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Educ	ation			
2007	-2014	Ph.D., Neurosciences, Stanford University, Stanford, CA, USA		
		Supervisors: Prof. Tirin Moore (Neurobiology) and Prof. Kwabena Boahen (Bi	oengineering)	
2003 –2007		Bachelor of Science and Engineering in Bioengineering, summa cum laude		
		University of Pennsylvania, Philadelphia, PA, USA		
Empl	loyment			
2017 – present		Senior Research Associate, University College London, London, UK		
		Supervisors: Prof. Matteo Carandini (Ophthalmology) and Prof. Kenneth Harris (Neurology)		
2017	– present	Program coordinator, "Neuropixels 2" Wellcome Collaborative Award		
2014	- 2017	Research Associate, University College London, London, UK		
Peer-	-Reviewed F	Publications		
2017		metz NA*, Siegle JH*, Denman DJ*, Bauza M*, et al.	Nature	
		egrated Silicon Probes for High-Density Recording of Neural Activity		
	_	, Lak A*, Steinmetz NA *, Z atka-Haas P*, et al. d Methods for Accurate Two-Alternative Visual Psychophysics in Head-Fixed Mice	Cell Reports	
		A, Buetfering C, Lecoq J, Lee CR, et al.	eNeuro	
		Cortical Activity in Multiple GCaMP6-Expressing Transgenic Mouse Lines	creare	
		Steinmetz NA, Moore T, Knudsen El	J. of Neurosci	
		Superior Colliculus Control Perceptual Sensitivity or Choice Bias during Attention? from a Multialternative Decision Framework		
2016		teinmetz NA*, Gieselmann MA, Thiele A, Moore T, Boahen K	Science	
2010	_	modulation of cortical state during spatial attention	Science	
	_	achitariu M, Steinmetz NA , Okun M, Bartho P, Harris K, Sahani M, Lesica N	eLife	
		y control of correlated intrinsic variability in cortical networks		
		I, Steinmetz NA, Kadir S, Carandini M, Harris KD accurate spike sorting of high-channel count probes with KiloSort	NIPS	
2015		inmetz NA, Carandini M, Harris KD	Nature	
2015		coupling of neurons to populations in sensory cortex	Nature	
2014	Sridharan D,	Steinmetz NA, Moore T, Knudsen El	J. of Vision	
	<u>Distingui</u>	shing bias from sensitivity effects in multialternative detection tasks		
	Steinmetz N	A, Moore T ement Preparation Modulates Neuronal Responses in Area V4 When Dissociated	Neuron	
		entional Demands		
	Steinmetz N		Ph.D. Thesis	
	Circuits u	underlying visual attention in primate neocortex		
	•	teinmetz NA, Noudoost B, Xu K, Moore T	Nature	
2040		ace is compressed in prefrontal cortex before eye movements	1 - f N	
2010	Steinmetz N Changes	A, Moore T in the Response Rate and Response Variability of Area V4 Neurons During the	J. of Neurophys	
		The state of the s		

2009 Aton SJ, Seibt J, Dumoulin M, Jha SK, Steinmetz N , Coleman T, Naidoo N, Frank MG <u>Mechanisms of Sleep-Dependent Consolidation of Cortical Plasticity</u>		Preparation of Saccadic Eye Movements	
Liu X, Steinmetz NA, Farley AB, Smith CD, Joseph JE Mid-fusiform activation during object discrimination reflects the process of differentiating structural descriptions 2006 Joseph JE, Cerullo MA, Farley AB, Steinmetz NA, Mier CR fMRI correlates of cortical specialization and generalization for letter processing Joseph JE, Powell DK, Andersen AH,, Steinmetz NA, Zhang Z fMRI in alert, behaving monkeys: an adaptation of the human infant familiarization novelty preference procedure 2005 Jha SK, Jones BE, Coleman T, Steinmetz N,, Frank MG Sleep-Dependent Plasticity Requires Cortical Activity Preprints 2018 Steinmetz NA, Zatka-Haas P, Carandini M, Harris KD Distributed correlates of visually-guided behavior across the mouse brain Stringer C*, Pachitariu P*, Steinmetz NA, Carandini M, Harris KD Stringer C*, Pachitariu P*, Steinmetz NA, Carandini M, Harris KD Spontaneous behaviors drive multidimensional, prain-wide population activity Jacobs EAK, Steinmetz NA, Carandini M, Harris KD Cortical state fluctuations during sensory decision making Okum M, Steinmetz NA, Lak A, Dervinis M, Harris KD District structure of cortical population activity on fast and infraslow timescales Shamash P, Harris KD, Carandini M, Steinmetz NA A tool for analyzing electrode tracks from slice histology Pettine WW, Steinmetz NA, Moore T Laminar Segregation of Sensory Coding and Behavioral Readout in Macaque V4 Reviews and Commentary 2018 Steinmetz NA, Moore T Lumping and splitting the neural circuitry of visual attention 2010 Noudoost B, Chang MH, Steinmetz NA, Moore T Frontal Eye Fields Steinmetz NA, Moore T Lumping and splitting the neural circuitry of visual attention 2010 Noudoost B, Chang MH, Steinmetz NA, Moore T Fordown control of visual attention Fellowships and Awards 2015 − pres. Postdoctoral Fellowship from the Human Frontier Sciences Program. £93,789. 2016 − 2018 Postdoctoral Fellowship from the Marie Curie Action of the EU. €183,454.80.	2009		Neuron
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Teaching Activities Course instructor for Cajal Course "Linking Neural Circuits and Behavior", Bordeaux, France Course instructor for Paris Neuro, Paris, France Course organizer and lecturer for Neuropixels Training Course 2018, University College London Teaching Assistant for Cajal Course "Interacting with Neural Circuits", Champalimaud Centre, Lisbon, Portugal Course organizer and lecturer for Neuropixels Training Course 2017, University College London Course organizer and lecturer for Neuropixels Training Course 2017, University College London Mentor for graduate student Peter Zatka-Haas on the project "Manipulation of neural circuitry underlying visually-guided decision making in mice", University College London Mentor for rotating graduate student Isaac Kauvar on the project "Methods for computing cross-areal coherence in the primate visual system", Stanford University Teaching Assistant, Large-scale neural models, with Dr. Kwabena Boahen, Stanford University	2012	FENS-IBRO-Hertie Winter School on "Neural Coding in Sensory Systems", Obergurgl, Austria			
Course instructor for Cajal Course "Linking Neural Circuits and Behavior", Bordeaux, France Course instructor for Paris Neuro, Paris, France Course organizer and lecturer for Neuropixels Training Course 2018, University College London Teaching Assistant for Cajal Course "Interacting with Neural Circuits", Champalimaud Centre, Lisbon, Portugal Course organizer and lecturer for Neuropixels Training Course 2017, University College London Course organizer and lecturer for Neuropixels Training Course 2017, University College London Mentor for graduate student Peter Zatka-Haas on the project "Manipulation of neural circuitry underlying visually-guided decision making in mice", University College London Mentor for rotating graduate student Isaac Kauvar on the project "Methods for computing cross-areal coherence in the primate visual system", Stanford University Teaching Assistant, Large-scale neural models, with Dr. Kwabena Boahen, Stanford University	2009	"Methods in Computational Neuroscience", Woods Hole, MA, USA			
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Teaching Assistant for Cajal Course "Interacting with Neural Circuits", Champalimaud Centre, Lisbon, Portugal Course organizer and lecturer for Neuropixels Training Course 2017, University College London Mentor for graduate student Peter Zatka-Haas on the project "Manipulation of neural circuitry underlying visually-guided decision making in mice", University College London Mentor for rotating graduate student Isaac Kauvar on the project "Methods for computing cross-areal coherence in the primate visual system", Stanford University Teaching Assistant, Large-scale neural models, with Dr. Kwabena Boahen, Stanford University	2018	Course instructor for Paris Neuro, Paris, France			
Lisbon, Portugal Course organizer and lecturer for Neuropixels Training Course 2017, University College London Mentor for graduate student Peter Zatka-Haas on the project "Manipulation of neural circuitry underlying visually-guided decision making in mice", University College London Mentor for rotating graduate student Isaac Kauvar on the project "Methods for computing cross-areal coherence in the primate visual system", Stanford University Teaching Assistant, Large-scale neural models, with Dr. Kwabena Boahen, Stanford University	2018	Course organizer and lecturer for Neuropixels Training Course 2018, University College London			
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underlying visually-guided decision making in mice", University College London Mentor for rotating graduate student Isaac Kauvar on the project "Methods for computing cross-areal coherence in the primate visual system", Stanford University Teaching Assistant, Large-scale neural models, with Dr. Kwabena Boahen, Stanford University	2017	Course organizer and lecturer for Neuropixels Training Course 2017, University College London			
cross-areal coherence in the primate visual system", Stanford University Teaching Assistant, <i>Large-scale neural models</i> , with Dr. Kwabena Boahen, Stanford University	2015 – pres.	· · · · · · · · · · · · · · · · · · ·			
	2014				
Teaching Assistant, <i>Computational Neuroscience</i> , with Dr. John Huguenard, Stanford University	2012	Teaching Assistant, Large-scale neural models, with Dr. Kwabena Boahen, Stanford University			
	2011	Teaching Assistant, Computational Neuroscience, with Dr. John Huguenard, Stanford University			

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

Selected Conference Presentations

- Chen S, Neto J, Pachitariu M, Kampff A, **Steinmetz NA.** On the shape and extent of extracellular action potential waveforms across the rodent brain. Poster at Society for Neuroscience 2018, San Diego, CA, USA
- **Steinmetz NA,** Zatka-Haas P, Carandini M, Harris KD. Local and global neural correlates of a perceptual decision. Poster at Federation of European Neuroscience Societies (FENS) 2018, Berlin, Germany
- **Steinmetz NA,** Zatka-Haas P, Carandini M, Harris KD. Local and global neural correlates of a perceptual decision. Poster at AREADNE 2018, Santorini, Greece
- **Steinmetz NA,** Zatka-Haas P, Carandini M, Harris KD. Distributed neuronal populations underlying vision, action, and reward across the mouse brain. Poster at Computational and Systems Neuroscience (Cosyne) 2018, Denver, CO, USA
- **Steinmetz NA,** Zatka-Haas P, Carandini M, Harris KD. Neuronal populations supporting vision, action, and reward across the mouse brain. Poster at Society for Neuroscience 2017, Washington, DC, USA
- **Steinmetz NA,** Carandini M, Harris KD. Distributed neuronal populations supporting vision, action, and reward across the mouse brain. Poster at International Conference for Advanced Neurotechnology 2017, Freiburg, Germany.
- **Steinmetz NA,** Pachitariu M, Burgess CP, Rossant C, Harris T, Carandini M, Harris KD. Recording large, distributed neuronal populations with next-generation electrode arrays in behaving mice. Poster at Society for Neuroscience 2016, San Diego, CA, USA
- **Steinmetz NA**, Pachitariu M, Rossant C, Hunter MLD, Neto JP, Kampff A, Carandini M, Harris KD. Neuropixels and Kilosort: 384-channel recordings in awake mice and improved spike-sorting software. Poster at International Conference for Advanced Neurotechnology 2016, Ann Arbor, MI, USA
- **Steinmetz NA,** Burgess CP, Kadir SN, Rossant C, Goodman DFM, Hunter MLD, Carandini M, Harris KD. Neural correlates of visually-guided behavior in mouse cingulate cortex. Poster at Society for Neuroscience 2015, Chicago, IL, USA
- **Steinmetz NA**, Kadir SN, Rossant C, Goodman DFM, Hunter MLD, Carandini M, Harris KD. Next-generation microelectrode arrays for probing the neocortical circuits underlying visually-guided behavior. Poster at Brain Informatics and Health 2015, London, UK * Awarded Best Poster
- **Steinmetz NA**, Moore T. Circuits underlying covert attention and saccade preparation within the primate frontal eye field. Poster at FENS Brain Conference on Controlling Neurons, Circuits, and Behavior 2014, Copenhagen, Denmark
- **Steinmetz NA**, Moore T. Circuits underlying covert attention and saccade preparation within the primate frontal eye field. Poster at Society for Neuroscience 2014, Washington, D.C., USA
- Engel T, **Steinmetz NA**, Moore T, Boahen K. Effects of attention on spatio-temporal correlations across layers of a single column in area V4. Poster at Computational and Systems Neuroscience (Cosyne) Conference 2013, Salt Lake City, UT, USA
- **Steinmetz NA**, Benjamin BV, Boahen K. NMDA-mediated feedback accounts for effects of visual spatial attention in Neurogrid simulations. Poster at Computational and Systems Neuroscience (Cosyne) Conference 2013, Salt Lake City, UT, USA

- **Steinmetz NA**, Moore T. Simultaneous measurement of visual response modulation across cortical layers in area V4 during covert attention and saccade preparation. Poster at Society for Neuroscience 2012, New Orleans, LA, USA
- **Steinmetz NA**, Moore T. Pattern of attentional and presaccadic modulation of visual responses in macaque V4 measured simultaneously across cortical layers. Poster at Computational and Systems Neuroscience (Cosyne) Conference 2012, Salt Lake City, UT, USA
- **Steinmetz NA**, Moore T. Pattern of attentional and presaccadic modulation of visual responses in macaque V4 measured simultaneously across cortical layers. Poster at FENS-IBRO Winter School: Neural Coding in Sensory Systems 2012, Obergurgl, Austria
- **Steinmetz NA**, Moore T. Pattern of presaccadic modulation of visual responses in macaque V4 measured simultaneously across cortical layers. Poster at Society for Neuroscience 2011, Washington, D.C., USA
- Benjamin B, McQuinn E, Gao P, Choudhary S, **Steinmetz NA**, Moore T, Boahen K. Simulating a Two-Cortical Area Model of Top-Down Attention on Neurogrid. Poster at NIH Pioneer Conference 2011, Washington, D.C., USA
- Merolla P, Arthur J, Benjamin B, Neil D, Elassaad S, **Steinmetz NA**, Moore T, Boahen K. Simulating Cortical Neuron Populations in Real-Time on the Neurogrid Desktop Supercomputer. Poster at NIH Pioneer Conference 2010, Washington, D.C., USA
- **Steinmetz NA**, Moore T. (2010) Changes in the Response Rate and Response Variability of Area V4 Neurons
 During the Preparation of Saccadic Eye Movements. Poster at Computational and Systems Neuroscience
 (Cosyne) Conference 2010, Salt Lake City, UT, USA
- **Steinmetz NA**, Moore T. (2008) A Signature of Eye Movement Preparation in the Response Variability of Area V4 Neurons. Poster at Dynamical Neuroscience XVI, Washington D.C., USA