Adolfo Ibáñez</i>	2026–2030
Higher-Level Technician in Programming <i>Instituto Profesional IPG</i>	2024–2025
Master's in Social and Cognitive Neuroscience <i>Universidad Adolfo Ibáñez</i>	2023
Bachelor's degree in Psychology <i>Universidad Adolfo Ibáñez</i>	2019–2023

Research Experience

Research Assistant — Posterior Uncertainty and Human Probabilistic Inference, Universidad Adolfo Ibáñez — FONDECYT 1260939

PI: Sergio E. Chaigneau & Nicolás Marchant

April 2026 – ongoing

- Integrate and implement computational models used in the project
- Program software for experimental stimulus presentation and support data collection
- Maintain project databases and generated study files

Laboratory Technician & Research Assistant — ESD Lab / Neurocognitive Mechanisms of Prosocial Behavior in Socioeconomically Vulnerable Populations, Universidad Adolfo Ibáñez — FONDECYT 11250611

PI: Sebastián Contreras-Huerta & Felipe Rojas

April 2025 – ongoing

- Maintain lab computers, EEG systems, and eye-tracking equipment;
- Develop computational models of prosocial behavior, formalizing theoretical frameworks
- Program experimental tasks and train undergraduate students

Research Assistant — Conociendo las causas de las fallas sistemáticas en el razonamiento causal mediante la comparación de modelos computacionales cognitivos, Pontificia Universidad Católica de Valparaíso — FONDECYT 11250063

PI: Nicolás Marchant

April 2025 – ongoing

- Design experimental tasks to test causal inference and Markov violations in causal chains
- Perform statistical analyses of behavioral data to evaluate model fit

Programmer & Research Assistant — Valparaíso Neural Dynamics Laboratory / Emergence of Collective Behavior in Learning Neural Networks, Universidad de Valparaíso — FONDECYT 11241469

PI: Patricio Orio

October 2025 – February 2026

- Verify and optimize existing scripts
- Process fMRI signals and conduct in-depth analysis of fMRI data
- Support technical programming across multiple computational neuroscience projects

Research Assistant — Efecto de las señales contextuales emocionales en el reconocimiento de las emociones: Un estudio bimodal con EEG, Universidad Católica del Maule — Proyecto ANID Folio 85220048

PI: Cristian Cortés-Rivera, Mónica Toro

May 2025 – August 2025

- Developed and implemented a complete EEG preprocessing pipeline for the experimental requirements
- Resolved technical issues and ensured full compatibility between the GSN HydroCel EEG cap

Research Assistant — Bridge Project Proyecto Puente, Internal Funds of Universidad Adolfo Ibáñez

PI: Felipe Rojas

April 2025 – December 2025

- Supported data collection with the Chilean Navy
- Conducted workshops for undergraduate students to the lab's research focus and technological equipment

Research Assistant — Examining real face processing using mobile EEG and wearable eye-tracking, Universidad Adolfo Ibáñez — FONDECYT 11221227

PI: Vicente Soto

March 2024 – April 2025

- Assisted with EEG data analysis
- Helped collect data for international collaborations with the Università di Trento
- Trained international colleagues in statistical analysis using RStudio

Research Assistant — Meditación como estrategia de autorregulación en estudiantes de medicina, Universidad Andrés Bello

PI: Ricardo Ramírez

August 2024 – November 2025

- Collected behavioral and EEG data at the Faculty of Medicine, Universidad Andrés Bello
- Conducted EEG signal processing and statistical evaluation of behavioral performance
- Trained undergraduate students in EEG data collection procedures

Programmer — ANIDA, School of Psychology, Universidad Adolfo Ibáñez — ID514862-84-LP23

PI: Josefina Escobar, Carolina Panesso

October 2023 – February 2024

- Designed a participant questionnaire using PsyToolkit
- Built a database to store and manage participant responses
- Conducted statistical analyses across schools in the Peñalolén commune

Internship — Examinando el impacto de la meditación en funciones cognitivas alteradas en estudiantes universitarios con Burnout (UAI, UNAB, UST & UDD)

PI: Ricardo Ramírez, Joaquín Araya, Vicente Soto, Felipe Rojas, Nerea Aldunate & Nicolás Marchant

September 2023 – September 2024

- Collected mobile EEG data from 80 participants at Santo Tomás and Andrés Bello universities

- Conducted data cleaning and statistical analyses of the entire dataset
- Ensured high-quality signal processing, producing reliable results for subsequent interpretation

Internship — The Heart and Brain of Natural Compassion: A Systematic Review and Meta-Analysis, CSCN, Universidad Adolfo Ibáñez

PI: Kevin Blanco, Vicente Soto ´, Giovanni Sala & David Martínez-Pernía March 2023 – March 2024

- Screened a database of over 5.000 scientific articles against predefined inclusion/exclusion criteria for a systematic review and meta-analysis
- Contributed to a manuscript now under review (see Publications)

Master’s Thesis

Restorative effects on attention of natural environments and social media

Supervisors: Nicolás Marchant & Vicente Soto

March 2023 – December 2023

- Designed and implemented an experimental task investigating attentional processes in social media videos
- Conducted data collection and performed statistical analyses to interpret results
- Wrote up all stages of the project as a complete master’s thesis

Poster Presentations

- **Diego Garrido**, Nicolás Marchant & Vicente Soto. (2023). *Restorative effects on attention of natural environments and social media*. Annual Research Week Exposition, UAI, Santiago, Chile.
- **Diego Garrido**, Xaviera Arenas, Ellen Riquelme, Lukas Barrera & Vicente Soto. (2024). *Robots & Behavior: A Systematic Review of Current Research*. Annual Research Week Exposition, UAI, Santiago, Chile.
- Antonia Olguí, Martín Montesinos, **Diego Garrido**, Nicolás Marchant, Sergio Chaigneau & Vicente Soto. (2025). *Modulación del componente FRN a diferentes grados de certeza en una tarea de aprendizaje de categorías probabilísticas*. Congreso de la Sociedad Científica de Psicología de Chile (SCP), Universidad San Sebastián, Valdivia, Chile.
- Cristian Cortés-Rivera, Mónica Toro, **Diego Garrido** & Francisco Ceric. (2025). *Efecto de las señales contextuales emocionales en el reconocimiento de las emociones: Un estudio bimodal con EEG*. Congreso de la Sociedad Científica de Psicología de Chile (SCP), Universidad San Sebastián, Valdivia, Chile.
- Cristian Cortés-Rivera, Mónica Toro, **Diego Garrido** & Francisco Ceric. (2025). *Correlatos neurofisiológicos de los rasgos afectivos: un estudio de EEG en reposo en adultos no clínicos*. Congreso de la Sociedad Científica de Psicología de Chile (SCP), Universidad San Sebastián, Valdivia, Chile.
- Nicolás Marchant, **Diego Garrido** & Sergio Chaigneau. (2026). *Causal (In)efficiency: Breaking Markov violations through structural uncertainty in causal chains*. Cognitive Science Society, Sheraton Grand Rio Hotel & Resort, Rio de Janeiro, Brazil.

Publications in Preparation

- Kevin Blanco, Vicente Soto, **Diego Garrido**, Giovanni Sala & David Martínez-Pernía. “The Heart and Brain of Natural Compassion: Bridging Neural, Physiological, and Subjective Evidence through a Systematic Review and Meta-Analysis.” (*Submitted*)
- Nicolás Marchant, **Diego Garrido**, Martín Montesinos, Antonia Olguí, Vicente Soto & Sergio Chaigneau. “Integrating Behavioral, Eye-Tracking, and Electrophysiological Measures in Probabilistic Category Learning.” (*Submitted*)

- **Diego Garrido**, David Huepe, Felipe Rojas-Thomas, José Bórquez, Roberto García, Fiorella Macchiavello, Consuelo Ruiz, Matthew A. J. Apps & Luis Sebastián Contreras-Huerta. “Socioeconomic vulnerability reshapes the psychological correlates of prosocial effort.” (*In Preparation*)

Published

- Felipe Rojas-Thomas, Ignacia Cantwell, Claudio Artigas, **Diego Garrido**, Jessica Goset, María José Olivares, Joaquín Araya, Benjamín Ibáñez, Antonella Pereira, María Carolina Otero, Luis Sebastián Contreras-Huerta & Ricardo Ramírez-Barrantes. “Yoga-based meditation improves self-regulation and well-being in medical students: A pilot study.” *Frontiers in Human Neuroscience*. <https://doi.org/10.3389/fnhum.2026.1844429>
- Nicolás Marchant, **Diego Garrido** & Sergio E. Chaigneau. “Causal (In)efficiency: Breaking Markov Violations Through Structural Uncertainty in Causal Chains.” *Proceedings of the 48th Annual Meeting of the Cognitive Science Society*, Rio de Janeiro, Brazil, 2026.

Teaching Experience

Co-Tutoring — Master’s Thesis, Universidad Adolfo Ibáñez

Co-tutor of José Bórquez’s thesis

March 2025 – ongoing

Teach programming languages such as RStudio and Python to implement statistical methods for extracting results, elaborating graphs, mixed linear model techniques (linear and logistic regressions) and computational modeling of prosocial behaviors.

Teaching Assistant — Neural Basis of Behavior, Universidad Adolfo Ibáñez

Prof. Dr. Ricardo Ramírez

July 2025 – December 2025

Corrector assistant: created evaluation materials with corresponding guidelines, provided feedback, addressed student inquiries, and facilitated student-teacher communication.

Teaching Assistant — Introduction to Cognitive Science, Universidad Adolfo Ibáñez

Prof. Dr. Constanza Baquedano

March 2024 – June 2024

Corrector assistant: created evaluation materials with corresponding guidelines, provided feedback, addressed student inquiries, and facilitated student-teacher communication.

Tutoring — Best Tutor on Campus 2023, Universidad Adolfo Ibáñez

Introduction to Cognitive Sciences; Psychology of Learning; Cognition, Emotion and Decision-Making

March 2023 – June 2023

Tutor of three first-year psychology courses, teaching a weekly class on each subject and addressing students’ questions and concerns. Chosen as the best tutor on campus that semester.

Certifications

- **Data Science and Machine Learning Bootcamp with R** — Udemy, instructor Jose Portilla. Feb. 2024 (18 hours)
- **The Art of Doing: Video Game Creation with Python and Pygame** — Udemy, instructor Michael Eramo. Feb. 2025 (17.5 hours)
- **Data Analysis with Python** — freeCodeCamp. Sept. 2023 (approx. 300 hours)

References

- **Dr. Sebastián Contreras** — Researcher and Professor, School of Psychology, Universidad Adolfo Ibáñez.
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- **Dr. Vicente Soto de Amesti** — Researcher and Professor; Director of the Master's Program in Cognitive and Social Neuroscience, School of Psychology, Universidad Adolfo Ibáñez.
(+56) 944900571 | vicente.soto.d@uai.cl
- **Dr. Nicolás Marchant** — Researcher and Professor, School of Psychology, Pontificia Universidad Católica de Valparaíso.
(+56) 990133779 | nicolas.marchant@pucv.cl