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

Education		
2007 –201	Ph.D., Neurosciences	
	Stanford University, Stanford, CA, USA	
	Supervisors: Prof. Tirin Moore and Prof. Kwabena Boahen	
2003 –200	Bachelor of Science and Engineering, Bioengineering, summa cum laude	
	University of Pennsylvania, Philadelphia, PA, USA	
Employme	nt	
2019 – pre	ent Assistant Professor, Department of Biological Structure, University of Washington	on
2017 – 201	Senior Research Associate, University College London, London, UK	
2014 – 201	Research Associate, University College London, London, UK	
	Supervisors: Prof. Matteo Carandini and Prof. Kenneth D. Harris	
Large-sca	e Collaborations	
2019 – pre	ent <u>International Brain Laboratory</u> member	
2017 – pre	ent Program Coordinator, Neuropixels Consortium	
Publicatio	OS (Peer-reviewed except where noted. Bold : first or last author)	
	öder, Steinmetz, Krumin, Pachitariu, Rizzi, Lagnado, Harris, Carandini Arousal modulates retinal output	Neuron
Zat	a-Haas*, Steinmetz* , Carandini, Harris	bioRxiv
	A perceptual decision requires sensory but not action coding in mouse cortex preprint	
	International Brain Laboratory,, Steinmetz, et al.	bioRxiv
	Data architecture for a large-scale neuroscience collaboration preprint	
	Kempen, Gieselmann, Boyd, Steinmetz, Moore, Engel, Thiele <u>op-down coordination of local cortical state during selective attention</u> preprint	bioRxiv
	itriadis, Neto,, Steinmetz, et al.	bioRxiv
	Why not record from every electrode with a CMOS scanning probe? preprint	DIOTORIV
	nmetz, Zatka-Haas, Carandini, Harris Distributed Coding of Choice, Action, and Engagement Across the Mouse Brain	Nature
	el, Steinmetz	Curr Op in
	New Perspectives on Dimensionality and Variability from Large-scale Cortical	Neurobio
Ctri	<u>Oynamics</u> <i>review</i> ger*, Pachitariu*, Steinmetz, Carandini, Harris	Nature
	High-Dimensional Geometry of Population Responses in Visual Cortex	ivature
	ger*, Pachitariu*, Steinmetz, Reddy, Carandini, Harris	Science
	pontaneous Behaviors Drive Multidimensional, Brain-Wide Population Activity	
	naoka, 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 Striatal Activity Reflects Cortical Activity Patterns preprint	bioRxiv
2018	Steinmetz, Koch, Harris, Carandini Challenges and Opportunities for Large-Scale Electrophysiology with Neuropixels Probes review	Curr Op in Neurobio
	Jacobs, Steinmetz, Carandini, Harris <u>Cortical State Fluctuations During Sensory Decision Making</u> preprint	bioRxiv
	Shamash, Harris, Carandini, Steinmetz A Tool for Analyzing Electrode Tracks From Slice Histology preprint	bioRxiv
2017	Jun*, Steinmetz *, Siegle*, Denman*, Bauza*, Barbarits*, Lee*, et al. <u>Fully Integrated Silicon Probes for High-Density Recording of Neural Activity</u>	Nature
	Burgess*, Lak*, Steinmetz* , 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 Does the Superior Colliculus Control Perceptual Sensitivity or Choice Bias during Attention? Evidence from a Multialternative Decision Framework	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 Inhibitory Control of Correlated Intrinsic Variability in Cortical Networks	eLife
	Pachitariu, Steinmetz, Kadir, Carandini, Harris Fast and Accurate Spike Sorting of High-Channel Count Probes with Kilosort	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 Visual Space is Compressed in Prefrontal Cortex Before Eye Movements	Nature
	Sridharan, Steinmetz, Moore, Knudsen <u>Distinguishing Bias from Sensitivity Effects in Multialternative Detection Tasks</u>	J. of Vision
	Steinmetz Circuits Underlying Visual Attention in Primate Neocortex	Ph.D. Thesis
2012	Squire*, Steinmetz *, Moore <u>Frontal Eye Field</u> <i>review</i>	Scholarpedia
	Steinmetz, Moore Lumping and Splitting the Neural Circuitry of Visual Attention commentary	Neuron
2010	Steinmetz, Moore Changes in the Response Rate and Response Variability of Area V4 Neurons During the Preparation of Saccadic Eye Movements	J. of Neurophys

No	udoost, Chang, Steinmetz, Moore	Curr Op in
	Top-Down Control of Visual Attention review	Neurobio
2009 Ato	n, Seibt, Dumoulin, Jha, Steinmetz, Coleman, Naidoo, Frank Mechanisms of Sleep-Dependent Consolidation of Cortical Plasticity	Neuron
2008 Liu	Steinmetz, Farley, Smith, Joseph	J. of Cog
2000 210	Mid-fusiform Activation During Object Discrimination Reflects the Process of	Neurosci
	Differentiating Structural Descriptions	
2006 Jos	eph, Cerullo, Farley, Steinmetz, Mier fMRI Correlates of Cortical Specialization and Generalization for Letter Processing	Neuroimage
Jos	eph, Powell, Andersen,, Steinmetz, Zhang	J. of Neurosci
	fMRI in Alert, Behaving Monkeys: An Adaptation of the Human Infant Familiarization Novelty Preference Procedure	Methods
2005 Jha	Jones, Coleman, Steinmetz,, Frank	J. of Neurosci
	Sleep-Dependent Plasticity Requires Cortical Activity	,
	os and Awards	
2020 – pre		
2020 – pre	-	
2019 – pre	_	
2019 – 202		
2019 – pre		
2015 – 20		
2016 – 20	·	
2015	Newton Postdoctoral Fellowship from the Royal Society (awarded)	
2011 – 20	•	•
2009 – 20:	.1 Graduate Research Fellowship from the Stanford Center for Mind, Brain, and National Science Foundation, Integrative Graduate Education Research Train	•
2006 – 200	Blair Fellowship for Undergraduate Research in Bioengineering/Biomedical S University of Pennsylvania	Sciences from the
2005 – 200	7 University Scholars Fellowship for Undergraduate Research from the University	sity of Pennsylvania
Profession	nal Service	
2019 – pre	s. Editorial Board, <i>Scientific Data</i>	
2014 – pre	s. Peer reviewer for journals including <i>eLife</i> , <i>Neuron</i> , <i>Current Biology</i> , <i>J. of Neu Neurophysiology</i> , and <i>Cerebral Cortex</i>	roscience, J. of
Invited To	lks	
2020 May	Netherlands Institute for Neuroscience, Amsterdam, NL (virtual)	
2020 Mar	Cosyne Workshop on "Modules in the Brain", Breckenridge, CO, USA	
2020 Jan	Albert Einstein College of Medicine, New York, NY, USA	

2020 Jan

2019 Nov

2019 Oct

University of Oslo, Oslo, Norway

Allen Institute for Brain Science, Seattle, WA, USA

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	ng	
2012	FENS-IBRO-Hertie Winter School on "Neural Coding in Sensory Systems", Obergurgl, Austria	
2009	"Methods in Computational Neuroscience", Woods Hole, MA, USA	
Teaching Act	ivities	
2019	Course organizer and lecturer for Neuropixels Workshop, Allen Institute for Brain Science	
2019		
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" 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	
2018	Teaching Assistant for Cajal Course "Interacting with Neural Circuits", Champalimaud Centre,	
2017	Lisbon, Portugal	
2017	Course organizer and lecturer for <u>Neuropixels Training Course 2017</u> , 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, Information and Signaling in Neurons and Networks, with Dr. Richard Tsien
	and Dr. Stephen Baccus, Stanford University
2008	Teaching Assistant, "Stanford Intensive Neuroscience" graduate program boot camp