Assistant Professor, University of Washington nick.steinmetz@gmail.com | www.steinmetzlab.net

Educati	ion		
2007 –2	2014	Ph.D., Neurosciences	
		Stanford University, Stanford, CA, USA	
		Supervisors: Prof. Tirin Moore and Prof. Kwabena Boahen	
2003 –2	2007	Bachelor of Science and Engineering, Bioengineering, summa cum laude	
		University of Pennsylvania, Philadelphia, PA, USA	
Employ	ıment		
2019 – p	present	Assistant Professor, Department of Biological Structure, University of Wash	ington
2017 – 2	2018	Senior Research Associate, University College London, London, UK	
2014 – 2	2017	Research Associate, University College London, London, UK	
		Supervisors: Prof. Matteo Carandini and Prof. Kenneth D. Harris	
Large-s	scale Coll	aborations	
2019 – p	present	International Brain Laboratory member	
2017 – p	present	Program Coordinator, Neuropixels Consortium	
Publica	itions (Pee	er-reviewed except where noted. <b>Bold</b> : first or last author)	
2020		Steinmetz, Krumin, Pachitariu, Rizzi, Lagnado, Harris, Carandini I modulates retinal output	Neuron
J		inmetz, Carandini, Harris I State Fluctuations During Sensory Decision Making	Current Biology (in press)
Ž		s*, Steinmetz*, Carandini, Harris eptual decision requires sensory but not action coding in mouse cortex   preprint	bioRxiv
-		ational Brain Laboratory,, Steinmetz, et al.  rchitecture for a large-scale neuroscience collaboration   preprint	bioRxiv
Š	Influen	netz, Moore, Boahen, Engel nee of On-Off dynamics and selective attention on the spatial pattern of correlated lity in neocortex   preprint	bioRxiv
\		en, Gieselmann, Boyd, Steinmetz, Moore, Engel, Thiele	bioRxiv
I		, Neto,, Steinmetz, et al. ot record from every electrode with a CMOS scanning probe?   preprint	bioRxiv
2019		Zatka-Haas, Carandini, Harris uted Coding of Choice, Action, and Engagement Across the Mouse Brain	Nature
į		nmetz erspectives on Dimensionality and Variability from Large-scale Cortical uics   review	Curr Op in Neurobio
Ş	Stringer*,	Pachitariu*, Steinmetz, Carandini, Harris imensional Geometry of Population Responses in Visual Cortex	Nature

	Stringer*, Pachitariu*, Steinmetz, Reddy, Carandini, Harris Spontaneous Behaviors Drive Multidimensional, Brain-Wide Population Activity	Science
	Shimaoka, Steinmetz, Harris, Carandini The Impact of Bilateral Ongoing Activity on Evoked Responses in Mouse Cortex	eLife
	Okun, Steinmetz, Lak, Dervinis, Harris <u>Distinct Structure of Cortical Population Activity on Fast and Infraslow Timescales</u>	Cerebral Cortex
	Pettine, Steinmetz, Moore Laminar Segregation of Sensory Coding and Behavioral Readout in Macaque V4	PNAS
	Peters, Steinmetz, Harris, Carandini <u>Striatal Activity Reflects Cortical Activity Patterns</u>   preprint	bioRxiv
2018	Steinmetz, Koch, Harris, Carandini Challenges and Opportunities for Large-Scale Electrophysiology with Neuropixels Probes   review	Curr Op in Neurobio
	Shamash, Harris, Carandini, <b>Steinmetz</b> <u>A Tool for Analyzing Electrode Tracks From Slice Histology</u>   <i>preprint</i>	bioRxiv
2017	Jun*, <b>Steinmetz</b> *, Siegle*, Denman*, Bauza*, Barbarits*, Lee*, et al. <u>Fully Integrated Silicon Probes for High-Density Recording of Neural Activity</u>	Nature
	Burgess*, Lak*, <b>Steinmetz*</b> , Zatka-Haas*, et al. <u>High-Yield Methods for Accurate Two-Alternative Visual Psychophysics in Head-Fixed Mice</u>	Cell Reports
	Steinmetz, Buetfering, Lecoq, Lee, et al.  Aberrant Cortical Activity in Multiple GCaMP6-Expressing Transgenic Mouse Lines	eNeuro
	Sridharan, Steinmetz, Moore, Knudsen <u>Does the Superior Colliculus Control Perceptual Sensitivity or Choice Bias during Attention?</u> <u>Evidence from a Multialternative Decision Framework</u>	J. of Neurosci
2016	Engel*, Steinmetz*, Gieselmann, Thiele, Moore, Boahen Selective Modulation of Cortical State During Spatial Attention	Science
	Stringer, Pachitariu, Steinmetz, Okun, Bartho, Harris, Sahani, Lesica <u>Inhibitory Control of Correlated Intrinsic Variability in Cortical Networks</u>	eLife
	Pachitariu, Steinmetz, Kadir, Carandini, Harris <u>Fast and Accurate Spike Sorting of High-Channel Count Probes with Kilosort</u>	NeurIPS
2015	Okun, Steinmetz, Carandini, Harris <u>Diverse Coupling of Neurons to Populations in Sensory Cortex</u>	Nature
2014	Steinmetz, Moore  Eye Movement Preparation Modulates Neuronal Responses in Area V4 When Dissociated from Attentional Demands	Neuron
	Zirnsak, Steinmetz, Noudoost, Xu, Moore <u>Visual Space is Compressed in Prefrontal Cortex Before Eye Movements</u>	Nature
	Sridharan, Steinmetz, Moore, Knudsen Distinguishing Bias from Sensitivity Effects in Multialternative Detection Tasks	J. of Vision
	Steinmetz Circuits Underlying Visual Attention in Primate Neocortex	Ph.D. Thesis
2012	Squire*, <b>Steinmetz</b> *, Moore <u>Frontal Eye Field</u>   <i>review</i>	Scholarpedia
	Steinmetz, Moore  Lumping and Splitting the Neural Circuitry of Visual Attention   commentary	Neuron

2010		etz, Moore	J. of Neurophys
		nges in the Response Rate and Response Variability of Area V4 Neurons During the paration of Saccadic Eye Movements	
		ost, Chang, Steinmetz, Moore	Curr Op in
		-Down Control of Visual Attention   review	Neurobio
2009		eibt, Dumoulin, Jha, Steinmetz, Coleman, Naidoo, Frank	Neuron
2000		hanisms of Sleep-Dependent Consolidation of Cortical Plasticity	1 af Can
2008		nmetz, Farley, Smith, Joseph -fusiform Activation During Object Discrimination Reflects the Process of	J. of Cog Neurosci
		erentiating Structural Descriptions	
2006	-	Cerullo, Farley, Steinmetz, Mier I Correlates of Cortical Specialization and Generalization for Letter Processing	Neuroimage
		Powell, Andersen,, Steinmetz, Zhang I in Alert, Behaving Monkeys: An Adaptation of the Human Infant Familiarization	J. of Neurosci Methods
	Nov	elty Preference Procedure	
2005		es, Coleman, Steinmetz,, Frank p-Dependent Plasticity Requires Cortical Activity	J. of Neurosci
_ ,,			
-	-	and Awards	
2020 -	•	Pew Biomedical Scholar	
2020 -	•	Klingenstein-Simons Neuroscience Fellow	
2019 -	•	Simons Foundation Investigator	
2019 -		Whitehall Foundation Research Grant	
2019 -	•	Next Generation Leader, Allen Institute for Brain Science	
2015 -		Postdoctoral Fellowship from the Human Frontier Sciences Program	
2016 -	- 2018	Postdoctoral Fellowship from the Marie Curie Action of the EU	
2015	2014	Newton Postdoctoral Fellowship from the Royal Society (awarded)	
2011 -		Graduate Research Fellowship from National Science Foundation (NSF GRFP)	Commutation
2009 -	- 2011	Graduate Research Fellowship from the Stanford Center for Mind, Brain, and National Science Foundation, Integrative Graduate Education Research Traine	•
2006 -	- 2007	Blair Fellowship for Undergraduate Research in Bioengineering/Biomedical So University of Pennsylvania	ciences from the
2005 -	- 2007	University Scholars Fellowship for Undergraduate Research from the University	ity of Pennsylvania
Profes	ssional S	Service	
2019 -	- pres.	Editorial Board, Scientific Data	
2014 -	- pres.	Peer reviewer for journals including eLife, Neuron, Current Biology, J. of Neuron, Neurophysiology, and Cerebral Cortex	oscience, J. of
Invite	d Talks		
2020 J	uly	FENS Workshop "Measuring activity at brain-wide scale", Glasgow, UK (virtua	<u></u>
2020 N	Иау	Netherlands Institute for Neuroscience, Amsterdam, NL (virtual)	
2020 N	∕lar	Cosyne Workshop on "Modules in the Brain", Breckenridge, CO, USA	

2020 Jan	Albert Einstein College of Medicine, New York, NY, USA
2020 Jan	University of Oslo, Oslo, Norway
2019 Nov	Allen Institute for Brain Science, Seattle, WA, USA
2019 Oct	Society for Neuroscience, Minisymposium, Chicago, IL, USA
2019 Sept	Next-generation Neurotech Symposium, IBRO 2019, Daegu, South Korea
2019 Sept	Allen Institute Workshop on the Dynamic Brain, Friday Harbor, WA, USA
2019 July	Champalimaud Centre for the Unknown, Lisbon, Portugal
2019 July	Neural Data Science course, Cold Spring Harbor Labs, New York, NY, USA
2019 May	Keynote: Statistical Analysis of Neural Data, Pittsburgh, PA, USA
2019 Apr	University of Washington, Seattle, WA, USA
2019 Mar	University of Oregon, Eugene, OR, USA
2019 Jan	Neural Computation and Engineering Connection, University of Washington, Seattle, WA, USA
2018 Nov	Society for Neuroscience, Nanosymposium, San Diego, CA, USA
2018 Oct	'Neureka' Symposium, Kings College London, London, UK
2018 Sept	Cardiff University, Cardiff, Wales, UK
2018 May	International Brain Laboratory, First Science Meeting, Paris, France
2018 May	International Conference for Advanced Neurotechnology, Ann Arbor, MI, USA
2018 Mar	Cosyne Workshop on "Brain-wide neuronal dynamics", Breckenridge, CO, USA
2018 Feb	Neuralink, San Francisco, CA, USA
2017 Nov	SfN Neuropixels Satellite Session, Washington, DC, USA
2017 Oct	Kavli Futures Symposium: Neurotechnology, Santa Monica, CA, USA
2017 Sept	NIH Neurotechnology Seminar, Bethesda, MD, USA
2017 July	Computational Neuroscience Society, Antwerp, Belgium
2017 July	Champalimaud Centre for the Unknown, Lisbon, Portugal
2017 June	International Conference for Advanced Neurotechnology, Freiburg, Germany
2016 Nov	Institute of Opthalmology, University College London, London, UK
2015 Nov	Neuroseeker Data Workshop, Nijmegen, Netherlands
Other Trainin	a

#### Other Training

2012	FENS-IBRO-Hertie Winter School on "Neural Coding in Sensory Systems", Obergurgl, Austria
2009	"Methods in Computational Neuroscience", Woods Hole, MA, USA

## **Teaching Activities**

2020	Course organizer and lecturer, "Seminar in Computational Neuroscience" (NEUSCI490), UW
2019-2020	Lecturer, "Current Topics in Neurobiology and Behavior" (NEURO527), UW
2020	Lecturer, "Computational Neuroscience" (CSE/NEUBEH 528), UW
2019	Course organizer and lecturer for Neuropixels Workshop, Allen Institute for Brain Science
2019	Course organizer and lecturer for Neuropixels Training Course 2019, University College London
2018	Course organizer and instructor for International Brain Laboratory "Neuropixels mini-course"
2018	Course instructor for Cajal Course "Linking Neural Circuits and Behavior", Bordeaux, France

2018	Course instructor for Paris Neuro, Paris, France
2018	Course organizer and lecturer for Neuropixels Training Course 2018, University College London
2017	Teaching Assistant for Cajal Course "Interacting with Neural Circuits", Champalimaud Centre, Lisbon, Portugal
2017	Course organizer and lecturer for Neuropixels Training Course 2017, University College London
2012	Teaching Assistant, Large-scale neural models, with Dr. Kwabena Boahen, Stanford University
2011	Teaching Assistant, Computational Neuroscience, with Dr. John Huguenard, Stanford University
2009	Teaching Assistant, <i>Information and Signaling in Neurons and Networks</i> , with Dr. Richard Tsien and Dr. Stephen Baccus, Stanford University
2008	Teaching Assistant, "Stanford Intensive Neuroscience" graduate program boot camp