

José C. García Alanis

PHD CANDIDATE | PSYCHOLOGIST | DATA ANALYST | SCIENTIFIC SOFTWARE DEVELOPER

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*Hi! I'm a experimental and clinical psychologist at the Philipps-Universität Marburg. My work lies at the interface between science and clinical practice, bridging basic research with the application of clinical interventions in the field. My research interests are focused on personal and situational influences on human brain function in relation to goal-directed behavior. I have a background in statistical modelling and scientific software development using **Python** (e.g., NumPy, Pandas, SciPy, scikit-learn), **R**, and **Git**. I'm also an active member of the open source community and an advocate of open, reproducible, and robust scientific practices.*

Experience

SCIENTIFIC

Research Fellow

PHILIPPS-UNIVERSITÄT MARBURG

- Build robust data cleaning and preprocessing pipelines that work reliably across multiple data sets.
- Optimise statistical analysis, data visualisation, and report process for multiple scientific projects.

Marburg (Germany)

October 2019–Present

Google Summer of Code Student Developer

PYTHON SOFTWARE FOUNDATION

- Enhance statistical inference capabilities of the Python package MNE-Python.

Remote

May 2019–September 2019

Visiting Researcher

MCCONNELL BRAIN IMAGING CENTRE, MONTREAL NEUROLOGICAL INSTITUTE

- Multivariate analysis of large clinical data sets (e.g., HCP).

Montreal (Canada)

January 2016–April 2016

Research and Teaching Assistant

PHILIPPS-UNIVERSITÄT MARBURG

- Plan, conduct, and evaluate psychological / neuroscientific experiments (e.g., using EEG).
- Design study protocols, develop methods to assess compliance and behavioral performance.
- Programming of experiment interfaces, real-time experimental control.
- Teaching of undergraduate students (experimental design, data analysis plans, data visualisation).

Marburg (Germany)

October 2014–September 2019

CLINICAL WORK

Scientist-Practitioner (Marburg Model)

CHILD AND ADOLESCENT PSYCHOLOGY, PHILIPPS-UNIVERSITÄT MARBURG

- Carry out diagnostics and interventions within clinical research projects.

Marburg (Germany)

October 2019–Present

Clinical Research Intern

DEP. OF PSYCHOTHERAPY, SCHÖN KLINIK

- Database and project management.

Bad Arolsen (Germany)

May 2014–September 2014

Clinical Intern

DEP. OF PSYCHIATRY AND PSYCHOTHERAPY, CHARITÉ UNIVERSITÄTSMEDIZIN

- Patient recruitment, diagnostics.

Berlin (Germany)

September 2013–December 2013

Education

Dr. rer. nat. (PhD) in Psychology

PHILIPPS-UNIVERSITÄT MARBURG

- Doctoral Thesis: The electrophysiology of individual differences in executive-dependent decision making.

Marburg (Germany)

Jan 2015–Present

German Diplom in Psychology (M.Sc. equivalent)

PHILIPPS-UNIVERSITÄT MARBURG

- Majors: Clinical psychology, biological and experimental psychology.

Marburg (Germany)

October 2008–September 2014

Skills

Analytics

STATISTICAL MODELLING, DATA SCIENCE, REPRODUCIBLE RESEARCH

Programming

PYTHON (ADVANCED), R (ADVANCED), GIT (ADVANCED), MATLAB (ADVANCED), SQL (INTERMEDIATE)

Packages

NUMPY, PANDAS, SCIPY, SCIKIT-LEARN, TIDYVERSE, LME4

Languages

GERMAN, ENGLISH, SPANISH

Workshops

- Nov. 2020 **Using Multivariate Statistics to Analyse EEG Data:** Instructor / Organiser (Brainhack, Global)
Virtual event. Researchers from across the globe work together on innovative projects.
- Nov. 2019 **Jupyter Notebooks and Python essential training:** Instructor / Organiser (Brainhack Marburg, Germany)
Hackathon for researchers to collaborate on open science / neuroimaging projects.
- Sep. 2019 **Machine Learning for Neuroscientists:** Teaching Assistant (DZNE, Magdeburg, Germany)
Training with relevant neuroimaging software packages and tools for machine learning.
- Jun. 2018 **Library Carpentry:** Teaching Assistant (University Library Marburg, Germany)
Create, analyse, and maintain sustainable data resources with Python.

Grants and Awards

- Oct. 2019 **Reserach Fellowship (Marburg Model):** Philipps-Universität Marburg
- Jun. 2018 **DGPA Best Poster Award:** 44th DGPs/DGPA Tagung Psychologie und Gehirn conference (Gießen, Germany)
- Jan. 2016 **Travel Grant (DAAD-IPID4all):** Research Stay at Montreal Neurological Institut (Montreal, CA).
- Oct. 2015 **Travel Grant (DAAD-IPID4all):** 55th Annual Meeting Society for Psychophysiological Research (Seattle, WA).
- Jun. 2013 **DAAD-STIBET:** Degree Completion Grant (Philipps-Universität Marburg)
- Jun. 2011 **DAAD-STIBET:** International Students Engagement Scholarship, Philipps-Universität Marburg.

Publications

1. Gau, R., Noble, S., Heuer, K., Bottenhorn, K. L., Bilgin, I. P., Yang, Y. F., ... & Marinazzo, D. (2021). Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. *Neuron*. <https://doi.org/10.1016/j.neuron.2021.04.001>
2. Herholz, P., Vogelbacher, C., & **García Alanis, J. C.** (2020, November). GORELLA/gorella_overview: initial alpha release (Version v0.0.1-alpha). Zenodo. <http://doi.org/10.5281/zenodo.4276460>
3. **García Alanis, J. C.**, Baker, T. E., Peper, M., & Chavanon, M. L. (2019). Social context effects on error-related brain activity are dependent on interpersonal and achievement-related traits. *Scientific reports*, 9(1), 1-14. <https://doi.org/10.1038/s41598-018-38417-2>
4. Vainik, U., Baker, T. E., Dadar, M., Zeighami, Y., Michaud, A., Zhang, Y., ... & Dagher, A. (2018). Neurobehavioral correlates of obesity are largely heritable. *Proceedings of the National Academy of Sciences*, 115(37), 9312-9317. <https://doi.org/10.1073/pnas.1718206115>
5. Bahn, D., Vesker, M., **García Alanis, J. C.**, Schwarzer, G., & Kauschke, C. (2017). Age-dependent positivity-bias in children's processing of emotion terms. *Frontiers in psychology*, 8, 1268. <https://doi.org/10.3389/fpsyg.2017.01268>