Pablo León-Villagrá

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21, Lakeside Apartments
University of Warwick
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Education

2015–2020	**Ph.D. University of Edinburgh** Thesis Title: Representational Principles of Function Generalization Supervisor: Prof. Dr. Christopher Lucas
2012–2015	**M.Sc. Cognitive Science, University of Osnabrück** Thesis Title: Causal Reasoning and the Markov Assumption in a Physical Microworld Thesis Grade: 1.0 (A), Overall Grade: 1.0 (Distinction) Supervisors: Prof. Dr. Frank Jäkel, Prof. Dr. David Lagnado
2010–2011	**New Bulgarian University** Semester abroad
2008–2013	**B.Sc. Cognitive Science, University of Osnabrück** Thesis Title: Categorization in Chess Thesis Grade: 1.0 (A), Overall Grade: 1.2 (Distinction) Supervisor: Prof. Dr. Frank Jäkel

Academic & Research Experience

2020–today	**Research Fellow, University of Warwick, UK** Project: Searching for the approximation method used to perform rational inference by individual and groups.
2019–2020	**Visiting Ph.D. student in Daphna Buchsbaum's Computational Cognitive Development Lab, University of Toronto, Canada** Six–month visit during which I ran developmental studies in categorization.
2019	**Participant at the Diverse Intelligences Summer Institute, University of St,Andrews, UK.** A month-long summer institute hosting lectures and projects regarding issues of computational, social and comparative cognition.
2018–2019	**Tutor for Informatics Research Review, University of Edinburgh, UK** Tutoring informatics master students in writing a research review and structuring their research projects.
2016-2019	**TA, Tutor, Demonstrator & Marker for Introduction to Cognitive Science, University of Edinburgh, UK**
2018–2019	**TA, Tutor & Marker for Computational Cognitive Science, University of Edinburgh, UK** Developing materials for the tutorials in R. Tutoring and marking an undergraduate-level class in computational modeling.
2016–2019	**TA, Tutor, Demonstrator & Marker for Introduction to Cognitive Science, University of Edinburgh, UK** Developing materials for course exercises, labs and assignments in Python. Tutoring and demonstrating an introductory course in Cognitive Science.
2017	**Internship at the Alan Turing Institute, London, UK** During the three-month internship I developed and implemented a prototype app to allow citizen engagement through interactive explanations.
2014	**Research Assistant in Frank Jäkel's Cognitive Modeling Group, University of Osnabrück, Germany** Developing, programming, running and analyzing human categorization experiments.
2014	**Research Internship at Dave Lagnado's Causal Cognition Lab, University College London, UK** Three-month visit during which I developed experimental designs and researched causal cognition.
2013–2014	**Tutor for Multivariate Statistics, University of Osnabrück, Germany** Tutoring psychology master students in multivariate statistics. Supervision of theoretical and SPSS exercises.

Publications

Pablo León-Villagrá, Kay Otsubo, et al. "Uncovering Category Representations with Linked MCMC with people". In: *Proceedings of the 42nd Annual Conference of the Cognitive Science Society* (2020).

Pablo León-Villagrá, Verena S. Klar, et al. "Exploring the Representation of Linear Functions". In: *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (2019).

Pablo León-Villagrá and Christopher G Lucas. "Generalizing Functions in Sparse Domains". In: *Proceedings of the 41st Annual Conference of the Cognitive Science Society* (2019).

Pablo León-Villagrá, Sarwar Islam, et al. "You Guessed it! Reflecting on Preconceptions and Exploring Data without Statistics". In: *Proceedings of the 2nd European Data and Computational Journalism Conference.* University College Dublin. 2018, p. 11.

Pablo León-Villagrá, Irina Preda, and Christopher G Lucas. "Data Availability and Function Extrapolation". In: *Proceedings of the 40th Annual Conference of the Cognitive Science Society* (2018).

Alexander Matthews et al. "GPflow: A Gaussian Process Library using TensorFlow". In: *The Journal of Machine Learning Research* 18.1 (2017), pp. 1299–1304.

Pablo León-Villagrá and Frank Jäkel. "Categorization and Abstract Similarity in Chess". In: *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (2013).

Presentations

2019	**Talk: Dubrovnik, Croatia** Title: Generalizing Functions in Sparse Domains XI. Dubrovnik Conference on Cognitive Science
2018	**Talk: Darmstadt, Germany** Title: Data Availability and Function Extrapolation 14th Biannual conference of the German Society for Cognitive Science Best Presentation Award
2017	**Poster Presentation: London, UK** Title: Identifying Causal Direction in the Two-Variable Case 39th Annual Cognitive Science Conference
2017	**Talk: Osnabrück, Germany** Title: Human-like Function Learning and Transfer Colloquium of the Institute of Cognitive Science
2016	**Poster Presentation: Windsor, UK** Title: Human-Like Function Learning and Transfer Workshop: Human-Like Computing Machine Intelligence Workshop
2015	**Talk: Kunsthaus Muerz, Austria** Title: Kausales Denken - Bayesianische Modelle im Dialog mit der Wiener'schen Denkpsychologie Symposium: Oswald Wiener: Selbstbeobachtung - Denkpsychologie
2015	**Poster Presentation: Möhnesee-Günne, Germany** Title: Categorization in Chess Interdisciplinary College, Möhnesee-Günne

Scholarships

2015–2018	**Ph.D. Scholarship** School of Informatics, Institute for Language, Cognition and Computation

Software

	Actionscript, JavaScript, MATLAB, Node, Python, R, Scala, SQL, SPSS, TEX

Languages

German	Mother tongue
Spanish	Mother tongue
English	Fluent

References

Christopher G Lucas, Lecturer University of Edinburgh: c.lucas@ed.ac.uk
Daphna Buchsbaum, Professor: Brown University: daphna@brown.edu
David Lagnado, Professor: University College London d.lagnado@ucl.ac.uk
Frank Jäkel, Professor TU Darmstadt: jaekel@psychologie.tu-darmstadt.de