Colin Gerber

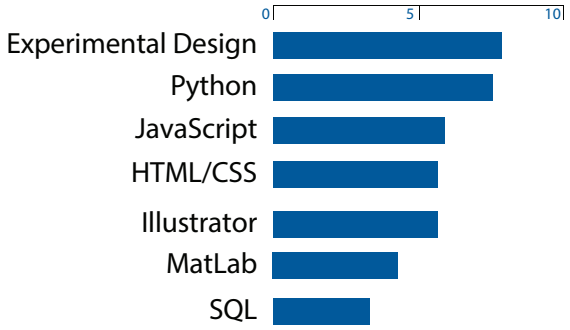
WEB: colingerber.com
Email: colin.gerber@gmail.com
PHONE: 858 775 0580

EDUCATION

2013 - Present — I School at UC Berkeley
MIMS (Masters in Information Management and Systems)

2007 - 2011 — UC Santa Barbara
BS Neuroscience

SKILLS



WORK EXPERIENCE

2013 - Present — Homeland Security Fellowship - Nuclear Forensics
Graduate Research Assistant
Using Python to create programs that match unknown nuclear fuel samples to the most likely nuclear reactors that the samples could have come from.

2011-2013 — National Institutes of Health
Postbaccalaureate Intramural Research Training Award
The research was looking at relationships between dopamine and basal ganglia-thalamocortical system function and dysfunction, especially with respect to movement disorders such as Parkinson's.
Created programs in Spike 2 and Matlab to improve the efficiency of the data analysis process.
Worked on several different experiments doing surgeries, electrophysiological recordings, data analysis, and creating scripts to improve the efficiency of the process.

2009-2011 — UC Santa Barbara
Research Assistant
Created Matlab algorithms that analyzed experimental results. Worked with a group of postdocs running several different experiments with human subjects. Attempted to validate a new method of analyzing fMRI data.

PUBLICATIONS

Journal of Neuroscience:
State Dependent Spike and Local Field Synchronization between Motor Cortex and Substantia Nigra in Hemiparkinsonian Rats - 2012

SFN San Diego:
Motor Cortex and Prefrontal Cortex Show Coherence with Subthalamic Nucleus Activity in Different Beta and Gamma Frequency Ranges in Awake Behaving Hemiparkinsonian Rats - 2013

SFN San Diego:
High Gamma Cortical Activity in the Development of L-dopa-Induced Dyskinesia in a Rodent Model of Parkinson's Disease - 2013

REFERENCE

Available upon request