Curriculum Vitae
Guillermo Antonio Puebla Ramírez

Información de contacto

Email: pueblaramirezg@gmail.com
Sitio web: guillermopuebla.com
ORCID: 0000-0001-7002-7776
Scholar: bit.ly/guillermo-puebla

Experiencia profesional

Profesor Asistente — Santiago, Chile
Escuela de Administración y Negocios, Universidad de Tarapacá — 2024 - Presente

Investigador Postdoctoral — Santiago, Chile
Centro Nacional de Inteligencia Artificial — 2023

Investigador Postdoctoral — Bristol, Reino Unido
School of Psychological Science, University of Bristol — 2021 - 2022

Afiliaciones

Honorary Assistant Professor of NeuroAI — Bristol, Reino Unido
School of Psychology and Neuroscience, University of Bristol — 2026 - Presente

Colaborador Asociado — Santiago, Chile
Centro Nacional de Inteligencia Artificial — 2024 - Presente

Educación

PhD in Psychology — Edinburgh, Reino Unido
University of Edinburgh — 2022

MPhil in Psychology — Brisbane, Australia
University of Queensland — 2015

Licenciado en Psicología — Arica, Chile
Universidad de Tarapacá — 2008

Fondos de investigación concursables

3D symmetry perception and shape constancy in infants and deep neural networks — Chile
Investigador Principal — 2024-2027
Proyecto Fondecyt de Iniciación No. 11241282, ANID

El efecto del encuadre conversacional sobre la detección de desinformación en LLMs — Chile
Investigador Principal — 2026-2028
Proyecto UTAMAYOR No. 8760-26, Universidad de Tarapacá

A new look at human innovation: decoding the brainwaves and behaviors behind — Chile
Coinvestigador (IP Felipe Munoz-Rubke) — 2025-2029
Proyecto Fondecyt de Exploración No. 13250033, ANID

El rol de procesamiento heurístico y deliberativo de la información, la receptividad y el escepticismo ingenuo, en la susceptibilidad a la desinformación en el ámbito Chile
Coinvestigador (IP Rodrigo Ferrer-Urbina) 2022-2024
Proyecto Fondecyt Regular No. 1220664, ANID

Un modelo descriptivo para la clasificación causal Chile
Coinvestigador (IP Sergio Chaigneau) 2019-2022
Proyecto Fondecyt Regular No. 1190006, ANID

Becas recibidas

Beca de Doctorado en el Extranjero, Becas Chile Chile
Agencia Nacional de Investigación y Desarrollo 2018-2022

Beca de Magíster en el Extranjero, Becas Chile Chile
Agencia Nacional de Investigación y Desarrollo 2013-2015

Preprints & en preparación

Puebla, G., Yamamoto, A., & Vergara, J. (2026). Conversational Framing Modulates LLMs' Misinformation Detection. *Manuscrito en preparación*. guillermopuebla.com/assets/pdf/misinformation_LLMs.pdf

Bowers, J. S., Puebla, G., Thorat, S., Tsetsos, K., & Ludwig, C. J. H. (2026). On the misuse of prediction in NeuroAI: A case study of Centaur. *PsyArXiv Preprint*. doi: 10.31234/osf.io/v9w37_v5

Bowers, J. S., Vankov, I., Adolfi, F. G., Heaton, R. F., & Puebla, G. (2026). What have we learned about human reasoning from large reasoning models? Response to de Varda et al. *PsyArXiv Preprint*. doi: 10.31234/osf.io/3ef2x_v1

Biscione, V., Yin, D., Malhotra, G., Dujmovic, M., Montero, M. L., Puebla, G., Adolfi, F., Heaton, R. F., Hummel, J. E., Evans, B. D., et al. (2026). MindSet: Vision. A toolbox for testing DNNs on key psychological experiments. *arXiv preprint*. doi: 10.48550/arXiv.2404.05290

Puebla, G., & Doumas, L. A. (2025). Learning Rules from Rewards. *arXiv preprint*. doi: 10.48550/arXiv.2203.13599

Artículos en revistas con revisión de pares

Puebla, G., Ferrer, R., Perez-Zapata, D., Alarcón-Castillo, K., Sepúlveda-Páez, G., & Elgueta, H. (2026). Cognitive Load and Individual Differences as Drivers of Health-Related Misinformation: A Signal Detection Approach. *PLoS One*. guillermopuebla.com/assets/pdf/pone.0356642.pdf

Vankov, I., Adolfi, F., Heaton, R. F., Puebla, G., & Bowers, J. S. (2026). Correlations Without Causation do not support Claims of Human–LLM Reasoning Alignment. *Proceedings of the National Academy of Sciences*, *123*(12), e2536362123. doi: 10.1073/pnas.2536362123

Marchant, N., Puebla, G., & Chaigneau, S. E. (2025). Rules in the mist: Emerging probabilistic rules in uncertain categorization. *Cognition*, *264*, 106264. doi: 10.1016/j.cognition.2025.106264

Puebla, G., & Bowers, J. S. (2025). Visual reasoning in object-centric deep neural networks: A comparative cognition approach. *Neural Networks*, *189*, 107582. doi: 10.1016/j.neunet.2025.107582

Fong, F. T., Puebla, G., & Nielsen, M. (2024). The role of conventionality and design in children's function judgments about malfunctioning artifacts. *Journal of Experimental Child Psychology*, *240*, 105835. doi: 10.1016/j.jecp.2023.105835

Bowers, J. S., Malhotra, G., Adolfi, F. G., Dujmović, M., Montero, M. L., Biscione, V., Puebla, G., Hummel, J., & Heaton,

R. F. (2023). On the importance of severely testing deep learning models of cognition. *Cognitive Systems Research*, *82*, 101158. doi: 10.1016/j.cogsys.2023.101158

Bowers, J. S., Malhotra, G., Dujmović, M., Montero, M. L., Tsvetkov, C., Biscione, V., Puebla, G., Adolfi, F., Hummel, J. E., Heaton, R. F., & et al. (2023). Clarifying status of DNNs as models of human vision. *Behavioral and Brain Sciences*, *46*, e415. doi: 10.1017/S0140525X23002777

Bowers, J. S., Malhotra, G., Dujmović, M., Llera Montero, M., Tsvetkov, C., Biscione, V., Puebla, G., Adolfi, F., Hummel, J. E., Heaton, R. F., & et al. (2023). Deep problems with neural network models of human vision. *Behavioral and Brain Sciences*, *46*, e385. doi: 10.1017/S0140525X22002813

Puebla, G., & Bowers, J. S. (2022). Can deep convolutional neural networks support relational reasoning in the same-different task? *Journal of Vision*, *22*(11), 1-18. doi: 10.1167/jov.22.10.11

Doumas, L. A., Puebla, G., Martin, A. E., & Hummel, J. E. (2022). A theory of relation learning and cross-domain generalization. *Psychological Review*, *129*(5), 999. doi: 10.1037/rev0000346

Puebla, G., Martin, A. E., & Doumas, L. A. (2021). The relational processing limits of classic and contemporary neural network models of language processing. *Language, Cognition and Neuroscience*, *36*(2), 240-254. doi: 10.1080/23273798.2020.1821906

Chaigneau, S. E., Puebla, G., & Canessa, E. C. (2016). Why the designer's intended function is central for proper function assignment and artifact conceptualization: Essentialist and normative accounts. *Developmental Review*, *41*, 38-50. doi: 10.1016/j.dr.2016.06.002

Puebla, G., & Chaigneau, S. E. (2014). Inference and coherence in causal-based artifact categorization. *Cognition*, *130*(1), 50-65. doi: 10.1016/j.cognition.2013.10.001

Chaigneau, S. E., & Puebla, G. (2013). The Proper Function of Artifacts: Intentions, Conventions and Causal Inferences. *Review of Philosophy and Psychology*, *4*(3), 391-406. doi: 10.1007/s13164-013-0146-3

Actas de conferencia

Puebla, G., Diaz-Ramirez, J., Araya, D., Fuentes, G., & Bowers, J. S. (2026). Unlearnability of Symmetry-based Visual Relations by Deep Neural Networks. *9th Annual Conference on Cognitive Computational Neuroscience*. openreview.net/forum?id=m7Noyu1aQm

Marchant, N., Puebla, G., Quillien, T., & Chaigneau, S. E. (2024). Rationally uncertain: investigating deviations from Explaining Away and Screening Off in causal reasoning. *Proceedings of the Annual Meeting of the Cognitive Science Society*, *46*. escholarship.org/uc/item/31r8z1h8

Biscione, V., Yin, D., Malhotra, G., Dujmović, M., Montero, M. L., Puebla, G., Adolfi, F. G., Tsvetkov, C., Heaton, R. F., Hummel, J., Evans, B. D., & Bowers, J. S. (2023). Introducing the MindSet benchmark for comparing DNNs to human vision. *2023 Conference on Cognitive Computational Neuroscience*. 2023.ccneuro.org/view_paper35ce.html?PaperNum=1127

Puebla, G., & Bowers, J. S. (2023). The role of object-centric representations, guided attention, and external memory on generalizing visual relations. *2023 Conference on Cognitive Computational Neuroscience*. 2023.ccneuro.org/view_paperc93f.html?PaperNum=1499

Puebla, G., & Bowers, J. (2021). Can Deep Convolutional Neural Networks Learn Same-Different Relations? *Proceedings of the Annual Meeting of the Cognitive Science Society*, *43*. escholarship.org/uc/item/4d13996b

Doumas, L. A., Puebla, G., Martin, A. E., & Hummel, J. E. (2020). Relation learning in a neurocomputational architecture supports cross-domain transfer. *Proceedings of the Annual Meeting of the Cognitive Science Society*, *42*. escholarship.org/uc/item/35v29557

Puebla, G., Doumas, L. A., & Martin, A. E. (2019). The relational processing limits of classic and contemporary neural network models of language processing. *2019 Conference on Cognitive Computational Neuroscience*. 2019.ccneuro.org/Papers/

ViewPapersf802.html?PaperNum=1022

Doumas, L. A., Puebla, G., Hummel, J. E., & Martin, A. E. (2019). Predicate learning via neural oscillations supports one-shot generalization between video games. *2019 Conference on Cognitive Computational Neuroscience*. 2019.ccneuro.org/Papers/ViewPaperscecd.html?PaperNum=1112

Doumas, L. A., Hamer, A., Puebla, G., & Martin, A. E. (2017). A theory of the detection and learning of structured representations of similarity and relative magnitude. *Proceedings of the Annual Meeting of the Cognitive Science Society*, *39*. escholarship.org/uc/item/9z1890cr

Puebla, G., & Chaigneau, S. (2011). Is the Centrality of Design History Function an Effect of Causal Knowledge? *Proceedings of the Annual Meeting of the Cognitive Science Society*, *33*. escholarship.org/uc/item/1dk748w1

Cobertura en los medios

Glickman, K. (2025, 30 de diciembre). Computers are getting much better at learning to "see". *Knowable Magazine*. knowablemagazine.org/content/article/technology/2025/how-computers-are-getting-better-recognizing-images

O'Grady, C. (2025, 2 de julio). Researchers claim their AI model simulates the human mind. Others are skeptical. *Science Magazine*. doi: 10.1126/science.z6czuhe

Pavlus, J. (2021, 23 de junio). Same or Different? The Question Flummoxes Neural Networks. *Quanta Magazine*. www.quantamagazine.org/same-or-different-ai-cant-tell-20210623/

Tesis y trabajos de título supervisados

Reyes, M., Salinas, F., & Goldbaum, S. (2025). *3D symmetry perception in deep neural networks* [Trabajo de Título]. Ingeniería Civil Matemática y Computacional. Pontificia Universidad Católica de Chile

Vergara, J., Toledo, Á., & Yamamoto, A. (2025). *Susceptibility to misinformation in large language models* [Trabajo de Título]. Ingeniería Civil Matemática y Computacional. Pontificia Universidad Católica de Chile

Araya, D., Fuentes, G., Aguilar, G., & Sánchez, L. (2025). *Relational and compositional generalization in visual-processing deep neural networks* [Trabajo de Título]. Ingeniería Civil Matemática y Computacional. Pontificia Universidad Católica de Chile

Pérez-Zapata, D., & Sandoval-Díaz, J. (2009). *El rol del conocimiento causal en la formulación de los conceptos infantiles* [Tesis de pregrado]. Psicología. Universidad de Tarapacá

Docencia

Introducción a la Ciencia de Datos 2026
Pregrado, Universidad de Tarapacá

Introducción a la Inteligencia Artificial 2025
Pregrado, Universidad de Tarapacá

Introducción al Deep Learning 2025
Pregrado, Universidad de Tarapacá

Inteligencia Artificial Generativa y Modelos de Lenguaje 2024
Diplomado, Centro Nacional de Inteligencia Artificial

Métodos Cuantitativos de Análisis de Datos II 2009
Pregrado, Universidad de Tarapacá

Métodos Cuantitativos de Análisis de Datos I 2009
Pregrado, Universidad de Tarapacá

Revisor ad hoc

Revistas
Psychological Review, *Cognition*, *Philosophical Transactions of the Royal Society B*, *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *PLOS Computational Biology*, *Artificial Intelligence Review*, *Cognitive Science*, *Cognitive Systems Research*, *PLOS ONE*, *Vision Research*, *Transactions on Machine Learning Research*, *Machine Vision and Applications*, *Ciencias Psicológicas*, *Journal of Computational Neuroscience*

Fondo de Investigación Concursable
Dutch Research Council Social Sciences and Humanities Talent Programme

Miembro de mesa de trabajo

Seguridad e Inteligencia Artificial
Fundación Encuentros del Futuro, Senado de Chile 2025

Trabajo del Futuro
Fundación Encuentros del Futuro, Senado de Chile 2024

Organización de seminarios

Generalization in Mind & Machine Bristol, Reino Unido
https://mindandmachine.blogs.bristol.ac.uk/seminars 2022

Ciencias Cognitivas en Chile: Desarrollos Actuales Online
https://sites.google.com/view/cienciascognitivaschile 2021

Idiomas

Español Nativo

Inglés Avanzado

Actualizado: 25 de agosto de 2026