Greg Kronberg

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Education		
PhD Biomedical Engineering, The City C	ollege of New York	Expected 2019
MS Biomedical Engineering, The City Co	ollege of New York	2015
BS Physiology & Neurobiology, University of Maryland College Park		2010
Academic Research		
Graduate Research Assistant, City Colle	ge of New York, Neural Engineering	2013-Present
 Optimizing electrical brain stimulatio 	n to enhance synaptic plasticity and associative	
learning, using computational models	and in vitro electrophysiology	
Industry Research		
Research Scientist I, Soterix Medical		2012-13
 Optimized and patented electrode de 	sign for brain stimulation, using FEM modeling	
Teaching		
Teaching Assistant, City College of New York		2015-
Biomedical signal processing (graduate, 2016-present)		Present
 Biostatistics and research methods (u 	ndergraduate, 2015-2016)	
MCAT Course Instructor, Kaplan Test Pr	ер	2010-2013
 Taught classes of ~30 students cov 	ering undergraduate biology, chemistry, and physic	S
Technical Skills		
Programming languages:		Python, Matlab
Data Analysis:		ocessing, machine learning
Computational Neuroscience:	Multi-compartment single neurons (NEURON),	
Experimental Neuroscience:	In vitro electrophysiology	
Medical device design:	Finite e	lement method (COMSOL)
Publications		
• Liu A, Voroslakos M, Kronberg G, et al. "I		2018
transcranial electrical stimulation." Natur		2010
• Bikson M, Kronberg G , et al. "Synaptic tra		2018
 processes govern the transition from pre- Kronberg G et al. "Direct current stimulation of the stimulation of	•	2017
dependence and dendritic effects" Brain	•	2017
•	dels of transcranial direct current stimulation:	2016
methods and mechanisms" <i>Clinical Neuro</i>		2010
• Bikson M, Kronberg G et al. "Safety of tra	nscranial direct current stimulation: evidence	2016
 based update 2016" Brain Stimulation Kronberg G, Bikson M. "Electrode assem 	hly design for transcrapial Direct Current	2012
 Kronberg G, Bikson M. Electrode assem Stimulation: A FEM modeling study," IEEE 		2012
Sumulation. A Live modeling study, ILL	. Engineering in medicine and biology	

Patents

 Electrode Assembly, RF CUNY, US Patent Number 9956395 	2018

Presentations

• Society for Neuroscience, <i>poster</i> : "A Hebbian framework for predicting modulation of synaptic plasticity with tDCS." San Diego, CA	2018
• North American Neuromodulation Society, <i>invited talk</i> : "tDCS boosts Hebb: Explaining the sensitivity and selectivity of tDCS." New York NY.	2018
• Society for Neuroscience, <i>poster</i> : "Direct current stimulation and synaptic plasticity." Washington D.C.	2017
• CCNY Works in Progress Seminar, <i>invited talk</i> : "Modulating synaptic plasticity with tDCS." New York NY.	2017
 NYC Neuromodulation, poster: "Direct current stimulation modulates LTP and LTD: activity dependence and dendritic effects." New York NY. 	2017
 Society for Neuroscience, talk (nanosymposium): "Direct current stimulation modulates LTP and LTD: activity dependence and dendritic effects." San Diego CA. 	2016
• CCNY Biomedical Engineering Seminar Series, <i>invited talk</i> : "Modulating synaptic plasticity with tDCS." New York NY.	2016
• Society for Neuroscience, poster: "Direct current stimulation modulates bidirectional synaptic plasticity." Chicago IL.	2015
• NYC Neuromodulation, <i>invited talk</i> : "Electric fields boost LTP in vitro." New York NY.	2015
• Society for Neuroscience, poster: "Electric fields boost LTP in vitro." Washington D.C.	2014
• IEEE Engineering in Medicine and Biology, <i>poster</i> : "Electrode assembly design for transcranial Direct Current Stimulation: A FEM modeling study" San Diego CA.	

Fellowships & Awards

 Harold Shames Award, Graduate Academic Excellence, City College of New York NYC Neuromodulation Student Research Award NIH graduate research fellowship: R01 MH092926 Neural Engineering Award, City College of New York Biomedical Engineering 	2018
 Harold Shames Award, Graduate Academic Excellence, City College of New York NYC Neuromodulation Student Research Award NIH graduate research fellowship: R01 MH092926 Neural Engineering Award, City College of New York Biomedical Engineering 	2017
 NYC Neuromodulation Student Research Award NIH graduate research fellowship: R01 MH092926 Neural Engineering Award, City College of New York Biomedical Engineering 	5-2018
 NIH graduate research fellowship: R01 MH092926 Neural Engineering Award, City College of New York Biomedical Engineering 	2015
• Neural Engineering Award, City College of New York Biomedical Engineering	2015
	2015
	2013
• Wallace H. Coulter foundation graduate research fellowship	2013

Activities & Memberships

Abstract Review Committee, North American Neuromodulation Society Summer Series	2018
 Okinawa Computational Neuroscience Course, Okinawa Institute of Science and Tech. 	2017
 Neural Engineering Seminar Organizer, City College of New York 	2016-2018
• Ad-hoc reviewer: Brain Stimulation, Brain Research, Transactions on Biomedical Engineering,	2015-2018
PLoS Computational Biology, Neuropharmacology	
 Society for Neuroscience Member 	2014-2018
 Biomedical Engineering Society Member 	2012-2018