

ANGELA COOPER  
UNIVERSITY OF TORONTO, DEPARTMENT OF PSYCHOLOGY

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## PROFESSIONAL EXPERIENCE

2016 - present *Postdoctoral Fellow*  
Department of Psychology, University of Toronto, Mississauga  
Sponsored by Elizabeth Johnson

## EDUCATION

2011 - 2016 **Northwestern University**  
Ph.D. in Linguistics  
Specialization in Cognitive Science  
Thesis: *Perceptual learning of accented speech by first and second language listeners*  
Committee: Ann R. Bradlow (chair), Matt Goldrick, Nina Kraus

Summer 2012 **University of Wisconsin-Madison**  
Southeast Asian Studies Institute (SEASSI)  
Intensive Thai language course

2008 - 2010 **Simon Fraser University**  
M.A. in Linguistics  
Thesis: *Effects of linguistic and musical experience on Cantonese tone word learning*  
Committee: Yue Wang (senior supervisor), Murray Munro, Dean Mellow, Valter Ciocca (external examiner)

2003 - 2007 **Simon Fraser University**  
B.A. in Linguistics (extended minor, English)

## RESEARCH INTERESTS

*Broad:* Speech perception; Phonetics; Phonology; First and second language acquisition; Perceptual learning; Music and language

*Specific:* Perceptual adaptation mechanisms; influence of variability and linguistic experience on perceptual learning; indexical and extralinguistic effects on speech processing

## PUBLICATIONS

### *Journal Articles*

**Cooper, A.** and Ann R. Bradlow. (2018). Exposure-driven phonetic adjustments by first and second language listeners. *Journal of Phonetics*, 68, 32-49.

**Cooper, A.**, Natalie Fecher, and Elizabeth K. Johnson. (2018). Toddlers' comprehension of adult and child talkers: adult targets versus vocal tract similarity. *Cognition*, 173, 16-20.

- Cooper, A.** and Ann R. Bradlow. (2017). Talker and background noise specificity in spoken word recognition memory. *Laboratory Phonology*, 8(1): 29, 1-15.
- Cooper, A.**, Yue Wang, and Richard Ashley. (2017). Thai rate-varied vowel length perception and the impact of musical experience. *Language and Speech*, 60(1), 65-84.
- Cooper, A.** and Ann R. Bradlow. (2016). Linguistically guided adaptation to foreign-accented speech. *The Journal of the Acoustical Society of America*, 140(5), EL378-384.
- Cooper, A.**, Susanne Brouwer, and Ann R. Bradlow. (2015). Interdependent processing and encoding of speech and concurrent background noise. *Attention, Perception & Psychophysics*, 77(4), 1342-1357.
- Cooper, A.** and Yue Wang. (2013). Effects of tone training on Cantonese tone-word learning. *The Journal of the Acoustical Society of America*, 134(2), EL133-EL139.
- Cooper, A.** and Yue Wang. (2012). The influence of linguistic and musical experience on Cantonese tone word learning. *The Journal of the Acoustical Society of America*, 131(6), 4756-4769.

### **Manuscripts**

- Cooper, A.**, Melissa Paquette-Smith, and Elizabeth K. Johnson. (in prep). The effects of live interaction on children's adaptation to accented speech.
- Cooper, A.**, Dawn Behne, and Yue Wang. (under revision). Effects of semantic information and segmental familiarity on learning lexical tone.

### **Conference Proceedings**

- Cooper, A.**, Yue Wang, and Richard Ashley. (2015). Effects of musical experience on Thai rate-varied vowel length perception. In The Scottish Consortium for ICPHS 2015 (Ed.), *Proceedings of the 18th International Congress of Phonetic Sciences*, Glasgow, UK: University of Glasgow. Paper number 0627, 1-5.
- Bradlow, A. R. and **Angela Cooper**. (2015). Rapid adaptation to target and background talker variation in speech-in-speech perception. In The Scottish Consortium for ICPHS 2015 (Ed.), *Proceedings of the 18th International Congress of Phonetic Sciences*, Glasgow, UK: University of Glasgow. Paper number 0641, 1-5.
- Cooper, A.** and Yue Wang. (2011). Effects of linguistic experience and tone training on Cantonese tone word learning. *Proceedings of the Psycholinguistic Representation of Tone Conference*, Hong Kong, 1-4.
- Wang, Y., Yang Zhang, **Angela Cooper**, and Mathieu Dovan. (2011). Effects of training on the processing of speech and non-speech tone: An event-related potential study. *Proceedings of the Psycholinguistic Representation of Tone Conference*, Hong Kong, 1-4.
- Cooper, A.** and Yue Wang. (2011). The influence of tonal awareness and musical experience on tone word learning. In Wai-Sum Lee and Eric Zee (Eds.), *Proceedings of the 17th International Congress of Phonetic Sciences*, 512-515.
- Wang, Y., **Angela Cooper**, Xianghua Wu, and Dawn Behne. (2011). Effect of semantic context on the perceptual learning of lexical tone. In Wai-Sum Lee and Eric Zee (Eds.), *Proceedings of the 17th International Congress of Phonetic Sciences*, 2098-2101.
- Zhang, Y., **Angela Cooper**, and Yue Wang. (2010). Processing of speech and non-speech tonal information by native and nonnative tone language speakers: an event-related electrophysiological study. *Proceedings of the Annual Conference of the Canadian Acoustical*

*Association*, Victoria, October 13-15.

**Cooper, A.** and Yue Wang. (2010). Cantonese tone word learning by tone and non-tone language speakers. In Takao Kobayashi, Keikichi Hirose, and Satoshi Nakamura (Eds.), *INTERSPEECH-2010*, Makuhari, Japan: International Speech Communication Association, 1840-1843.

**Cooper, A.** and Yue Wang. (2010). The role of musical experience in Cantonese lexical tone perception by native speakers of Thai. *Proceedings of the 5<sup>th</sup> International Conference on Speech Prosody*, Chicago, May 11-14.

## CONFERENCE PRESENTATIONS

- 2018 **Cooper, A.** and Elizabeth K. Johnson. Phonetic similarity between mothers and their children. Poster to be presented at the *59<sup>th</sup> Annual Meeting of the Psychonomic Society*, New Orleans, November 15-18.
- 2018 **Cooper, A.**, Ann R. Bradlow, and Yue Wang. Acoustic-phonetic consequences of clear speech in Cantonese vowels and lexical tones. Poster to be presented at the *176<sup>th</sup> Meeting of the Acoustical Society of America*, Victoria, November 5-9.
- 2018 Fecher, N., **Angela Cooper**, and Elizabeth K. Johnson. Distinguishing Dick from Jane: Children's voices are more difficult to identify than adults' voices. Poster to be presented at the *176<sup>th</sup> Meeting of the Acoustical Society of America*, Victoria, November 5-9.
- 2018 Paquette-Smith, M., **Angela Cooper**, and Elizabeth K. Johnson. Accent adaptation in the real world: Infants learn from live exposure. Paper presented at the *21<sup>st</sup> International Congress on Infant Studies*, Philadelphia, June 30-July 3.
- 2018 Johnson, E.K., and **Angela Cooper**. Is there a word recognition advantage for toddlers routinely exposed to multiple accents? Poster presented at *Laboratory Phonology 16*, Lisbon, June 19-22.
- 2018 **Cooper, A.**, Caterina Bordignon and Elizabeth K. Johnson. The effects of accent distance on perceptual adaptation in toddlers and adults. Poster presented at *Laboratory Phonology 16*, Lisbon, June 19-22.
- 2017 **Cooper, A.**, Natalie Fecher and Elizabeth K. Johnson. My voice or your voice: Talker age and familiarity effects on spoken word recognition in toddlers and adults. Poster presented at the 58th Annual Meeting of the Psychonomic Society, Vancouver, November 9-11.
- 2017 **Cooper, A.**, Melissa Paquette-Smith, Keren Smith, Chen Peng, and Elizabeth K. Johnson. Does live interaction facilitate accent adaptation by 16- to 24-month-old infants? Poster presented at the 3rd Workshop on Infant Language Development, Bilbao, June 15-17.
- 2017 **Cooper, A.** Natalie Fecher and Elizabeth K. Johnson. 2.5-year-olds show no own-voice advantage: Implications for the nature of children's early lexical representations. Poster presented at the 3rd Workshop on Infant Language Development, Bilbao, June 15-17.
- 2016 **Cooper, A.** and Ann R. Bradlow. Perceptual learning of accented speech by first and second language listeners. Poster presented at the 57<sup>th</sup> Annual Meeting of the

- Psychonomic Society, Boston, November 17-20.
- 2015 **Cooper, A.** and Ann R. Bradlow. Linguistically-guided perceptual adaptation to foreign-accented speech. Poster presented at the 56<sup>th</sup> Annual Meeting of the Psychonomic Society, Chicago, November 19-22.
- 2015 **Cooper, A.**, Yue Wang, and Richard Ashley. The impact of musical experience on the perception of rate-varied vowel length in Thai. Oral presentation at the Meeting of the Society for Music Perception & Cognition (SMPC 2015), Nashville, August 1-5.
- 2014 **Cooper, A.** and Ann R. Bradlow. Lexical Feedback and Perceptual Learning of Foreign-Accented Speech. Oral presentation at the 55<sup>th</sup> Annual Meeting of the Psychonomic Society, Long Beach, November 20-23.
- 2014 **Cooper, A.** and Ann R. Bradlow. Effects of talker and noise variation on recognition memory for spoken words. Poster presented at Architecture and Mechanisms of Language Processing (AMLaP 2014), Edinburgh, September 3-6.
- 2014 **Cooper, A.**, Susanne Brouwer, and Ann R. Bradlow. Interdependent processing of speech and background noise. Poster presented at 167<sup>th</sup> Meeting of the Acoustical Society of America, Providence, May 5-9.
- 2013 **Cooper, A.** and Ann R. Bradlow. Talker familiarity effects on speech-in-speech perception. Poster presented at 166<sup>th</sup> Meeting of the Acoustical Society of America, San Francisco, December 2-6.
- 2013 **Cooper, A.**, Susanne Brouwer, and Ann R. Bradlow. Perceptual integration of speech and background noise. Poster presented at Architecture and Mechanisms of Language Processing (AMLaP 2013), Marseille, September 2-4.
- 2012 Wang, Y., Yang Zhang, **Angela Cooper**, and Mathieu Dovan. Effects of musical and linguistic experience on the processing of speech and non-speech pitch: an event-related electrophysiological study. Poster presented at 19<sup>th</sup> Annual Cognitive Neuroscience Meeting, Chicago, IL, March 31-April 3.
- 2011 **Cooper, A.**, Michael Blasingame, and David Potter. Communicatively- and prosodically-driven hyper-articulation in English. Oral presentation at the 17<sup>th</sup> Mid-Continental Conference on Phonetics and Phonology, Urbana-Champaign, IL, October 21-23.
- 2009 **Cooper, A.** and Yue Wang. Effects of linguistic and musical experience on non-native perception of Thai vowel duration. Poster presented at the 2<sup>nd</sup> Acoustical Society of America Workshop on Speech: Cross-language speech perception and variations in linguistic experience, Portland, May 22-23.
- 2008 Wang, Y., Dawn Behne, **Angela Cooper**, and Jung-Yueh Tu. Domain-specific processing of Mandarin tone. Poster presented at 157<sup>th</sup> Meeting of the Acoustical Society of America, Portland, May 18-22.
- 2008 Wang, Y., Dawn Behne, **Angela Cooper**, Haisheng Jiang, Nina Leung, and Jung-Yueh Tu. Effects of auditory, visual and audio-visual training on nonnative perception of English fricatives. Poster presented at Acoustics 2008, Paris, Jun. 29-Jul. 4.
- 2008 Wang, Y., Dawn Behne, **Angela Cooper**, Haisheng Jiang, Nina Leung, and Jung-Yueh Tu. Effects of training modality on audio-visual perception of place of articulation and voicing in nonnative speech. Oral presentation at the Annual

Conference of the Canadian Acoustical Association, Vancouver, Oct. 6-8.

## INVITED TALKS

- 2018 **Cooper, A.** Diversity and adversity in speech perception. Presentation to the Department of Linguistics, McMaster University, April 24.
- 2018 **Cooper, A.** Variation and adaptation in speech perception across development. Presentation to the Department of Linguistics, University of British Columbia, Feb. 15.
- 2018 **Cooper, A.** Diversity and adversity in speech perception. Presentation to the Department of Linguistics, University of British Columbia, Feb. 14.
- 2018 **Cooper, A.** Perceptual experience and adaptation in speech perception for second language learners. Presentation to the Department of Linguistics, Montclair State University, Feb. 9.
- 2017 **Cooper, A.** Variation and adaptation in speech perception. Presentation to the Department of Linguistics, University of Alberta, Feb. 9.
- 2016 **Cooper, A.** Word recognition for own versus unfamiliar voices in toddlers and adults. Presentation at the Psychology Brown Bag, University of Toronto, Nov. 28.
- 2015 **Cooper, A.** and Ann R. Bradlow. Linguistically-guided perceptual learning of accented speech. Presentation to the Speech Recognition in Adverse Conditions Group, Radboud University, Nov. 19.

## AWARDS & HONOURS

2011 – 2015	\$80,000	Social Sciences and Humanities Research Council Doctoral Fellowship
2015	\$3000	Northwestern University Graduate Research Grant
2015	\$800	Northwestern University TGS Conference Travel Grant
2015	\$300	Northwestern University Cognitive Science Travel Grant
2013	\$700	Northwestern University TGS Conference Travel Grant
2013	\$300	Northwestern University Cognitive Science Travel Grant
2012	\$1,500	Southeast Asian Studies Institute Tuition Scholarship
2009 - 2010	\$17,500	Social Sciences and Humanities Research Council Joseph-Armand Bombardier Canada Graduate Scholarship (Master's)
2009	\$6,250	Simon Fraser University Graduate Fellowship
2009	\$2,500	Simon Fraser University Graduate International Research Travel Award
2008 – 2009	\$10,000	Pacific Century Graduate Scholarship
2008 – 2009	\$9,000	Special Graduate Entrance Scholarship
2007	\$4,500	NSERC Undergraduate Student Research Award

2004 – 2007	\$10,500	Simon Fraser University Open Scholarship
2003	\$3,500	The British Columbia Secondary School Summit Entrance Scholarship
2012		Nominee for the Usha Maha Jani Award for excellence in language study, SEASSI, University of Wisconsin-Madison
2010		Dean of Graduate Studies Convocation Medal
2007		Outstanding Academic Achievement Award, Linguistics Department, Simon Fraser University
2004 – 2007		Undergraduate Honour Roll, Simon Fraser University

## TEACHING EXPERIENCE

Winter 2015	<b>Seminar in Linguistics: Second Language Speech Processing and Learning</b> Teaching Assistant, Department of Linguistics, Northwestern University  Co-taught with Ann Bradlow. Assisted in: <ul style="list-style-type: none"> <li>• Course design and development</li> <li>• Lectures and discussion</li> <li>• Grading</li> </ul>
Spring 2010	<b>Introduction to Phonetics and Phonology</b> Tutor Marker, Department of Linguistics, Simon Fraser University
Fall 2009	<b>Introduction to the Description of English Grammar</b>  <b>Introduction to Phonetics and Phonology</b> Tutor Marker, Department of Linguistics, Simon Fraser University
Spring 2009	<b>Language &amp; Communication</b> Tutor Marker, Department of Linguistics, Simon Fraser University
Fall 2008	<b>Phonetics</b> Tutor Marker, Department of Linguistics, Simon Fraser University

## MENTORSHIP & ADMINISTRATIVE EXPERIENCE

2016 – present	Child Language and Speech Studies Lab Research Co-Supervisor, Department of Psychology, University of Toronto <i>Principal Investigator: Elizabeth Johnson</i> <ul style="list-style-type: none"> <li>• Train and co-supervise undergraduate research assistants in stimulus creation, data collection and processing</li> <li>• Discuss ongoing research and related research with students</li> </ul>
2013 – 2015	Capstone Program Committee Member (for 1 student), Department of Communication Sciences & Disorders, Northwestern University
2007 – 2010	Language and Brain Lab Lab Manager, Department of Linguistics, Simon Fraser University <i>Principal Investigator: Yue Wang</i> <ul style="list-style-type: none"> <li>• Trained and co-supervised undergraduate research assistants in stimulus</li> </ul>

- creation, behavioural and EEG data collection and analysis
- Co-ordinated lab protocol and project documentation

## SERVICE

2014 - present	Ad-hoc Reviewer <i>Attention, Perception &amp; Psychophysics</i> <i>Bilingualism: Language &amp; Cognition</i> <i>Child Development</i> <i>Cognition</i> <i>Developmental Psychology</i> <i>Frontiers in Psychology</i> <i>Infancy</i> <i>Journal of Experimental Psychology: Human Perception and Performance</i> <i>Journal of Memory and Language</i> <i>Journal of Speech, Language, and Hearing Research</i> <i>Language Learning</i> <i>Language Learning and Development</i> <i>Language and Speech</i> <i>Neuropsychologia</i> <i>Phonetica</i> <i>The Journal of the Acoustical Society of America</i>
2015 – 2016	Graduate Student Representative, Northwestern University
2012 – 2015	Web Coordinator, Northwestern University
2011 – 2012	Linguistics Colloquium Committee, Northwestern University
2009 – 2010	Website Committee, SFU Linguistics Graduate Student Association
2010	Organizing Committee, 26 <sup>th</sup> Northwest Linguistics Conference

## SKILLS

### Languages

English (native); Thai (intermediate); French (basic); German (basic reading)  
Research experience with Mandarin and Cantonese

### Experimental Techniques

*Adult*: Behavioural (both online and in-lab) and EEG (128-channel EGI system) data collection  
*Child*: Preferential looking/Eye-tracking; Word elicitation task; Forced-choice identification task

### Software

*Experiment*: E-Prime, Superlab  
*Stimulus creation*: Praat, Audacity, iMovie, Photoshop  
*Analysis*: SuperCoder, R, SPSS, Microsoft Excel