

# Jolanda Malamud

✉ [jolanda.malamud@gmail.com](mailto:jolanda.malamud@gmail.com)  
☎ (+41)798168381  
🏠 Zurich, Switzerland  
🌐 [jolandamalamud](#)  
in [jolandamalamud](#)

**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** Dec 2024 — Present  
*TheraBuddy (Mental Health Startup)* 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** June 2023 — Sept 2024  
*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* 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** Oct 2018 — June 2023  
*Max Planck UCL Centre for Computational Psychiatry and Ageing Research* 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** Mar 2017 — Jan 2018  
*Translational Neuromodeling Unit* 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** Nov 2015 — Nov 2016  
*University Hospital Zurich, Clinic for Psychiatry and Psychotherapy* 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** 2024 - Present  
*Department of Computer Science* Zurich, Switzerland

**PhD in Computational Psychiatry, University College London** 2018 - 2023  
*Max Planck UCL Centre for Computational Psychiatry and Ageing Research* London, UK

**MSc in Health Science and Technology with a Major in Neuroscience, ETH Zurich** 2015 - 2018  
*Department of Health Sciences and Technology* 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)