

JOSHUA MICHAEL KHANI

PERSONAL INFORMATION

email joshua.khani@duke.edu
website [linkedin.com/in/joshuakhani](https://www.linkedin.com/in/joshuakhani)

EDUCATION

Duke University, Durham, NC

PhD Student
2015-Present Biomedical Engineering · *Neuroengineering* · Pratt School of Engineering
Advisor: Prof. Miguel NICOLELIS

Georgetown University, Washington, DC

Master of Science
2014-2015 Biotechnology · *BioBusiness and Drug Design & Discovery* · Medical Center
GPA: 4.0/4.0

Stanford University, Stanford, CA

Bachelor of Science
2007-2011 Biology · *Neurobiology* · School of Humanities and Sciences
GPA: 3.6/4.0
Honors Thesis: Determining the Relative Contribution of NMDA Calcium Channels to Ischemic Neuronal Damage Using a New Physiologically Relevant *In Vitro* Stroke Medium.
Advisors: Dr. Bruce MACIVER & Prof. Robert SAPOLSKY

RESEARCH EXPERIENCE

Jun-Aug
2015 Summer Engineering Intern — Livermore, CA

Lawrence Livermore National Laboratory
Investigated effect of varying amplitude, pulse width, and phase shape of electrical stimulation on electrophysiological response of rat dorsal root ganglion cells cultured on multi-electrode array component of LLNL's *in vitro* Chip-based Human Investigational Platform.
Reference: Dr. Sarah FELIX · (925) 423-4921 · felix5@llnl.gov

Jan-May
2015 Graduate Student Intern — Washington, DC

Lab for Computational Cognitive Neuroscience
Operated and tested vibrotactile transducer for EEG/fMRI study investigating cross-modal perceptual learning. Programmed tactile stimulation patterns using MATLAB to test semantic versus non-semantic categorization.
Reference: Prof. Maximilian RIESENHUBER · (202) 687-9198 · max.riesenhuber@georgetown.edu

2009-2011 Undergraduate Researcher — Stanford, CA

Neuropharmacology Laboratory
Conducted experiments using electrophysiological and neuropharmacological techniques on rat hippocampal brain slices to study the neuroprotective effects of NMDA channel blocker following ischemic insult.
Reference: Dr. Bruce MACIVER · (650) 725-5851 · maciver@stanford.edu

PUBLICATIONS

October 2010 Proceedings of the 2010 Annual Meeting of the American Society Anesthesiologists

Abstract "Removal of Calcium Significantly Enhances Ischemic Insult Recovery in Rat Hippocampal Brain Slices." Authors: Bruce MACIVER, Joshua KHANI

COMPUTER SKILLS

Basic R Programming

Intermediate MATLAB, Microsoft Windows

OTHER INFORMATION

Communication Skills

- 2015 · Poster at LLNL Summer Research Symposium in California
- 2015 · Poster at Georgetown University Biochemistry and Biotechnology Poster Presentations in D.C.
- 2010 · Oral presentation at Neurobiology of Disease in Children Symposium in Rhode Island
- 2009 · Oral presentation at Western Literature Association Conference in South Dakota

Awards

- 2007 & 2015 · Bob Leonard Memorial Scholarship – IHOP Corporation
- 2015 · Academic Excellence Award – Georgetown University Medical Center
- 2015 · Certificate of Excellence in Entrepreneurship – Georgetown University Medical Center
- 2015 · Certificate of Excellence in Science Internship – Georgetown University Medical Center
- 2014 · Merit-Based Scholarship – Georgetown Biomedical Graduate Education
- 2011 · Amgen Fellowship – Teach For America
- 2011 · Certificate of Research Excellence – Stanford University School of Medicine
- 2010 · Young Investigator Award – Neurobiology of Disease in Children Symposium
- 2009 · Howard Hughes Medical Institute Fellowship
- 2007 · Valedictorian – Gulfport High School
- 2007 · Rotary Club Scholarship – Rotary Club of Gulfport Scholarship Fund
- 2007 · Robert C. Byrd Scholarship – Robert C. Byrd Honors Scholarship Program
- 2006 · White Star Award – Valley Forge Military Academy
- 2006 · Best New Cadet – Valley Forge Military Academy