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Av. Brasilia, 140	00-038 Lisboa	${\it caroline. haimerl} @ {\it research. fchampalimaud. org} \qquad {\it \underline{Google~scholar~profile}~//~\underline{\it GitHub~profile}~//~\underline{\it Linkedin~profile}}$		
keywords	multi-area computations for multiscale behavior, ML for neuroscience, reinforcement learning			
current research	Champalimaud Centre for the Unknown, Lisbon, Portugal			
	2022-now advisors:	Research Fellow Joe J. Paton and Christian Machens		
education	New York U	New York University, NY, US		
	2016-2022 advisors: affiliation:	PhD Neuroscience Eero P. Simoncelli and Cristina Savin Center for Neural Science		
	University of Vienna, AUT			
	2012-2016	Bachelor of Science - Psychology		
	2011-2015	Bachelor of Science - Statistics		
	University of Chicago, IL, US			
	2015	exchange program with focus computational neuroscience		
awards	2025 2024 2024 2022 2019-2021 2016-2018 2018 2017 2017 2015-2016 2015 2014 2013	Reinforcement Learning and Decision Making travel grant by the OpenMind Institute Simons Collaboration on the Global Brain Transition to Independence Award Portuguese Society for Neuroscience travel award for conference attendance NYU Dissertation award Google PhD fellowship MacCracken Fellowship for Doctoral Studies, NYU COSYNE travel grant for presenters CAJAL Stipend to attend summer school Dean's student travel grant to present research Erasmus stipend for research abroad Scholarship for Exchange Semester, awarded by the University of Vienna Merit Scholarship, Department of Psychology, University of Vienna Merit Scholarship, Department of Statistics, University of Vienna		
previous research	Google Brain 2021(3m) supervisor: topic: New York Un 2016 advisor: topic: INMED, Mar 2015-2016 advisors: topic:	research intern Michael Isard mixture of heterogeneous experts models to scale up NLP Transformers niversity, NY, US graduate research assistant György Buzsáki decoding from neural populations in hippocampal CA1 during 2D maze exploration		

University of Chicago, IL, US

2015 research technician advisor: Jason MacLean

topic detecting microcircuits in temporal patterns of spontaneous cortical activity

publications

Haimerl, C.*, Rodrigues, F.*, Paton, J. (2025). Time, control, and the nervous system. **Annual Review of Neuroscience** https://doi.org/10.1146/annurev-neuro-112723-025348

Haimerl, C., McNamee, D. (2024). *Regulating augmentations during open-ended learning via phasic serotonergic signaling*. **NeurIPS** workshop "Intrinsically Motivated Open-Ended Learning"

Haimerl, C., Ruff, D. A., Cohen, M. R., Savin, C., & Simoncelli, E. P. (2023). *Targeted V1 comodulation supports task-adaptive sensory decisions*. **Nature Communications**, 14(1), 7879.

Haimerl, C., Simoncelli, E.P., Savin, C. (2022). *Targeted comodulation in V1 supports flexible and accurate downstream decoding*. **NeurIPS** workshop "All Things Attention" (selected for talk)

Hart, B., Achakulvisut, T., Adeyemi, A., Akrami, A., Alicea, B., Alonso-Andres, A., ... **Haimerl**, C., ... (2022). *Neuromatch Academy: A 3-week, online summer school in computational neuroscience*. Journal of Open Source Education, *5*(49).

Haimerl, C., Savin, C., Simoncelli, E.P. (2019). Flexible and accurate decoding of neural populations through stochastic comodulation, NeurIPS

Haimerl, C.*, Angulo-Garcia, D.*, Villette, V., Reichinnek, S., Torcini, A., Cossart, R., Malvache, A. (2019). *Internal representation of hippocampal neuronal population spans a time-distance continuum*, **PNAS**, 116 (15)

Malvache, A., Reichinnek, S., Villette, V., **Haimerl, C.**, Cossart, R. (2016). *Awake hippocampal reactivations project onto orthogonal neuronal assemblies*, **Science**, 353/6305

preprints

Boeshertz, G., **Haimerl, C.**, & Savin, C. (2023). *Task adaption by biologically inspired stochastic comodulation*. arXiv preprint arXiv:2311.15053.

talks

2019 Nov

2019 Oct 2019 Jul

2019 Jun

2025 Sept	Invited talk Bernstein workshop, Frankfurt		
2025 May	Short talk Simons Collaboration on the Global Brain, New York City		
2025 Apr	Short talk Janelia Mechanistic Cognitive Neuroscience conf., Washington DC		
2025 Apr	Invited talk Técnico, Lisbon		
2025 Feb	Invited talk Medical University, Vienna		
2024 Jun	Invited talk ISTA, Klosterneuburg		
2024 Apr	Champalimaud Internal Seminar, Lisbon		
2024 Mar	Invited talk in Haefner lab (online)		
2023 Sep	Bernstein workshop, Berlin		
2023 Feb	Workshop "Towards a theory of artificial and biological neural networks", Les Houches		
2023 Feb	Champalimaud Internal Seminar, Lisbon		
2022 Dec	NeurIPS Workshop "All Things Attention", New Orleans		
2021 Apr	Invited talk, Champalimaud Centre for the Unknown, Lisbon		
2021 Apr	Invited talk, Max Planck Institute, Tübingen,		
2021 Mar	Lumos External Talks series (online)		
2021 Jan	Open House, CNS, NYU, New York (internal)		
2020 Nov	Neuroscience Talk Series, CNS, NYU, New York (internal)		
2020 Jan	Open House, CNS, NYU, New York (internal)		

Doctoral student talk series, CNS, NYU, New York (internal)

Invited talk, Center for the Neural Basis of Cognition, University of Pittsburgh

Janelia Theory Workshop, Janelia Research Campus

Google PhD Fellowship Summit, Mountain View

2018 Mar 2017 Mar INMED, Marseille posters 2025 Jun 2025 Jun 2024 Dec 2024 Peb 2024 Peb 2024 Peb 2025 Peb 2025 Peb 2025 Peb 2026 Peb 2027 Peb 2027 Peb 2027 Peb 2027 Peb 2028 Peb 2029 Peb 2029 Peb 2019 Pec 2029 Peb 2019 Pec 2029 Peb 2019 Pec 2029 Peb 2019 Peb 2017 Peb 2017 Peb 2017 Peb 2016 Peb 2019 Peb 201			Curriculum Vitae, C Haimerl, 2025
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