

Marian Simarro Gonzalez

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Education **Max Plank Institute for Psycholinguistics**

Ph.D. Candidate, present
Supervisor: Dr. Caroline Rowland

Basque Center on Cognition Brain and Language (EHU/UPV)

M.Sc., Cognitive Neuroscience of language, 2023
Supervisor: Dr. James Magnuson
Thesis: "A complementary learning systems approach to to computational modelling of bilingual language learning"

University of Alicante

B.Sc., Biology, 2022
Thesis: "A review of Computational Modelling of Brain Networks Involved in Language Use and Acquisition"

University of Skövde, Sweden

Erasmus Semester, 2021-2022, Coursework in Cognitive Neuroscience

Research **University of Tübingen**

Visiting Scholar, Department of Medical Psychology and Behavioral Neurobiology, 2024
Supervisor: Prof. Dr. Jan Born and Dr. Eva-Maria Kurz
Project: Domain-specific aberrations in gist memory formation during sleep in ADHD and autistic children

Basque Center on Cognition Brain and Language, Spain

Research Assistant, Spoken Language Interest Group, 2023-2024
Supervisors: Dr. Effie Kapnoula and Dr. Drew Mc. Laughlin
Projects: Spanish Neighborhood Density Effects in the Lexicon (SPANDEX) & The role of familiarity in multi-talker and multi-accent switching costs (FamPup)

University of California, San Francisco, US

Research Assistant, Neurodevelopmental Assessment and Imaging Lab, 2023
Supervisor: Dr. Carly Demopoulos
Project: Motor skills and the verbal communication spectrum in autism

Max Plank Institute for Psycholinguistics, Netherlands

Research internship, Neurobiology of Language Department, 2022
Supervisors: Prof. Dr. P. Hagoort and Alessio Quaessima
Project: A heterogeneous model of word recognition (HetRec)

Awards and Fellowships

Rafael del Pino Excellence Scholarships (1,8 success rate). Award: 24,300€ during the period of 1/9/2024 – 31/6/2026

Ministry of Education MSc Scholarship University of Basque Country. Award: 6,000€ plus tuition waiver during the period of 1/9/2022 – 31/6/2023

Ministry of Education BSc Scholarship, University of Alicante. Award: 6,000€ plus tuition waiver during the period of 1/9/2017 – 31/8/2022

Erasmus+ Traineeship at Max Plank Institute for Psycholinguistics. Award: 3,000€ during the period of 1/2/2022 – 1/6/2022

Erasmus+ Scholarship, Exchange Semester at University of Skövde, Sweden. Award: 4,000€ during the period of 1/8/2021 – 31/1/2022

Publications

Journals

- [1] Weiss, D., McLaughlin, D. Melguy, Y., **Simarro Gonzalez, M.** & Kapnoula, E. (In development) The role of familiarity in multi-talker and multi-accent switching costs
- [2] **Simarro Gonzalez, M.**, Magnuson, J., Hannagan, T., Beck, N., Carreiras, M. (In prep). Mitigating catastrophic interference in neural network models of bilingual lexical acquisition.
- [3] **Simarro Gonzalez, M.**, Ni, G., Lam, V., & Demopoulos, C. (2024). Beyond words: an investigation of fine motor skills and the verbal communication spectrum in autism. *Frontiers in Psychiatry*, 15, 1379307. DOI: [10.3389/fpsy.2024.1379307](https://doi.org/10.3389/fpsy.2024.1379307)

Posters

- [1] Weiss, D., McLaughlin, D. Melguy, Y., **Simarro Gonzalez, M.** & Kapnoula, E. (2024) The role of talker familiarity in across-accent switching. Poster presented at the Psychonomic Society's 65th Annual Meeting, New York City, New York, USA.
- [2] **Simarro Gonzalez, M.***, Magnuson, J.*, Hannagan, T., Beck, N., Carreiras, M. (2023). Mitigating catastrophic interference in neural network models of bilingual lexical acquisition. Poster presented at the Society for the Neurobiology of Language Conference, Marseille, France

Invited Talks

UCSF Weill Institute for Neurosciences, NAIL lab and Center for ASD and NDDs (STAR), May 2024

Volunteering	Basque Center on Cognition Brain and Language Assistant, BCBL Pupillometry Workshop, May 2024 Hands-on workshop covering: physiology, design, data preparation & analysis in R (GCA and GAMMs), and applications in language research
	Gautena (Gipuzkoa Society for Autism) Volunteer, 2022 – 2023
	Autistic Assembly Valencia Co-founder, 2022-2023
	Student Council, UPV/EHU Master student’s representative, 2022 – 2023 MSc Cognitive Neuroscience of Language, Class Delegate, 2022 - 2023
Other Education	Summer School of Linguistics , University of South Bohemia, 2024 Scientific Computing with Python , Free Code Camp, 2023 Data Analysis with Python , Free Code Camp, 2023 NLP with vector spaces , DeepLearning.AI, Coursera, 2022 Python for Cognitive Science Research , International Max Planck Research School, 2022 - Covered: EEG/ fMRI/ neural signal process and analysis. - Packages: NumPy, SciPy, Pandas, Seaborn, MNE, Nilearn. Neurolinguistics , Saint Petersburg State University, Coursera, 2022
	Professional Clarinet Studies , Jose Iturbi Music Conservatory, 2017 - 2020
Languages	Spanish (Native), Catalan (Native), English (Fluent), French (advanced) Italian (advanced), LSE (beginner), German (beginner)
Programming	Python (PyTorch, TensorFlow, Scikit-learn, Pandas, Matplotlib) L ^A T _E X, R, MatLab
Experiment & software	Pupillometry & eye-tracking, PsychoPy, PRAAT
Statistics	Regression (basic, hierarchical, generalized), growth curve analysis, generalized additive mixed-effects modeling, Bayesian statistics

References

Available on request.