

Stephanie Cheung

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Research Interests

- paediatric rehabilitation; music-supported rehabilitation; interactive computer play; auditory neuroscience.

Education

Doctoral Student (Biomedical Engineering & Collaborative Program in Neuroscience) **Toronto, ON**
University of Toronto *Sept, 2015 - present*

Dissertation: Movement through Music: Video Games for Music-Supported Motor Rehabilitation.

Supervisors: Dr. Elaine A. Biddiss and Dr. Joyce L. Chen.

Master's of Applied Science (Electrical & Computer Engineering) **Hamilton, ON**
McMaster University *Sept, 2012 – Sept, 2014*

Thesis: Modelling the Neural Representation of Interaural Level Differences for Linked and Unlinked Bilateral Hearing Aids.

Supervisor: Dr. Ian C. Bruce.

Bachelor of Engineering (Electrical & Biomedical Engineering) **Hamilton, ON**
McMaster University *Sept, 2008 – April, 2012*

Capstone: "MACBot": A Robotic Toy for Children with Autism Spectrum Disorders.

Thesis: A Comparison of Wavelet and Short-Time Fourier Transform Techniques for Analysis of Auditory Cortex Beta-Band Activity.

Supervisors: Dr. Hubert de Bruin; Dr. Laurel Trainor; Dr. Takako Fujioka

Associate of The Royal Conservatory of Music (Piano Performance), First Class Honours **Toronto, ON**
The Royal Conservatory of Music *Conferred Jan, 2009*

Studied with Tanya Tkachenko and Boris Zarankin.

Awards & Scholarships

2016: Holland Bloorview Spotlight Award

2015 – present: Wildcat Graduate Scholarship

2014: Certificate of Excellence for Outstanding Thesis

2014: International Hearing Aid Research Conference Student Scholarship

2011: Ward Family Summer Student Scholarship

2008: The General Motors Entrance Scholarship

Research Experience

Research Assistant **Toronto, ON**
PEARL Lab, Bloorview Research Institute *Nov, 2014 – Aug, 2015*

Ward Family Research Summer Student **Toronto, ON**
PEARL Lab, Bloorview Research Institute *May, 2011 – Aug, 2011*

Research Assistant (Volunteer) & Database Developer **Hamilton, ON**
Infant Studies Group & McMaster Institute for Music and the Mind *May, 2010 – Jan, 2011*

Teaching & Supervising

Supervisor, PEARL Lab volunteers and summer student
PEARL Lab, Bloorview Research Institute

Toronto, ON
Dec, 2015 – present

Teaching Assistant, “Cellular Bioelectricity”
Dept. of Electrical & Computer Engineering, McMaster University

Hamilton, ON
Jan, 2013 – April, 2014

Teaching Assistant, “Structure of Biological Materials”
Dept. of Electrical & Computer Engineering, McMaster University

Hamilton, ON
Sept, 2012 – Dec, 2013

Manuscripts

Cheung, S.T.*, Han, E.*, Kushki, A., Anagnostou, E., & Biddiss, E. (Under review) “Biomusic: An auditory interface for detecting physiological indicators of anxiety in children.” (*joint first author, equal contribution)

Invited Talks

Cheung, S.T. (Feb, 2016). “Merging music and technology for paediatric rehabilitation.” at *Science of Music Seminar Series, Vanderbilt University, Nashville, TN.*

Contributed Conference Presentations

Cheung, S.T. (March, 2016). “MusicMaster: Movement through Music” at *CP-NET Workshop 2016, Toronto, ON.*

Cheung, S.T. & Bruce, I.C. (May, 2015). “Can auditory brainstem and midbrain processing of interaural level difference cues really explain perceptual performance?” at *169th Meeting of the Acoustical Society of America, Pittsburgh, PA.*

Cheung, S.T. & Bruce, I.C. (Aug, 2014). “Modeling the neural representation of interaural level differences for linked and unlinked bilateral hearing aids.” at *International Hearing Aid Research Conference, Lake Tahoe, CA.*

Academic Service

Co-Chair
Bloorview Research Institute Trainee Executive

Toronto, ON
Sept, 2016 – present

Program Co-Director
Collaborative Program in Neuroscience Joint Undergraduate Mentorship Program

Toronto, ON
Feb, 2016 – present

Events Chair
Bloorview Research Institute Trainee Executive

Toronto, ON
October, 2015 – present

Public Engagement & Outreach

Co-Founder
All About Kids Research (<http://www.allaboutkidsresearch.ca>)

Toronto, ON
Jan, 2016 – present

Memberships

- Society for Music Perception and Cognition (student member)
- Canadian Partnership for Stroke Recovery National Trainee Association
- NeuroDevNet (associate trainee)

Last updated May 26th, 2016.