

**TSZ MAN VANESSA CHAN, PHD**

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## ACADEMIC APPOINTMENT

**Assistant Teaching Professor**, Department of Psychology, University of Notre Dame **August 2020 – present**  
Spring 2022: Introduction to Cognitive Neuroscience, Music in the Brain, Auditory Cognition  
Concurrent Faculty, First Year of Studies with the Moreau First Year Experience seminar  
Appointed to the Neuroscience and Behavior program.  
Please refer to teaching dossier for further details and evaluation.

## EDUCATION

**Doctor of Philosophy (Psychology)**, University of Toronto & Rotman Research Institute, Baycrest **2015-2020**  
Thesis: Dynamics of auditory reflective attention in speech-in-noise perception  
Supervisor: Prof. Claude Alain

**Master of Arts (Psychology)**, University of Toronto & Rotman Research Institute, Baycrest **2014-2015**  
Thesis: Auditory Perception and Executive Functions in Simultaneous Interpreters  
Supervisor: Prof. Claude Alain

**Bachelor of Science (Major Neuroscience)**, McGill University **2010-2014**  
Minor Supplementary East Asian Language (Japanese)

## TEACHING-RELATED EXPERIENCE

**Course Instructor**, Summer Scholars Pre-College, University of Notre Dame **June 2022 – July 2022**  
Designed and taught 2-week summer experiential learning in cognitive neuroscience.

**Course Instructor**, Department of Psychology, University of Toronto **January 2019 – April 2020**  
Course: Cognitive Neuroscience, Winter 2019 and Winter 2020.  
Overall evaluation 3.91/5; historical course average 3.88/5  
Please refer to teaching dossier for further details.

**Instructional Resource Designer**, Department of Psychology, University of Toronto **July 2019 – December 2019**  
Consultant for design of writing assignments to develop critical reading skills.

**Teaching Assistant**, Department of Psychology, University of Toronto **September 2014 June 2020**  
Courses: Introduction to Psychology, Statistics I, Learning & Plasticity, Physiological Psychology, Music Cognition. Please refer to teaching dossier for further details.

**Advanced University Teaching Preparation Certificate Program** **March 2015 – February 2017**  
Teaching Assistant Training Program, University of Toronto

## RESEARCH EXPERIENCE

**Visiting Graduate Student**, Cognitive Brain Research Unit, University of Helsinki, Finland **May 2016 – December 2016**

**Undergraduate Researcher**, Neuropsychopharmacology Lab, McGill University, Canada **May 2012 – May 2014**  
Supervisor: Prof. Paul Clarke. Independent Research Project conducted Fall 2013.

## ACADEMIC PUBLICATIONS

*Journal Articles*

**Chan, T.M.V.**, Buchsbaum, B. R., & Alain, C. (2022). Effects of temporal order and intentionality on reflective attention to words in noise. *Psychological Research*, 86(2), 544-557. <https://doi.org/10.1007/s00426-021-01494-6>

Putkinen, V., Saarikivi, K., **Chan, T.M.V.**, & Tervaniemi, M. (2021). Faster maturation of selective attention in musically trained children and adolescents: converging behavioral and ERP evidence. *European Journal of Neuroscience*, 54(1), 4246-4257. <https://doi.org/10.1111/ejn.15262>

**Chan, T.M.V.**, & Alain, C. (2020). Brain indices associated with semantic cues prior to and after a word in noise. *Brain Research*, 1751, 147206. <https://doi.org/10.1016/j.brainres.2020.147206>

Satanove, D.J., Rahman, S., **Chan, T.M.V.**, Ren, S., & Clarke, P.B.S. (2020) Nicotine-induced enhancement of a sensory reinforcer in adult rats: antagonist pretreatment effects. *Psychopharmacology*. <https://doi.org/10.1007/s00213-020-05696-5>

**Chan, T.M.V.**, & Alain, C. (2019). Listening back in time: Does attention to memory facilitate word in noise identification? *Attention, Perception, & Psychophysics*, 81(1), 253-269. <https://doi.org/10.3758/s13414-018-1586-8>

Alain, C., Cusimano, M., Garami, L., Backer, K., Habelt, B., **Chan, V.**, & Hasher, L. (2018) Age-related differences in orienting attention to sound object representations. *Neurobiology of Aging* 66, 1-11. <https://doi.org/10.1016/j.neurobiolaging.2018.01.026>

#### Articles in Progress

Saarikivi, K., **Chan, T.M.V.**, Huotilainen, M., Tervaniemi, M., & Putkinen, V. (submitted) Augmented neural mechanisms of set shifting in musically trained adolescents and young adults: converging fMRI, EEG, and behavioral evidence.

Branco, R. C., & **Chan, T.M.V.** (in preparation) Implementation and assessment of cross-course harmonized assignments.

#### Invited Book Chapter

**Chan, T.M.V.**, & Alain, C. (2020). Theories of cognitive aging: A look at potential benefits of music training on the aging brain. In L. Cuddy, S. Belleville, & A. Moussard (Eds.) *Music and the Aging Brain*. Elsevier.

#### Teaching Resources

Wood, S., & **Chan, V.** (2020). Sequential assignments to critically evaluate psychological journal articles. Society for the Teaching of Psychology website. <https://teachpsych.org/resources/Documents/otrp/resources/wood20.pdf>

### CONFERENCE PRESENTATIONS

#### Oral Presentations

**Chan, T.M.V.**, & Branco, R. C. Implementation and assessment of cross-course harmonized assignments. *Neuroscience Teaching Conference*, Winston-Salem, NC, 2022.

Alain, C., & **Chan, T.M.V.** Orienting attention to speech representation improves word in noise identification. *Society for Psychophysiological Research Annual Meeting*, Quebec City, 2018.

#### Poster Presentations

**Chan, T.M.V.** Reawakening desire: student-centered educational practice as fostering humanity. *Society of Catholic Scientists Annual Meeting*, Notre Dame, USA, 2019.

**Chan, T.M.V.**, & Alain, C. Neural indices of auditory reflective attention in word-in-noise identification. *Society for Neuroscience Annual Meeting*, San Diego, USA, 2018.

**Chan, T.M.V.**, Saarikivi, K., Tervaniemi, M., & Putkinen, V. **Cortical mechanisms of auditory change detection in musically trained and untrained adolescents**. *Neurosciences and Music VI – Music, Sound and Health*, Boston, USA, 2017.

**Chan, T.M.V.**, & Alain, C. Listening back in time: Does attention to memory facilitate word in noise identification? *Erasmus Mundus Auditory Cognitive Neuroscience Symposium*, Leipzig, Germany, 2017.

**Chan, V.T.M.**, & Alain, C. Auditory perception and executive functions in simultaneous interpreters: re-examining the music-language relationship. *Cognitive Neuroscience Society Annual Meeting*, New York, USA, 2016.

**Chan, V.T.M.**, & Alain, C. Auditory perception and executive functions in simultaneous interpreters. *BRAMS: The next ten years – symposium*, Montreal, Canada, 2015.

### AWARDS AND ACCOMPLISHMENTS

#### Scholarships and Fellowships

NSERC Canada Graduate Scholarship – Master's (\$17500, national)

**September 2015 – August 2016**

NSERC Undergraduate Student Research Award (\$5625, national)

**May 2013 – August 2013**

FRSQ Undergraduate Student Research Award (\$5750, provincial)

**May 2012 – August 2012**

McGill University J.W. McConnell Scholarship (\$9000, university)

**September 2010 – April 2013**

#### Conference and Travel Grants

School of Graduate Studies Conference Grant, University of Toronto (\$600)

**June 2017**

Faculty of Arts & Science Graduate Student Conference Travel Grant, University of Toronto (\$400)

**June 2017**

Erasmus Mundus Auditory Cognitive Neuroscience Mobility Fellowship (€14600)

**May 2016 – December 2016**

### PROFESSIONAL AND COMMUNITY SERVICE

**Faculty Mentor**, Building Bridges Mentorship Program, University of Notre Dame

**August 2021 – present**

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|--|--------------------------------|
| <b>Faculty Advisor</b> , Mending Minds, University of Notre Dame   | <b>January 2021 – present</b>  |
| <b>Planning Committee</b> , Young Singles Community for Faculty and Staff, University of Notre Dame                    | <b>January 2021 – present</b>  |
| <b>Committee Member</b> , Neuroscience and Behavior Steering Committee   | <b>August 2020 – present</b>   |
| <b>Search Committee Member</b> , Neuroscience and Behavior Hiring Search   | <b>Fall 2021</b>               |
| <b>Workshop Presenter</b> , Rotman Research Institute, Baycrest<br>Topic: Introduction to Electroencephalography (EEG) | <b>February 2019</b>           |
| <b>Academic Rounds Coordinator</b> , Rotman Research Institute, Baycrest   | <b>July 2018 – August 2019</b> |
| <b>Ad hoc reviewer</b><br>Attention, Perception, and Psychophysics; PLOS ONE   |                                |

#### PROFESSIONAL ACTIVITIES & COMMUNITY ENGAGEMENT

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|--|-----------------------------------|
| <b>Panelist</b> , Psychology Graduate Teaching Network Job Session, University of Toronto<br>Presentation and Q&A on teaching faculty job market and experience          | <b>December 2021</b>              |
| <b>Presenter</b> , Provost's Learning Lightning Talks, University of Notre Dame<br>Presentation: Implementing a one-time grace period policy                             | <b>September 2021</b>             |
| <b>Workshop Participant</b> , Civic Hope workshop series, University of Notre Dame<br>Conversation series around dialogue between the arts and sciences in the community | <b>April 2021 – May 2021</b>      |
| <b>Presenter</b> , Crush Imposter Syndrome Initiative, University of Toronto<br>Presentation: Experience of imposter syndrome and strategies for mitigation              | <b>March 2021</b>                 |
| <b>NeuroBRITE Mentor &amp; Coordinator</b> , Rotman Research Institute, Baycrest<br>Designing curriculum for high school neuroscience outreach                           | <b>April 2018 – February 2020</b> |
| <b>Volunteer</b> , Let's Talk Science (University of Toronto)<br>Classroom visits to elementary schools with science kits  | <b>2018-2020</b>                  |
| <b>Lecturer, Brain &amp; Cognition Lecture Series</b> , Rotman Research Institute, Baycrest<br>Topic: Music & Speech Cognition   | <b>May 2018</b>                   |
| <b>Scientific Communication Officer</b> , Rotman Research Institute, Baycrest<br>Lay abstract translation and live-tweet of the annual RRI Conference                    | <b>March 2018</b>                 |
| <b>Logistics Coordinator</b> , University of Toronto Science Rendezvous 2015-2018  | <b>Winter-Spring 2015-2018</b>    |

#### PROFESSIONAL MEMBERSHIP

Faculty for Undergraduate Neuroscience  
 Society for Teaching of Psychology (APA Div. 2)  
 Society for Neuroscience  
 Society for Catholic Scientists