

Curriculum Vitae

XIN XIE

DEPARTMENT OF BRAIN AND COGNITIVE SCIENCES
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RESEARCH INTERESTS

Speech perception and production, perceptual learning, spoken word recognition, native and non-native speech communication, language plasticity, neural correlates of spoken language processing, computational modeling, language acquisition, talker identification, bilingualism

EDUCATION

- 2009-2015 Ph.D. in Experimental Psychology, University of Connecticut
Advisors: Emily Myers and Carol Fowler
Dissertation: “Phonetic adaptation to foreign-accented speech”
Committee: Emily Myers (chair), Carol Fowler, Jim Magnuson, Rachel Theodore
- 2005-2009 B.S.E. in Systems Science and Engineering, Zhejiang University, China

RESEARCH POSITIONS

- 2016-present Postdoctoral Associate. University of Rochester, Department of Brain and Cognitive Sciences. PI: Florian Jaeger.
- 2015-2016 Postdoctoral Researcher. University of Connecticut, Department of Speech, Language and Hearing Sciences. PI: Emily Myers.

PEER-REVIEWED PUBLICATIONS

- Xie, X.** & Myers, E. B. (under review). LIFG sensitivity to phonetic competition in receptive language processing: a comparison of clear and conversational speech.
- Xie, X.**, & Myers, E. B. (under review). Learning a talker or learning an accent: Acoustic similarity constrains generalization of foreign accent adaptation to new talkers.
- Xie, X.**, Earle, F. S. & Myers, E. B. (under review). Sleep facilitates generalization of accent adaptation to a new talker.

- Xie, X.**, Theodore, R.M., & Myers, E. B. (2017). [More than a boundary shift: perceptual adaptation to foreign-accented speech reshapes internal structure of phonetic categories.](#) *Journal of Experimental Psychology: Human Perception and Performance*, *43*, 206-217.
- Xie, X.** & Myers, E. B. (2015). [The impact of musical training and tone language experience on talker identification.](#) *Journal of the Acoustical Society of America*, *137*, 419-432.
- Xie, X.**, & Myers, E. B. (2015). [General language ability predicts talker identification.](#) In Noelle, D. C., Dale, R., Warlaumont, A. S., Yoshimi, J., Matlock, T., Jennings, C. D., & Maglio, P. P. (Eds.), *Proceedings of the 37th Annual Meeting of the Cognitive Science Society*, (pp. 2697-2702). Austin, TX: Cognitive Science Society.
- Xie, X.** & Fowler, C. A. (2013). [Listening with a foreign-accent: The interlanguage speech intelligibility benefit in Mandarin speakers of English.](#) *Journal of Phonetics*, *41*, 369-378.

OTHER PUBLICATIONS

- Fowler, C. A., & **Xie, X.** (2016). Involvement of the speech motor system in speech perception. In P. van Lieshout, B. Maassen, and H. Terband (Eds.). *Speech motor control in normal and disordered speech: Future developments in theory and methodology* (pp. 1-24). Rockville, MD: ASHA Press.
- Myers, E., Johns, A.R., Earle, F.S., and **Xie, X.** (2017). Myers, E., Johns, A.R., Earle, F.S., and Xie, X. (in press). The Invariance Problem in the Acquisition of Non-Native Phonetic Contrasts: From Instances to Categories. In Lahiri, A. and S. Kotzor (Eds.). *The Speech Processing Lexicon: Neurocognitive and Behavioural Approaches* (pp. 52-84). Berlin: De Gruyter/Mouton.

MANUSCRIPTS IN PREPARATION

- Xie, X.**, & Myers, E. B. (in preparation). Consistency matters: Effects of within-talker acoustic variability on rapid learning of foreign accents.
- Xie, X.**, & Myers, E. B. (in preparation). Contextual information aids perceptual adaptation to speakers of low intelligibility.
- Xie, X.**, Myers, E. B., Magnuson, J. S., Mencl, W. E., Irwin, J. R., Brancazio, L., & Rueckl, J. (in preparation). Encoding articulator information in the brain during speech perception.

CONFERENCE PRESENTATIONS

- Xie, X.**, Myers, E. B. (December, 2016). Sleep facilitates talker generalization of accent adaptation. Poster presented at *The 172nd Annual Meeting of the Acoustical Society of America*. Honolulu, HI.
- Xie, X.**, Myers, E. B. (March, 2016). Learning a talker or learning an accent? Cross-talker generalization of phonetic adjustment to foreign-accented speech. Poster presented at *The 29th Annual CUNY Conference on Human Sentence Processing*. Gainesville, FL.

- Xie, X.,** Theodore, R. M., Myers, E. B. (November, 2015). Perceptual adaptation to foreign-accented speech reshapes the internal structure of phonetic categories. Poster presented at *The 56th Annual Meeting of the Psychonomic Society*. Chicago, IL.
- Xie, X.,** & Myers, E. B. (July, 2015). General language ability predicts talker identification. Poster presented at *The 37th Annual Meeting of the Cognitive Science Society*. Pasadena, CA.
- Xie, X.** & Myers, E. B. (November, 2014). Individual differences in talker identification: Do musical experience and linguistic background matter? Poster presented at *The 55th Annual Meeting of the Psychonomic Society*. Long beach, CA.
- Xie, X.** & Myers, E. B. (September, 2013). The role of language and musical experience in talker identification: investigating language familiarity effect. Poster presented at *The 19th International Conference of Architectures and Mechanisms for Language Processing (AMLaP, 2013)*. Marseille, France.
- Xie, X.** & Fowler, C. A. (July, 2013). Listening with a foreign-accent: The interlanguage speech intelligibility benefit in Mandarin speakers of English. Poster presented at *Linguistic Society of America, Summer Institute 2013 Workshop: How the brain accommodates variability in linguistic representations*. Ann Arbor, MI.

INVITED TALKS

The adaptive road to robust speech recognition: How do we accommodate phonetic variation in speech? *Department of Linguistics, University of California, Davis. January 2017.*

Encoding articulator information in the brain during speech perception. *Alvin and Isabelle Liberman Memorial Workshop, University of Connecticut, June 2016.*

Phonetic adaptation to foreign accents. *Department of Speech, Language and Hearing Sciences, Boston University, December 2015.*

Phonetic adaptation to foreign accents. *Bilingualism and Psycholinguistics Research Group, Northwestern University, October 2015.*

HONORS & AWARDS

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| 2015 | Psychonomic Society Graduate Student Travel Award, Psychonomic Society |
| 2014 | Doctoral Dissertation Fellowship: Graduate School, University of Connecticut |
| 2013 | Conference Travel Grant: Graduate School, University of Connecticut |
| 2013 | Student Travel Award: LSA 13 workshop “ <i>How the brain accommodates variability in linguistic representations</i> ” |
| 2009-2015 | Graduate Scholarship: Department of Psychology, University of Connecticut |
| 2009 | Award for Excellence in Undergraduate Thesis, Zhejiang University |

TEACHING EXPERIENCE

- 2012-2016 Research Mentor, 12 Undergraduates**
Mentored undergraduate students who were research assistants and/or completing honors theses. Taught experimental design, acoustic analysis techniques, and other aspects of training in conducting research
- Spring 2015 Coordinator, Language & Cognition Seminar**
Coordinated seminar talks
- Spring 2015 Teaching Assistant, Psychology of Language**
Held office hours, graded exams, papers and assignments
- Spring 2014 Instructor of Record, Psychology of Language**
Gave lectures (~50 students), designed course materials, wrote and graded exams
- 2010-2013 Lab Instructor, Principles of Research in Psychology**
Gave weekly lectures (~12-14 students), mentored group research projects, held office hours, graded papers and assignments, assisted student poster presentation at a department-level research event
- 2009-2010 Lab Instructor, General Psychology I**
Gave weekly lectures (~20-25 students), held office hours, wrote/graded assignments
- Fall 2009 Teaching Assistant, General Psychology I; Cognitive Psychology**
Graded exams and assignments, prepared materials for online mini-experiments

PROFESSIONAL SERVICE & MEMBERSHIPS

Ad hoc reviewer: *Journal of Experimental Psychology: Human Perception and Performance*, *Journal of the Acoustical Society of America*, *Journal of Speech, Language and Hearing Research*, *Linguistics Vanguard*, *The Quarterly Journal of Experimental Psychology*, *Cognition*, *Laboratory Phonology*, *Cognitive Science Society Annual Conference*

Membership: *Acoustical Society of America*; *Association for Laboratory Phonology*; *Psychonomic Society*; *International Speech Communication Association*; *Women in Cognitive Science*

LANGUAGES

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| Mandarin | Native |
| English | Proficient |
| Cantonese | Proficient |
| Japanese | Intermediate |
| Spanish | Basic vocabulary |
| French | Basic vocabulary |

PROGRAMMING

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| PRAAT (Acoustic analysis) |
| SPSS |
| R |
| MATLAB |
| Python |

REFERENCES

1) Florian Jaeger, Ph.D.

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2) Emily Myers, Ph.D.

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3) Carol Fowler, Ph.D.

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4) Rachel Theodore, Ph.D.

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