Bobby Tromm

Curriculum vitae

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Education

2021–2023	MSc Cognitive and Clinical Neuroscience, Maastricht University, 8.45/10
	Supervised by: Dr. Jan Ramaekers, Dr. Morten Kringelbach

2016–2020 **BS Neuroscience**, Brandeis University, Cum laude Supervised by: Dr. Eve Marder

Selected honors and awards

2023-2024	Usona	Institute	Scholarship,	Usona	Institute	(twice	awarded)	ļ
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- 2024 Polaris Fellowship, Entrepreneur First
- 2020 Justice Brandeis Scholarship, Brandeis University
- 2016 AHEPA Scholarship, American Hellenic Educational Progressive Association
- 2016 Academic and Adversity Scholarship, Southern Alumni Scholarship Foundation

Experience

Research

2024-Present Research Engineer, Karalis Lab, Paris Brain Institute, Institut du Cerveau Causal decoupling in neuromodulatory rhythms

2023 Visiting Researcher, Centre for Eudaimonia and Human Flourishing, Department of Psychiatry, University of Oxford

Thesis: Changes in brain hierarchy following acute and chronic use of psychoactive sub-

 Analyzed changes in functional hierarchy using whole-brain modeling and information decomposition.

2022–2023 Research Assistant, Ramaekers Lab, Maastricht University fMRI preprocessing pipeline development

2020-2021 Research Assistant, Novamind

Analysis of studies on emotion-focused ketamine-assisted psychotherapy in eating disorders

2019–2020 Undergraduate Researcher, Marder Lab, Brandeis University

Thesis: Variability in homeostatic tuning rules produces diverse correlations in ion channels

- Key finding: Model neurons express variability in mRNA- and ion channel-level maximal conductance across neurons of the same cell type through differential regulation of ion channel associated mRNA transcription rates.
- Implemented and analyzed 2 homeostatic control mechanisms in C++ for use with Xolotl, improving performance by 3x versus the gold-standard simulator, NEURON.

2018–2019	9 Undergraduate Researcher , <i>Miller Lab</i> , Brandeis University Neuronal homeostasis, dynamical systems theory					
	Professional					
2020–2022	Founder and CTO , <i>Psygaia</i> Educational programs for future psychedelic-assisted psychotherapists					
2019–2021	 Coordinator, Intercollegiate Psychedelics Network Research & Professional Development Organized first iteration of PsychedelX, a virtual conference and talk competition. 					
	Conferences and Speaking Opportunities					
2024	Symposium: Mathematical and philosophical models of consciousness, <i>Ritsumeikan University</i> , Poster Changes in functional brain organization under ayahuasca and DMT					
2024	ASSC 27, University of Tokyo, Poster, Student Committee Organiser Brain hierarchy under psychoactive substances					
2023	ALPS 2023, Geneva, Poster 'The anarchically organised brain: changes in functional hierarchy in altered states'					
2020	PsychedelX, Online, Panel moderator Industry leaders on working in the psychedelic industry					
2020	IPS 2020, Harvard University, Organiser					
2019	SciFest IX , <i>Brandeis University</i> , Poster Dual homeostatic mechanisms can reproduce diverse ion channel correlations					
	Volunteering experience					
2024–Present	Association for the Scientific Study of Consciousness, Student committee					
2016–2018	Students for Sensible Drug Policy, Chapter founder & president					
	Workshops and Certifications					
2024	Neurohackademy, University of Washington					
2024	Qualia Structure Summer School, Kyoto					
2024	Mediterranean Society for the Study of Consciousness Winter School, Catalunya					
2020	Neuromatch Computational Neuroscience, Online					