Benjamin E. Shanahan

Class of 2017, Sc. B. in Neuroscience with Honors, Magna Cum Laude, Brown University Class of 2013, Boston Latin School

Curriculum Vitae August 2017

Contact Information

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Work Experience

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2017 - Present	Computer Programmer Work on development of new embedded compute modern brain-computer interface systems. Code Supervisors: Dr. Leigh Hochberg & Dr. John Sir	development in the C programming language.
2016 - 2017	Research Assistant Implemented Kalman filter in closed-loop autobration system. Honors thesis research in idle st Supervisors: Dr. Leigh Hochberg & Dr. David B	ate detection in BCIs.
2015 - Present	Research Assistant Analyzed shape of brain rhythms in running ra Work on figures and logic for first-author journa analysis. Shadowed epileptologist at Rhode Islan Supervisor: Dr. Omar Ahmed	al article. Developed Matlab toolbox for shape
2014 - Present	Matlab Consultant Write desired Matlab code for analyses and/or of Supervisor: Dr. Rebecca Burwell	Burwell Lab, Brown University, Providence, RI data processing. Attend lab meetings.
Summer 2014, 2013	Research Assistant Cashl Developed affordable OpBox rat operant condition Semiology Diagnostic Tool to objectively diagnory during surgical meetings. Developed Matlab code data. Supervisors: Dr. Sydney Cash & Dr. Brandon W	ose region of seizure onset and settle conflicts to detect high-frequency oscillations in epilepsy
Summer 2012	Tech Apprentice Summer intern in the Flexible Work Department analyzed data from internal FlexTrax website. For pulling reports in Visual Basic. Helped solve to the pulling reports in Visual Basic.	Designed and programmed time-saving macro

Honors & Awards

tool.

Manager: Chris Siclari

2017	Sc. B. in Neuroscience with Honors, Magna Cum Laude	Brown University
2015	Matthew Siravo Undergraduate Award in Epilepsy	Brown University
2013	Campbell Medal	Boston Latin School
2013	T. Vincent Learson Scholarship	Boston Latin School
2013	Horace M. Chadsley '14 Scholarship	Boston Latin School

2012	National Honor Society	Boston Latin School
2010-12	Francis Gardner Prize for Excellence in Modern Studies	Boston Latin School

Abstracts

2015	Society for Neuroscience Chicago OpBox: Open-source development of customized and cost-effective hardware and software for behavioral neurophysiology. Brian F. Coughlin, Benjamin E. Shanahan, Giovanni Piantoni, Sydney S. Cash, Eyal Y. Kimchi.
2014	American Epilepsy Society Human Single Neuron Correlates Of High Frequency Oscillations During Seizures. Omar J. Ahmed, Mark A. Kramer, Jason S. Naftulin, Benjamin Shanahan, Emad N. Eskandar, Rees Cosgrove, N. Stevenson Potter, Andrew Blum, Leigh Hochberg, Sydney S. Cash.

Skills & Interests

Research	Organization and analysis of massive multi-day, multi-subject data sets.
Code	Highly proficient in C. Advanced knowledge of Matlab. Advanced knowledge of object-oriented programming techniques in Python, ActionScript 3, Java. Advanced knowledge of web design and maintenance.
Computers	Advanced knowledge of Adobe Software Suite, Microsoft Office. Advanced knowledge of troubleshooting hardware & software issues in Windows and Linux.
Projects	Developed an autonomous drone delivery service with integrated web-app. Developed audio visualizer for making parties more exciting. Developed rocket flight computer with logging and rotational sensors to deploy a parachute at apogee. Co-founded and ran an art-centric club at University for 2.5 years. More information on my website (bshanahan.info).
Language	Fluent in English; French conversational, reading, and writing skills; Spanish reading and writing skills; study of Latin
Personal	Highly organized, motivated, responsible, and resourceful. Team leader and collaborator. Perseverant and committed to projects. Creative and efficient problem solver. Not afraid to ask for help when necessary. Able to self-teach new concepts quickly and effectively.