

William Liberti

CONTACT INFORMATION	1152 Euclid Ave Berkeley, CA 94708	617-529-0762
RESEARCH INTERESTS	Systems Neuroscience, Reinforcement Learning, Neural Engineering, Neurophotonics.	
EDUCATION	Boston University Graduate Medical School , Boston, MA Ph.D., Neuroscience, Advisor: Timothy Gardner, Ph.D	2012–2017
EXPERIENCE	Morphosis Neurotech Founder and CEO <i>Company Summary:</i> Building human-technology interfaces that are personalized, secure and intuitive. University of California, Berkeley Postdoctoral Fellow, Department of Electrical Engineering & Computer Science (EECS) <i>Research Summary:</i> Led various scientific and engineering teams to develop wireless optical neural recording technologies and perform large-scale neural recordings in freely behaving animals. Boston University Graduate Researcher & Neurophotonics Fellow, Graduate Program in Neuroscience (GPN) <i>Research Summary:</i> Designed and implemented minimally invasive neurotechnology to study motor learning and neural network stability.	2022–present 2017–2022 2013–2017
SELECTED PUBLICATIONS & PROCEEDINGS	<ol style="list-style-type: none">1. Liberti W*, Schmid T*, Forli A, Snyder M, Yartsev M "A Stable Hippocampal Code Underlies Aerial Navigation" <i>Nature</i> 604 p98-103 (2022)2. Alvarado JS, Goffinet J, Michael V, Liberti W, Hatfield J, Gardner TJ, Pearson J, Mooney R. "Neural dynamics underlying birdsong practice and performance" <i>Nature</i> 599, p635-639 (2021)3. Liberti D, Kremp M, Liberti W, Penkala I, Li S, Zhou S, Morrisey EE "Alveolar epithelial cell fate is maintained in a spatially restricted manner to promote lung regeneration after acute injury" <i>Cell Reports</i> 35.6 (2021): 109092.4. Yanny K*, Antipa N*, Liberti W, Dehaeck S, Monakhova K, Liu FL, Shen K, Ng R, Waller L "Randoscope: Computational Single-shot Miniature 3D Fluorescence Microscopy" <i>Light: Science & Applications</i> 171 (2020)5. Yanny K*, Antipa N*, Liberti W, Dehaeck S, Monakhova K, Liu FL, Shen K, Ng R, Waller L "Compressed Sensing 3D Fluorescence Microscopy Using Optimized Phase Mask." <i>Computational Optical Sensing and Imaging</i> (2020)6. Cohen Y, Shen J, Semu D, Leman DP, Liberti W, Perkins LN, Gardner TJ "Hidden neural states underlie canary song syntax." <i>Nature</i> 582, p539-544 (2020)7. Liberti W, Gong XL, Rosebery TR, Carmena JM, "Local network coordination supports neuro-prosthetic control." <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> (2019)8. Liberti W, Perkins LN, Leman DP, Gardner TJ "An open source, wireless capable miniature microscope system" <i>Journal of Neural Engineering</i> 14.4 (2017): 045001.9. Liberti W*, Markowitz JE*, Perkins LN, Leman DP, Liberti DC, Guitchounts G, Velho T, Lois C, Kotton DN, Gardner TJ "Unstable neurons underlie a stable learned behavior" <i>Nature Neuroscience</i> 19.12 (2016): 1665-1671.10. Markowitz JE*, Liberti W*, Guitchounts G, Velho T, Lois C, Gardner, TJ "Mesoscopic patterns of neural activity support songbird cortical sequences" <i>PLoS Biology</i>, 13.6 (2015): e1002158.11. Guitchounts G*, Markowitz JE*, Liberti W*, Gardner TJ "A carbon-fiber electrode array for long-term neural recording." <i>Journal of Neural Engineering</i>, 10, 046016 (2013). * indicates co-authorship	
PATENTS	Minimally invasive splaying microfiber electrode array and methods of fabricating and implanting the same. U.S. Patent Application 14/902,734, 2014 Tissue spectrophotometry for human-computer and human-machine interfacing. U.S. Patent Application 63/343,9, 2022	
SERVICE	CELEST Electronics & Experimental Design Course Resident Assistant Ad Hoc Referee: <i>PLoS ONE</i> , <i>IEEE/EBMC</i> , <i>eLife</i> (Reviewing Editor),	2013–2017 2011–2017 2016–present