

Curriculum Vitae  
**Jasmine Kwasa**

## **Education**

**Boston University** (BU), Boston MA

Ph.D. Candidate in Biomedical Engineering (BME)

2014 - Present

M.S. in Biomedical Engineering

2017

**Washington University in St. Louis** (WU), St. Louis MO

2013

B.S. in Biomedical Engineering, Minor in Electrical Engineering

## **Research**

### Experience

**Boston University Biomedical Engineering:** Auditory Neuroscience Lab

2015-Present

*Advisor:* Dr. Barbara Shinn-Cunningham, Ph.D.

*Thesis Research:* Neural correlates of selective auditory and visual attention in Attention Deficit Hyperactivity Disorder (ADHD)

**Boston University Center for Teaching and Learning**

Fall 2016

*Teaching as Research Project:* The impact of word mapping on students' concept integration in a flipped classroom environment for Signals and Systems

**Washington University Electrical and Systems Engineering:** Brain-Computer Interface Club

2013-2014

*Advisor:* Arye Nehorai, Ph.D.

*Student Team Design Project:* A Hands-free eBook reader based on steady-state visually evoked potentials

**Washington University Biomedical Engineering:** SSE Lab

2009-2012

*Advisors:* Dr. Shelly Sakiyama-Elbert, Ph.D. and Nithya Jesuraj, Ph.D.

*Research Project:* Investigating the differentiation and viability of Schwann Cells *in vitro* through co-culturing with other cells and supplementation with growth factors.

**University of Illinois at Chicago:** Lab for Process and Product Design

2008-2009

*Advisors:* Andreas Linninger, Ph.D., and Sukhi Basati, PhD

*Senior Research Project:* Generating computer models of human and rat hydrocephalus from MRI

### Publications

Nithya J. Jesuraj, Laura M. Marquardt, **Jasmine A. Kwasa**, Shelly E. Sakiyama-Elbert, "Glial cell line-derived neurotrophic factor promotes increased phenotypic marker expression in femoral sensory and motor-derived Schwann cell cultures". *Experimental Neurology*, Volume 257, July 2014, Pages 10-18, ISSN 0014-4886

Jenny Liu, Will Ransohoff, Jason Dunkley, **Jasmine Kwasa**, David Welshon, Maisie Mahoney, Matt Everett, Jake Lefkowitz. "Eyereader: SSVEP-Based BCI". 2013 IEEE Neural Engineering Short Papers No. 0673.

### Invited Talks

**Jasmine Kwasa**, Barbara Shinn-Cunningham, “Neural correlates of selective auditory and visual attention in ADHD”, Australian Science of Learning satellite conference, Brisbane, Australia, September 2017

**Jasmine Kwasa** “Concept Integration in a Studio Format of Signals and Systems”, Boston University Teaching as Research Symposium, December 2016

### Poster Presentations

**Jasmine Kwasa**, Barbara Shinn-Cunningham, “A Comparison of Alpha Oscillation Extraction Techniques for Auditory and Visual Spatial Selective Attention Tasks” Poster presentation at Auditory EEG Signal Processing (AESoP) symposium, Leuven, Belgium, May 2018

**Jasmine Kwasa**, Laura María Torres, Barbara Shinn-Cunningham, “Individual differences in selective attention to homologous auditory and visual tasks” Poster presentation at the Advanced Perspectives in Auditory Neuroscience (APAN) meeting and Society for Neuroscience, Washington DC, November 2017

**Jasmine Kwasa**, Barbara Shinn-Cunningham, “Neural Correlates of selective auditory and visual attention in ADHD” Poster presentation at the International Science of Learning Conference, Brisbane, Australia, September 2017

**Jasmine Kwasa**, Scott Bressler, Barbara Shinn-Cunningham, “Attention-modulated Neural Responses to a Dynamic Auditory Selective Attention Task”, Poster presentation at QBP Fellowship Symposium at Boston University, December 2016

Scott Bressler, Lia Bonacci, **Jasmine Kwasa**, Barbara Shinn-Cunningham, “Attention-modulated Neural Responses to a Dynamic Visual Selective Attention Task”, Poster presentation at Society for Neuroscience, Chicago IL, November 2015

William Ransohoff, Jason Dunkley, Matthew Everett, **Jasmine Kwasa**, Jenny Liu, “eyeReader: SSVEP-Based BCI”, Poster presentation at IEEE Engineering in Medicine and Biology Society (EMBS) International Neural Engineering conference, San Diego CA, November 2013

**Jasmine Kwasa**, Nithya Jesuraj, Shelly Sakiyama-Elbert, “Effects of Nerve Growth Factor on Schwann Cell Viability and Proliferation”, Poster presentation at Biomedical Engineering Society (BMES) Annual Meeting, Atlanta GA, November 2012

**Jasmine Kwasa**, Nithya Jesuraj, Shelly Sakiyama-Elbert, “Effects of fibroblast signaling on Schwann cell differentiation for peripheral nerve injury” Poster presentation at Washington University Undergraduate Research Symposium, St. Louis MO, October 2011

**Jasmine Kwasa**, Susan Chen, Sukhi Basati, Andreas Linninger, “Computer Modeling the Hydrocephalic Brain” Poster presentation at 2009 International Students Science Fair in Singapore, Malaysia, April 2009

## Teaching

### Boston University Teaching Fellowships

CN 560: Perception and Quantitative Physiology of the Auditory System	Spring 2017
BE 401: Signals and Systems in Biomedical Engineering (studio format) Fall 2016	
BE 401: Signals and Systems in Biomedical Engineering (lecture format) Fall 2015	

### Washington University Teaching Assistantships

BME 123B: Engineering Virtual Studio I	Spring 2013
BME 124B: Engineering Virtual Studio II	Fall 2013

### Training Courses Taken

An Introduction to Evidence-based Undergraduate STEM Teaching	Fall 2015
Advancing Learning through Evidence-based STEM Teaching	Spring 2016

## Service

• Founder and President – Underrepresented Graduate Student Organization @ BU	2016-Present
• Illinois Math and Science Academy Alumni Association Board member	2017-Present
• Chair of QBP Fellowship Alumni Dinner Committee	2016-Present
• National Director– E <sup>3</sup> Women in STEM High School Mentoring Program	2015-2018
• Chair of Outreach Programs– BU BME Graduate Student Committee	2014-2015
• Founder, President, Violin teacher – WU Orchestrating Diversity music program	2010-2014
• Pre-college Initiative Chair – WU National Society of Black Engineers (NSBE)	2011-2013

## Honors and Awards

- 2018 MIT IMPACT Program Fellow
- 2018 Barbara Jordan Graduate Student Award Nominee, BU Black Student Union
- 2017 U.S. Delegate to the International Science of Learning Conference (NSF)
- 2017 Travel award winner, Advanced Perspectives in Auditory Neuroscience meeting
- 2017 Neuroscience Scholars Program Fellow (Society for Neuroscience)
- 2016 Teaching as Research Fellow (Center for the Integration of Teaching, Research, Learning)
- 2015 National Science Foundation Graduate Research Fellowship Program (NSF)
- 2015 Ford Foundation Pre-Doctoral Fellowship (National Academies of Science, Eng., and Medicine)
- 2014 Quantitative Biology and Physiology (QBP) Fellowship (National Institutes of Health)
- 2013 Frankie Muse Freeman Community Service Prize (WU)
- 2013 New Faces in Engineering College Edition Winner (DiscoverE)
- 2011 Undergraduate Student Training in Academic Research Fellowship (National Institutes of Health)
- 2009 WU Summer Scholar in Biology and Biomedical Research (Howard Hughes Medical Institute)
- 2009 John B. Ervin Full Tuition Scholarship (WU)
- 2009 James McKelvey Engineering Research Scholarship (WU)

## Memberships

American Association for the Advancement of Science (AAAS)  
Institute of Electrical and Electronics Engineers (IEEE)  
National Society of Black Engineers (NSBE)  
Society for Neuroscience (SfN)