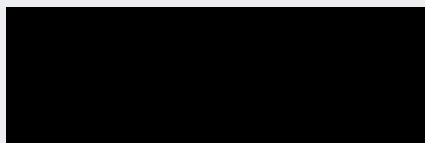




# Jolanda Malamud



🌐 [jolandamalamud.github.io](https://jolandamalamud.github.io)  
🐙 [github.com/jolandamalamud](https://github.com/jolandamalamud)  
in [linkedin.com/in/jolandamalamud](https://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 • $\LaTeX$ • 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

<b>Research and Data Scientist</b> <i>TheraBuddy (Mental Health Startup)</i> <ul style="list-style-type: none"><li>Defined data strategy, identified key metrics, and explored AI/ML techniques to lead data science projects and product innovation.</li><li>Conducted research for the development of a gamified solution for preventative mental health care.</li><li>Supported stakeholder communication, fundraising and strategic analysis (e.g., pitches, market fit).</li><li>Contributed to early-stage product development and business strategy.</li></ul>	<b>Dec 2024 — Aug 2025</b> <i>Zurich/Remote</i>
<b>Affiliated Researcher</b> <i>Applied Computational Psychiatry Lab, Mental Health Neuroscience Department, Division of Psychiatry &amp; Max Planck UCL Centre for Computational Psychiatry and Ageing Research, Queen Square Institute of Neurology</i> <ul style="list-style-type: none"><li>Conducted advanced statistical modeling for mental health research.</li><li>Applied reinforcement learning and survival analyses to predict relapse in large-scale clinical trials.</li><li>Published in peer-reviewed journals.</li></ul>	<b>June 2023 — Sept 2024</b> <i>London, UK</i>
<b>Postgraduate Researcher</b> <i>Max Planck UCL Centre for Computational Psychiatry and Ageing Research</i> <i>Supervisors: Prof Quentin Huys &amp; Prof Ray Dolan (passed with no corrections)</i> <ul style="list-style-type: none"><li>Developed and applied machine learning models to analyze mental health data.</li><li>Modeled mood dynamics using dynamical/control systems and time series methods.</li><li>Designed and conducted behavioral studies on psychological interventions.</li><li>Published scientific findings and presented research at international conferences.</li></ul>	<b>Oct 2018 — June 2023</b> <i>London, UK</i>
<b>Graduate Researcher</b> <i>Translational Neuromodeling Unit</i> <i>Supervisors: Prof Klaas Enno Stephan &amp; Prof David Paul Wolfer</i> <ul style="list-style-type: none"><li>Analyzed fMRI data using Dynamic Causal Modeling (DCM) and machine learning approaches to investigate cognitive processes and mental health disorders.</li></ul>	<b>Mar 2017 — Jan 2018</b> <i>Zurich, Switzerland</i>
<b>Research Assistant</b> <i>University Hospital Zurich, Clinic for Psychiatry and Psychotherapy</i> <ul style="list-style-type: none"><li>Conducted cognitive experiments and collected physiological &amp; fMRI data.</li><li>Assisted in a meta-analysis and statistical evaluations of psychiatric studies.</li></ul>	<b>Nov 2015 — Nov 2016</b> <i>Zurich, Switzerland</i>

## EDUCATION

<b>DAS in Data Science (Specialization in Machine Learning and Artificial Intelligence), ETH Zurich</b> <i>Department of Computer Science</i>	2024 - Present <i>Zurich, Switzerland</i>
<b>PhD in Computational Psychiatry, University College London</b> <i>Max Planck UCL Centre for Computational Psychiatry and Ageing Research</i>	2018 - 2023 <i>London, UK</i>

**MSc in Health Science and Techonolgy with a Major in Neuroscience, ETH Zurich**  
*Department of Health Sciences and Technology*

2015 - 2018  
Zurich, Switzerland

**BSc in Health Science and Techonolgy, ETH Zurich**  
*Department of Health Sciences and Technology*

2012 - 2015  
Zurich, Switzerland

## VOLUNTEERING

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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

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IMPRS COMP2PSYCH PhD Scholarship, issued by Max Planck Society

Oct 2018 — Oct 2022

## PUBLICATIONS

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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)

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References available upon request.