



Roberto García

Behavioral Psychologist
at Universidad Diego Portales.

- Date of Birth:** Jul. 12, 1989
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Interests

- Computational Modeling
- Reinforcement Learning
- Decision-Making Models
- Graph Theory and Network Science
- Applied Machine Learning
- Natural Language Processing
- Experimental Design

Skills

Programming:

- Python ●●●●●
- R ●●●●●
- Bash scripting ●●●●●
- Julia ●●●●●
- MATLAB, C ●●●●●
- Javascript ●●●●●

Tools:

- Linux ●●●●●
- Pytorch, Spacy ●●●●●
- Excel, Excel VBA ●●●●●
- Latex ●●●●●
- SPSS ●●●●●
- Stata ●●●●●

Working Experience

- Dic, 2025 – ongoing **Lab Technician** Viña del Mar, Chile
Working as an Laboratory Technician at Emotion and Social Decisions Lab (ESD-Lab), Universidad Adolfo Ibáñez.
- Nov, 2024 – ongoing **Assistant professor** Santiago, Chile
Assistant professor of Methodological Seminar IV at PhD in Neurosciences, Universidad Adolfo Ibáñez.
- Mar, 2020 – ongoing **Professor** Santiago, Chile
Professor of Cinema, Psychology and Neuroscience at Universidad Diego Portales.
- Mar, 2015 – 2020 **Professor** Santiago, Chile
Professor of Neuroeconomy at Universidad Diego Portales.
- Sep, 2018 – Aug, 2020 **Statistical Programmer** Santiago, Chile
Working as an Statistical Programmer at Neurodynamics of Cognition Laboratory, School of Medicine, Pontificia Universidad Católica de Chile.
- May, 2016 – Dic, 2017 **Statistical Programmer** Santiago, Chile
Working as an Statistical Programmer at Centre for Cognitive and Social Neuroscience (CSCN), Universidad Adolfo Ibáñez.
- May, 2014 – Dic, 2017 **Statistical Programmer** Santiago, Chile
Working as an Statistical Programmer at Neuroeconomics Centre, School of Economics and Business, Universidad Diego Portales
- May, 2014 – Dic, 2015 **Research Assistant** Santiago, Chile
Working as an Statistical Programmer at Cognitive and Social Neuroscience Laboratory (LaNCySUDP); UDP Nucleus - INECO Foundation for Neurosciences (NUFIN), Universidad Diego Portales.

Research Experience

- Mar, 2015 – Dic, 2016 **Statistical Programmer** Santiago, Chile
FONIDE F911424. Caracterización y prejuicio acerca de los inmigrantes en el sistema escolar.
- Mar, 2015 – Dic, 2017 **Statistical Programmer** Santiago, Chile
FONIDE REGULAR 1140114. Inteligencia fluida, cognición social y cambio de perspectiva como predictores de adaptabilidad psicosocial en contextos vulnerables.
- Mar, 2015 – Dic, 2015 **Statistical Programmer** Santiago, Chile
FONIDE REGULAR 1130620. La construcción del contrato musical en la experiencia acusmática: desde las gramáticas de composición hacia la emergencia de una comunidad acusmática.
- Mar, 2016 – Dic, 2016 **Statistical Programmer** Santiago, Chile
FONIDE REGULAR 1150824. Comunicación e interpretación de pruebas diagnósticas: variables conductuales y fisiológicas del razonamiento bayesiano.
- Mar, 2017 – Dic, 2018 **Statistical Programmer** Santiago, Chile
FONIDE REGULAR 1161715. Identificación e intervención de mecanismos neurocognitivos asociados a la compra impulsiva en jóvenes.
- Mar, 2018 – Dic, 2018 **Statistical Programmer** Santiago, Chile
FONIDE REGULAR 1180932. Phenylketonuria as a window to examine the role of catecholamines in attention deficit hyperactivity disorder.
- Mar, 2018 – Dic, 2018 **Statistical Programmer** Santiago, Chile
FONIDE REGULAR 1140996. Control of attention in neuropsychiatric disorders: effect of catecholaminergic treatment during goal-directed behavior in ADHD and major depression.
- Mar, 2019 – Dic, 2019 **Statistical Programmer** Santiago, Chile
Claro, S., & Ossandon, T. (2019). Neurociencia de la motivación escolar. Propuestas para Chile, 225.
- Mar, 2016 – Dic, 2016 **Statistical Programmer** Santiago, Chile
Proyecto Sura SOS N 7626. Predictors of saving behavior.

Languages

Spanish (Mother Tongue)

English (iBT:52, 2022)

Education

Postgraduate Studies

2018 – 2019 **Ph.D. Student in Education (incomplete)** **Santiago, Chile**
Institution: Universidad Andres Bello
Supervisors: Prof. Andres Mendiburo, Prof. Juan Carlos

Undergraduate Study

2022 – ongoing **Informatics Engineering** **Santiago, Chile**
Institution: Universidad Diego Portales

2011 – 2017 **Psychology** **Santiago, Chile**
Institution: Universidad Diego Portales

2008 – 2011 **History (incomplete)** **Santiago, Chile**
Institution: Pontificia Universidad Catolica

Other Training

May 2022 **Applied Machine Learning Diploma** **Santiago, Chile**
Institution: Pontificia Universidad Catolica

References

- Ref. 1 **Miguel Fuentes, Researcher in Instituto de Sistemas Complejos de Valparaíso.** Valparaíso, Chile
fuentesm@santafe.edu
- Ref. 2 **Dr. Tomás Ossandón, Director of Neurodynamics of Cognition Laboratory. Chile, Pontificia Universidad Católica.** Santiago, Chile
tossandonv@uc.cl
- Ref. 3 **Professor David Huepe Director of Center of Social & Cognitive Neuroscience. Chile, Universidad Adolfo Ibañez.** Santiago, Chile
david.huepe@uai.cl

Publications and Conferences

- Lavin, C., Fuentes, M., Contreras-Huerta LS., García, R., Miguel, H., (2026). Mood-Biased Reinforcement Learning Enhances Adaptive Flexibility Under Uncertainty. (Manuscript)
- Garcia, R. (2025). IA en la investigación en psicología y psicoterapia: Más allá de los chatbots [Conferencia]. Seminario: El uso de la inteligencia artificial y su impacto en la educación — Diálogos Interdisciplinarios, Departamento de Psicología, Universidad Autónoma de Chile.
- Lavín, C., García, R., Fuentes, M. (2024). Navigating Uncertainty: The Role of Mood and Confidence in Decision-Making Flexibility and Performance. *Behavioral Sciences*, 14(12), 1144.
- Juan-Pablo Morales; Daniel O'byrne; Roberto García; Daniela Huepe; Paola Solano Duran; Felipe Rojas; David Huepe. (2026) Exploratory Network Analysis for Interoceptive Awareness and Social Cognition. The Social-cognitive Implications of Interoceptive Awareness. (Manuscript)
- Garcia, R. (2022). Evaluación de pacientes artificiales en el dominio de la salud mental [Conferencia]. PyDay 2022
- Garcia, R. (2018). Positively biased asymmetric integration of information modulates neural and behavioral markers of objective and subjective performance in reversal learning [Conferencia]. Primera jornada chilena de neurociencia computacional. Valparaiso, Chile.
- Santander, D., García, R., Valdés, J., Medel, V., Domic, M., Arias, C., Ossandón, T. (2018). Electrophysiological changes subsequent to a Learning process during a visuo-spatial working memory task: the effect of catecholaminergic imbalance. En Federation of European Neuroscience Societies (FENS 2018).
- Lillo M, García R, Navarrete G (2015). The effect of visual support and causal content in Bayesian inference. Conference Abstract: 17th International Conference on Philosophy, Psychiatry and Psychology.
- Canales-Johnson A, Cabezas D, Silva C, Olivares F, García R, Rivera-Rei A, Noreika V, Huepe D, Carlyon R and Bekinschtein T (2015) Induced gamma-band activity signals awareness of change in a bistable percept during wakefulness but changes dynamics with sleep onset. *Front. Hum. Neurosci.* Conference Abstract: XII International Conference on Cognitive Neuroscience (ICON-XII). doi: 10.3389/conf.fnhum.2015.217.00062.
- García R, Contreras-Huerta LS, Lavin C, (2014). Respuestas pupilares de esfuerzo mental permiten estimar tendencia al sesgo de confirmación: Una propuesta experimental [Conferencia]. V Coloquio Lenguaje y Cognición. Universidad de Chile. Santiago, Chile.