

Jolanda Malamud

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🏠 Zurich, Switzerland

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About me: Data scientist with a strong foundation in computational methods, statistical modeling, and AI-driven solutions, currently working on mental health innovation at TheraBuddy. Experienced in analyzing complex datasets, developing machine learning models, and building data-driven applications to solve real-world problems. Passionate about using technology for good, collaborating with mission-driven teams, and creating meaningful impact.

SKILLS

Technical

• Machine Learning (Supervised & Unsupervised Learning, Deep Learning, Reinforcement Learning, Large Language Models) • Data Science (Preprocessing, Mining, Visualization) • Statistical Modeling • Time Series Analysis • Dynamical & Control Systems • Scientific Writing • Experimental Design

Tools and Languages

Python (NumPy, pandas, scikit-learn, PyTorch) • MATLAB • SPM • Git • ~~TeX~~• bash • R • SQL • JavaScript • HTML • Docker • Cloud Platforms

Communication & Soft Skills

English (fluent) • German (native) • Excellent organizational & interpersonal skills

EXPERIENCE

Research and Data Lead

TheraBuddy (Mental Health Startup)

Dec 2024 — Present

Zurich/Remote

- Conducting research to support the development of our engaging, gamified solution for preventative mental health care.
- Leading data science initiatives by defining data strategy, identifying key metrics, and exploring AI/ML techniques and datasets to drive product innovation.

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

Oct 2018 — June 2023

London, UK

- 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

Supervisors: Prof Klaas Enno Stephan & Prof David Paul Wolfer

Mar 2017 — Jan 2018

Zurich, Switzerland

- 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
Department of Health Sciences and Technology

2015 - 2018
Zurich, Switzerland

VOLUNTEERING

Organizer, "Methods for Dummies" Seminar Series, UCL
Mentor, In2scienceUK
Postgraduate Student Representative, COMP2PSYCH Program

Nov 2021 — Jun 2022
Sept 2020 — July 2021
Aug 2020 — Dec 2022

HONORS AND AWARDS

IMPRS COMP2PSYCH PhD Scholarship, issued by Max Planck Society

Oct 2018 — Oct 2022

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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1016/j.jpsychires.2021.01.039)