



Jolanda Malamud



jolandamalamud.github.io



github.com/jolandamalamud



linkedin.com/in/jolandamalamud

About me

Applied Computational Scientist focused on solving complex human problems. I build foundational and predictive models using advanced statistical methods and AI/ML techniques, turning complex data into clear, actionable scientific insights. I'm passionate about using technology for good, collaborating with mission-driven teams, and creating meaningful impact.

SKILLS

Technical Tools & Languages

Python (NumPy, pandas, scikit-learn, PyTorch) • MATLAB (SPM) • Git\Github • Bash • L^AT_EX• R
• SQL • Docker • AWS

Data Science & ML Expertise

• Machine Learning (supervised, unsupervised, deep learning, reinforcement learning, large language models) • Statistical Modeling • Data Science (Preprocessing, Mining, Visualization)
• Time Series Analysis • Dynamical & Control Systems • Experimental Design • Scientific Writing

Communication & Soft Skills

• Fluent in English & German (Native) • Excellent organizational & interpersonal skills • Structured working style • Experience in working with interdisciplinary teams

EXPERIENCE

Research and Data Scientist

TheraBuddy (Mental Health Startup)

Dec 2024 — Aug 2025

Zurich/Remote

- Defined data strategy, identified key metrics, and explored AI/ML techniques to lead data science projects and product innovation.
- Conducted research for the development of a gamified solution for preventative mental health care.
- Supported stakeholder communication, fundraising and strategic analysis (e.g., pitches, market fit).
- Contributed to early-stage product development and business strategy.

Affiliated Researcher

Applied Computational Psychiatry Lab, Mental Health Neuroscience Department, Division of Psychiatry & Max Planck UCL Centre for Computational Psychiatry and Ageing Research, Queen Square Institute of Neurology

June 2023 — Sept 2024

London, UK

- Conducted advanced statistical modeling for mental health research.
- Applied reinforcement learning and survival analyses to predict relapse in large-scale clinical trials.
- Published in peer-reviewed journals.

Postgraduate Researcher

Max Planck UCL Centre for Computational Psychiatry and Ageing Research

Oct 2018 — June 2023

London, UK

Supervisors: Prof Quentin Huys & Prof Ray Dolan (passed with no corrections)

- Developed and applied machine learning models to analyze mental health data.
- Modeled mood dynamics using dynamical/control systems and time series methods.
- Designed and conducted behavioral studies on psychological interventions.
- Published scientific findings and presented research at international conferences.

Graduate Researcher

Translational Neuromodeling Unit

Mar 2017 — Jan 2018

Zurich, Switzerland

Supervisors: Prof Klaas Enno Stephan & Prof David Paul Wolfer

- Analyzed fMRI data using Dynamic Causal Modeling (DCM) and machine learning approaches to investigate cognitive processes and mental health disorders.

Research Assistant

University Hospital Zurich, Clinic for Psychiatry and Psychotherapy

Nov 2015 — Nov 2016

Zurich, Switzerland

- Conducted cognitive experiments and collected physiological & fMRI data.
- Assisted in a meta-analysis and statistical evaluations of psychiatric studies.

EDUCATION

DAS in Data Science (Specialization in Machine Learning and Artificial Intelligence), ETH Zurich
Department of Computer Science

2024 - Present

Zurich, Switzerland

PhD in Computational Psychiatry, University College London
Max Planck UCL Centre for Computational Psychiatry and Ageing Research

2018 - 2023

London, UK

MSc in Health Science and Technology with a Major in Neuroscience, ETH Zurich	2015 - 2018
<i>Department of Health Sciences and Technology</i>	Zurich, Switzerland
BSc in Health Science and Technology, ETH Zurich	2012 - 2015
<i>Department of Health Sciences and Technology</i>	Zurich, Switzerland

VOLUNTEERING

Organizer, "Methods for Dummies" Seminar Series, UCL	Nov 2021 — Jun 2022
Mentor, In2scienceUK	Sept 2020 — July 2021
Postgraduate Student Representative, COMP2PSYCH Program	Aug 2020 — Dec 2022

HONORS AND AWARDS

IMPRS COMP2PSYCH PhD Scholarship, issued by Max Planck Society	Oct 2018 — Oct 2022
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PUBLICATIONS

Malamud, J. and Huys, Q. (2025). Distancing alters the controllability of emotional states by affecting both intrinsic stability and extrinsic sensitivity. *eLife* 14. <https://doi.org/10.7554/eLife.102780.1>

Malamud, J., Lewis, G., Moutoussis, M., Duffy, L., Lewis, G., and Huys, Q. (2025). Reinforcement learning processes are associated with relapse after antidepressant discontinuation: evidence from a randomized controlled trial. *In prep.*

Malamud, J., Lewis, G., Moutoussis, M., Duffy, L., Bone, J., Srinivasan, R., et al. (2024). The selective serotonin reuptake inhibitor sertraline alters learning from aversive reinforcements in patients with depression: evidence from a randomized controlled trial. *Psychological Medicine* 1–13. doi:10.1017/S0033291724000837

Malamud, J., Guloksuz, S., van Winkel, R., Delespaul, P., De Hert, MAF., Derom, C., et al. (2024). Characterizing the dynamics, reactivity and controllability of moods in depression with a Kalman filter. *PLOS Computational Biology* 20(9). doi:10.1371/journal.pcbi.1012457

Jellestad, L., Zeffiro, T., Piccirelli, M., Malamud, J., Klimke, BBM., Rauen, K., et al. (2021). Interfering with fear memories by eye movement desensitization and reprocessing. *Int J Psychophysiol.* doi:10.1016/j.ijpsycho.2021.04.006

Jellestad, L., Vital, NA., Malamud, J., Taeymans, J., Mueller-Pfeiffer, C. (2021) Functional impairment in Posttraumatic Stress Disorder: A systematic review and meta-analysis. *J Psychiatr Res.* doi:10.1016/j.jpsychires.2021.01.039

References available upon request.