

# Alexander L. Francis

## Curriculum Vitae

Summer, 2020

### Work

Speech, Language & Hearing Sciences  
Purdue University  
Lyles-Porter Hall  
715 Clinic Drive  
West Lafayette, IN 47907  
USA  
phone +1 765 494 3815  
fax +1 765 494 0771  
francisa@purdue.edu

### EDUCATION

Ph.D. in Linguistics and in Psychology (with Distinction), The University of Chicago, 1999  
Dissertation Title: “Perceptual Learning, Attention, and Phonetic Categorization”  
Committee: Howard C. Nusbaum, Karen L. Landahl (co-supervisors), David McNeill,  
Terry Regier, Janellen Huttenlocher (reader)  
M.A. in Linguistics, The University of Chicago, June, 1993  
B.A. in Linguistics (with Honors), University of Illinois at Urbana-Champaign, 1991

### ACADEMIC EMPLOYMENT

Associate Professor, Dept. of Speech, Language & Hearing Sciences, Purdue University, August  
2008–present  
Assistant Professor, Dept. of Speech, Language & Hearing Sciences, Purdue University, August  
2002–2008  
Post-doctoral Fellow, Dept. of Speech and Hearing, University of Hong Kong, August, 1999–  
July, 2002  
Research Assistant (Part-time), Dept. of Psychology, University of Chicago, 1995–1999  
Graduate Research Assistant, C-3 Group (Computer Research and Applications), Los Alamos  
National Laboratories, Summer 1993

### HONORS AND AWARDS

Appointed Fellow of the Acoustical Society of America, 2020  
Fellowship for Study in a Second Discipline (Psychophysiology), Purdue University, August  
2014-May 2015  
Student Paper Award (Speech Communication), 136th meeting of the Acoustical Society of  
America, Norfolk VA, 1998  
Dewey Lecture Fellowship, Social Sciences Collegiate Division, The University of Chicago,  
1998-1999

## FUNDED RESEARCH

*Spring 2020 CEREBBRAL Pilot Grant Funding.* PI. Center for Research on Brain, Behavior, and Neurorehabilitation. \$5000. July 1, 2020-June 30, 2021.

*NIH New R01 Program Award: Does effortful listening induce physiological stress?* PI (with Dongjuan Xu, Shirley Rietdyk, Melissa Newell, Jeff Haddad). Purdue University Office of Research and Partnerships and Office of the Provost. \$29,928. December 1, 2015-June 30, 2017.

*Provost's Fellowship for Study in a Second Discipline: Psychophysiology of Listening Effort.* PI. Purdue University. \$7,000. August 15, 2014 – May 15, 2015.

*Do older adults attend to speech differently than younger adults?* PI (with Joshua Alexander). Kinley Foundation Trust. \$20,000. May 1, 2012 – July 31, 2013.

*Effects of neurocognitive training on regional patterns of brain metabolism in older adults with hearing impairment.* PI. Indiana Clinical and Translational Sciences Institute. Pilot funding for use of core facilities. \$9,600. January 1, 2010-December 31, 2011.

*Selective Attention and Perceptual Learning of Speech.* NIH R03DC006811. National Institutes of Health, National Institute on Deafness and Other Communication Disorders (NIH NIDCD), June 1, 2004 – November 30, 2008, \$150,000.

*Electrophysiological indices of perceptual restoration of filtered and noise-masked vowels.* Co-PI (with Ravi Krishnan). Purdue University Research Incentive Award, September 2004 – August 2005, \$1000.

*The role of tonal context in the learning of lexical tone categories by speakers of tonal and nontonal languages.* Co-PI (with Valter Ciocca). Hong Kong Research Grants Council, January 2004 – December, 2005. HK \$707,000 (approx. US \$90,640).

*Effects of linguistic experience on attention to tones.* Co-PI (with V. Ciocca and L. Ma). Hong Kong University Research Grants Committee Seed Funding for Basic Research, February 2001 – March, 2002. HK \$120,000 (approx. US \$15,000).

## PUBLICATIONS

### REFEREED JOURNAL ARTICLES

Lory, C., Kadlaskar, G., Keehn, R. M., Francis, A. L., & Keehn, B. (2020). Brief Report: Reduced heart rate variability in children with autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 1-8.

Francis, A.L. & Love, J. (2020). Listening Effort: Are we measuring cognition, affect, or both? Invited review article, *WIREs Cognitive Science*. e1514.

- Xu, D., & Francis, A.L. (2019) Psychological distress mediates the relationship between hearing impairment and cardiovascular disease. *Journal of Speech, Language and Hearing Research*; 62(8), 2872-2881.
- Keehn, B., Kadlaskar, G., McNally Keehn, R., & Francis, A.L. (2019). Auditory attentional disengagement in children with autism spectrum disorder. *Journal of Autism and Developmental Disorders*. Available online June, 4 2019.
- Law, W. L., Dmitrieva, O., & Francis, A. L. (19). Language attitudes modulate phonetic convergence and divergence in bilingual speakers in diglossic settings. *Linguistic Approaches to Bilingualism*. Available online October 4, 2019.
- Francis, A.L., & Oliver, J. (2018). Psychophysiological measurement of affective responses during speech perception. *Hearing Research*, 369, 103-119.
- Francis, A.L., Tigchelaar, L.J. Zhang, R., & Zekveld, A. (2018). Effects of second language proficiency and linguistic uncertainty on recognition of speech in native and non-native competing speech. *Journal of Speech, Language and Hearing Research*, 61(7), 1815-1830.
- Strauss, D.J. & Francis, A.L. (2017). Toward a taxonomic model of attention in listening effort. *Cognitive, Affective, & Behavioral Neuroscience*, 17(4), 809-825.
- Francis, A.L., MacPherson, M.K., Chandrasekaran, B., & Alvar, A.M. (2016). Autonomic nervous system responses during perception of masked speech may reflect constructs other than subjective listening effort. *Frontiers in Psychology: Cognitive Hearing Mechanisms of Language Understanding: Short- and Long-term Perspectives*, 7(263), 1-15.
- Llanos, F. & Francis, A.L. (2016). The effects of language experience and speech context on the phonetic accommodation of English-accented Spanish voicing. *Language & Speech*, 60(1), 3-26.
- Dmitrieva, O., Llanos, F., Shultz, A.A., & Francis, A.L. (2015). Phonological status, not voice onset time, determines the acoustic realization of onset f0 as a secondary voicing cue in Spanish and English. *Journal of Phonetics*, 49, 77-95.
- Lin, M. & Francis, A.L. (2014). Effects of language experience and expectations on attention to consonants and tones in English and Mandarin Chinese. *Journal of the Acoustical Society of America*, 136(5), 2827-2838.
- Llanos, F., Dmitrieva, O., Shultz, A.A., & Francis, A.L. (2013). Auditory enhancement and second language experience in Spanish and English weighting of secondary voicing cues. *Journal of the Acoustical Society of America*, 134(3), 2213-2224.
- Roberts, F. & Francis, A.L. (2013). Identifying a temporal threshold of tolerance for silent gaps after requests. *Journal of the Acoustical Society of America*, 133(6), EL471-EL477.

- Shultz, A.A., Francis, A.L., & Llanos, F. (2012). Differential cue weighting in perception and production of consonant voicing. *Journal of the Acoustical Society of America*, 132(2), EL95-EL101.
- Cristià, A., McGuire, G., Seidl, A., & Francis, A. (2011). Effects of the distribution of cues on infants' perception of speech sounds. *Journal of Phonetics*, 39, 388-402.
- Kondaurova, M.V. & Francis, A.L. (2010). The role of selective attention in the acquisition of English tense and lax vowels by native Spanish listeners: Comparison of three training methods. *Journal of Phonetics*, 38(4), 569-587.
- Zhang, Y. & Francis, A.L. (2010). The weighting of vowel quality in native and non-native listeners' perception of English lexical stress. *Journal of Phonetics*, 38(2), 260-271.
- Francis, A.L. (2010). Improved segregation of simultaneous talkers differentially affects perceptual and cognitive capacity demands for recognizing speech in competing speech. *Attention, Perception and Psychophysics*, 72(2), 501-516.
- Francis, A.L., & Nusbaum, H.C. (2009). Effects of intelligibility on working memory demand for speech perception. *Attention, Perception and Psychophysics*, 71(6), 1360-1374.
- Finneran, D., Francis, A.L., & Leonard, L. (2009). Sustained attention in preschool-age children with specific language impairment. *Journal of Speech, Language and Hearing Research*, 52, 915-929.
- Kondaurova, M.V., & Francis, A.L. (2008). The relationship between native allophonic experience with vowel duration and perception of the English tense/lax vowel contrast by Spanish and Russian listeners. *Journal of the Acoustical Society of America*, 124(6), 3959-3971.
- Francis, A.L., Kaganovich, N., & Driscoll-Huber, C.J. (2008). Cue-specific effects of categorization training on the relative weighting of acoustic cues to consonant voicing in English. *Journal of the Acoustical Society of America*, 124 (2), 1234-1251.
- Zhang, Y., Nissen, S.L., & Francis, A.L. (2008). Acoustic characteristics of English lexical stress produced by native Mandarin speakers. *Journal of the Acoustical Society of America*, 123(6), 4498-4513.
- Francis, A.L., Ciocca, V., Ma, L., & Fenn, K. (2008). Perceptual learning of Cantonese lexical tones by tone and non-tone language speakers. *Journal of Phonetics*, 36, 268-294.
- Tong, Y., Francis, A.L. & Gandour, J.T. (2007). Perceptual processing dependencies between segmental and suprasegmental features of a tone language. *Language and Cognitive Processes*, 23(5), 689-708.

- Francis, A.L., Nusbaum, H.C., & Fenn, K. (2007). Effects of training on the acoustic phonetic representation of synthetic speech. *Journal of Speech, Language and Hearing Research*, 50(6), 1445-1465.
- Francis, A.L., Ciocca, V., Wong, V.K.M., & Chan, J.K.L. (2006). Is fundamental frequency a cue to aspiration in initial stops? *Journal of the Acoustical Society of America*, 120(5), 2884-2896.
- Kaganovich, N., Francis, A.L., & Melara, R.D. (2006). Electrophysiological evidence for early interaction between talker and linguistic information during speech perception. *Brain Research*, 1114, 161-172.
- Francis, A.L., & Driscoll, C.J. (2006). Training to use voice onset time as a cue to talker identification induces a left ear/right hemisphere processing advantage. *Brain and Language*, 98, 310-318.
- Xu, Y., Gandour, J.T., & Francis, A.L. (2006). Effects of language experience and stimulus complexity on the categorical perception of pitch direction. *Journal of the Acoustical Society of America*, 120(2), 1063-1074.
- Roberts, F., Francis, A.L., & Morgan, M. (2006). The interaction of inter-turn silence with prosodic cues in listener perception of 'trouble' in conversation. *Speech Communication*, 48, 1079-1093.
- Francis, A.L., Ciocca, V.C., Wong, N.K.U., Leung, W.H.Y., & Chu, P.C.Y. (2006). Extrinsic context affects perceptual normalization of lexical tone. *Journal of the Acoustical Society of America*, 119(3), 1712-1726.
- Francis, A.L., Ciocca, V.C., & Ng, B.K.C. (2003). On the (non)categorical perception of lexical tones. *Perception & Psychophysics*, 65(6), 1029-1044.
- Francis, A.L. & Ciocca, V. (2003). Stimulus presentation order and the perception of lexical tones in Cantonese. *Journal of the Acoustical Society of America*, 114(3), 1611-1621.
- Francis, A.L., & Ho, D.W.L. (2003). Acquisition of three spoken languages by a child with a cochlear implant. *Cochlear Implants International*, 4(1), 31-47.
- Francis, A.L., Ciocca, V., & Yu, J.M.C. (2003). Accuracy and variability of acoustic measures of voicing onset. *Journal of the Acoustical Society of America*, 113(2), 1025-1032.
- Whitehill, T.L., Francis, A.L., & Ching, C. K.-Y. (2003). Perception of stop placement by children with cleft palate and posterior placement. *Journal of Speech, Language & Hearing Research*, 46, 451-461.
- Ciocca, V., Francis, A.L., Aisha, R., & Wong, L. (2002). The perception of Cantonese lexical tones by prelingually deaf cochlear implantees. *Journal of the Acoustical Society of America*, 111(5), 2250-2256.

Francis, A.L., & Nusbaum, H. C. (2002). Selective attention and the acquisition of new phonetic categories. *Journal of Experimental Psychology: Human Perception and Performance*, 28(2), 349–366.

Francis, A. L., Baldwin, K., & Nusbaum, H. C. (2000). Effects of training on attention to acoustic cues. *Perception and Psychophysics*, 62(8), 1668-1680.

Francis, A. L., & Nusbaum, H. C. (1999). The effect of lexical complexity on intelligibility. *International Journal of Speech Technology*, 3, 15-25.

Nusbaum, H. C., Francis, A. L., & Henly, A.S. (1995). Measuring the naturalness of synthetic speech. *International Journal of Speech Technology*, 1, 7-19.

### BOOK CHAPTERS

Cristià, A., Seidl, A., and Francis, A. (2011). Phonological features in infancy. In G. N. Clements and R. Ridouane (Eds.), *Where do features come from? The nature and sources of phonological primitives* (pp. 306-326). Elsevier.

Francis, A. L., & Nusbaum, H. C. (1999). Evaluating the Quality of Synthetic Speech. In D. Gardner-Bonneau (Ed.), *Human Factors and Voice Interactive Systems* (pp. 63-97). Boston: Kluwer Academic Publishers.

### CONFERENCE PROCEEDINGS

Schneider, E.N., Bernarding, C., Francis, A.L., Hornsby, B.W., & Strauss, D.J. (2019). A quantitative model of listening related fatigue. *9th International IEEE EMBS Conference on Neural Engineering (NER)*, 619-622.

Love, J. Sollman, L., Niehl, A., & Francis, A.L. (2019). Physiological orienting response, noise sensitivity, and annoyance from irrelevant background sound. *Proceedings of Meetings on Acoustics*, 35(1), 040002.

Kondaurova M.V., & Francis A.L., (2008). Training to ignore vs. training to attend while learning a foreign phonetic contrast. *Proceedings from the Annual Meeting of the Chicago Linguistic Society*, 44 (1), 169-177. Chicago Linguistic Society.

Ciocca, V., Rani, A., Francis, A., & Wong, L. (2000). Can Cantonese children with cochlear implants perceive lexical tones?" *Proceedings of the 6<sup>th</sup> International Conference on Speech and Language Processing*. Beijing, China.

Nusbaum, H. C., Francis, A. L., & Luks, T. L. (1997). Speech Perception: A Special Mechanism or a Specialized Cognitive Process? In K. Singer, R. Eggert, and G. Anderson (Eds.), *Proceedings of the 33rd Regional Meeting of the Chicago Linguistic Society (CLS 33)*, vol. 2, *The Parasession on Phonetics* (pp. 415-434). Chicago: Chicago Linguistic Society. 1997.

Francis, A. L., & Nusbaum, H. C. (1996). Paying attention to speaking rate. *Proceedings: International Conference on Speech and Language Processing (ICSLP) '96*, vol. 3, SaA2L2.

## REVIEWS

Francis, A. L. (1998). *Voice Recognition* by Richard L. Klevans and Robert D. Rodman. *International Journal of Speech Technology*, 2:3, 249-253.

Francis, A. L., & Jones, E. (1996). Phonetics and phonological theory. *Language and Communication*, 16, 381-391.

Francis, A. L. (1994). Parser 1.0: An elementary parsing program for the DOS environment. *Computers and the Humanities*, 27, 406-409.

## INVITED PRESENTATIONS

Francis, A.L. (2019). Listening Effort: How it affects your Patients' Lives and How to Measure it. Talk invited as part of a research topic: *The relationship between speech signal complexity and listening effort*. Nov. 21-23, Orlando, FL.

Francis, A.L. (2019). Using physiological measures to assess distraction and annoyance from background noise. Invited talk presented at the *5th International Conference on Cognitive Hearing Science for Communication*, Linköping, Sweden, June 9-12, 2019.

Oliver, J., Sollmann, L., Niehl, A., & Francis, A.L. (2018). Do orienting responses predict annoyance from irrelevant sounds? Invited talk presented by Jordan Oliver at the *176th Meeting of the Acoustical Society of America*, Victoria, British Columbia, Canada. November 5-9, 2018.

“Using psychophysiological measures to assess affective response to communication challenges across the lifespan.” Invited talk presented at the *7th International and Interdisciplinary Research Conference on Aging and Speech Communication*. University of South Florida, Tampa FL, November 5-8<sup>th</sup>, 2017.

“Listening effort: Phenomenology, psychology, physiology and application.” Invited talk presented at the University of Connecticut and Haskins Labs, March 2 & 3, 2017.

“Psychophysiological measures associated with listening effort.” Talk presented at the *5th Ear Day at Rush University*, Chicago, IL, January 27, 2017.

“Effects of age and hearing impairment on the perceptual weighting of acoustic cues.” Alexander L. Francis & Joshua Alexander. Talk presented at the *2nd Annual Rush Ear Day*, Chicago, IL, October 25, 2013.

“Some factors that probably affect acoustic cue weighting in speech perception.” Talk presented at the *7th Annual Meeting of the Auditory Cognitive Neuroscience Society*, Tucson, AZ, January 3-5, 2013.

“Some effects of real and simulated cognitive and auditory aging on speech perception.” Talk presented at the *6th Annual Meeting of the Auditory Cognitive Neuroscience Society*, Tucson, AZ, January 3-6, 2012.

“How does spatial separation of sound sources interact with cognitive capacity limitations on speech perception?” Talk presented at the *5<sup>th</sup> Annual Meeting of the Auditory Cognitive Neuroscience Society*, Tucson, AZ, January 6-7, 2011.

“Perceptual learning of non-native speech sounds: The importance of features from an attention to dimensions perspective.” Talk presented at the *158<sup>th</sup> Meeting of the Acoustical Society of America*, San Antonio, TX, October 29, 2009.

“The role(s) of capacity limitations in speech perception.” Talk presented at the *157<sup>th</sup> Meeting of the Acoustical Society of America*, Portland, OR, May 19, 2009.

“Studies on the role of attention in speech perception: From perceptual learning to training attention.” Talk presented at the *DeVault Otologic Research Laboratory Colloquium of the Indiana University School of Medicine*, Indianapolis, IN, February 11, 2009.

“Features, not phonemes: Implications of studies of perceptual learning for L2 acquisition.” Alexander L. Francis, Talk presented at the *Indiana University Linguistics Colloquium*, April 11, 2008.

“Should we pay attention to attention?” Talk presented at the *2<sup>nd</sup> Annual Meeting of the Auditory Cognitive Science Society*, Tucson AZ, January 11-12, 2008.

“On babies and bathwater in the motor theory ‘debate’: The importance of active theories of perception.” Rebuttal/discussion presented at the *2<sup>nd</sup> Annual Meeting of the Auditory Cognitive Science Society*, Tucson AZ, January 11-12, 2008.

“What is attention, and what is it doing in speech perception?” Talk presented at the *154<sup>th</sup> Meeting of the Acoustical Society of America*, New Orleans, LA, November 27-30, 2007.

“Is the part greater than the whole? Experience, attention and the role of features in phonetic learning.” Talk presented to the *Department of Linguistics*, University of Illinois at Urbana-Champaign, Urbana, IL, November, 2006.

“Some experiments on the perception of lexical tones in Cantonese.” Talk presented to the *Department of Linguistics*, Northwestern University, Evanston, IL, February, 2004.

“Lexical tone and cochlear implants: Basic issues, preliminary results, and future directions.” Alexander L. Francis & Valter Ciocca. Talk presented at the *DeVault Otologic Research Laboratory Colloquium of the Indiana University School of Medicine*, Indianapolis, IN, July, 2003.

#### **CONFERENCE PRESENTATIONS (Past 5 Years)**

Xu, D. & **Francis, A.L.** (2019). Relationships among Self-reported Hearing Problems, Psychological Distress, and Cardiovascular Disease in US Adults, National Health Interview Survey 1997-2017. Paper presented by Dongjuan Xu at the Mental Health program of the APHA's 2019 Annual Meeting and Expo (Nov. 2 - Nov. 6, 2019), Philadelphia, PA.



Love, J. Sollmann, L., Niehl, A., & Francis, A.L. (2019). Does noise sensitivity or attentional capacity predict cardiovascular responses to distracting sound? Talk presented at the *177th Meeting of the Acoustical Society of America*, May 13-17, 2019, Louisville, KY.

Francis, A.L., Alabed, D., Mues, S., Herbig, M.-C., & Boutin, M. (2018). Identifying affective responses in individual blood volume pulse data. Poster presented at the *58th Annual Meeting of the Society for Psychophysiological Research (SPR)*, October 3-7 2018, Quebec City, Quebec, Canada.

Oliver, J.N., Sung, W., Davies, P. & Francis, A.L. (2018). Psychophysiological responses during cognitively demanding work in subjectively annoying background noise. Talk presented by Jordan Oliver at the *175th Meeting of the Acoustical Society of America*, May 7-11, 2018, Minneapolis, MN.

Francis, A.L., Schumaker, J., Bent, T., Zhang, R., & Oliver, J. (2017). Individual differences predicting autonomic responses associated with listening effort. Poster presented at the *57th Annual Meeting, Society for Psychophysiological Research*, 11-15 October, 2017, Vienna, Austria.

Francis, A.L., Schumaker, J., Bent, T., & Zhang, R. (2017). Psychophysiological indices of listening effort due to noise masking and nonnative-accent. Poster presented at the *173rd Meeting of the Acoustical Society of America*, Boston, MA, June 25-29, 2017.

Abu-Zhaya, R., Tonnsen, B., Francis, A., Seidl, A. (2017). Infants' physiological responses to cross-modal touch+speech input. Poster presented by Rana Abu-Zhaya at the *Workshop on Infant Language Development*, Bilbao, Spain, June 2017.

Law, W. L. & Francis, A.L. (2016). Degree of bilingualism modulates interaction between L1 and L2 in code-switching. Paper presented by Wai Ling Law at the *8th International Symposium on the Acquisition of Second Language Speech*, Aarhus, Denmark, June, 2016.

Francis, A.L., Schumacher, J., & Zhang, R. (2016). Psychophysiological responses to listening to speech in intermittent noise. Poster presented at the *171st Meeting of the Acoustical Society of America*, Salt Lake City, UT, May 23-27, 2016.

Zekveld, A., Tigchelaar, L.J. & Francis, A.L. (2015). A little knowledge is a dangerous thing: Foreign language proficiency increases susceptibility to interference from that language. Poster presented by Adriana Zekveld at the *Third International Conference on Cognitive Hearing Science for Communication*, Linköping, Sweden, June 14-17, 2015.

Law, W.L. & Francis, A.L. (2015). Phonetic divergence in bilingual speakers is modulated by language attitude. Poster presented by Wai Ling Law at the *170th Meeting of the Acoustical Society of America*, Jacksonville, FL, November 2-6, 2015.

Law, W. L. & Francis, A. L. (2015). Common Phonetic Space of L1 and L2 Suprasegmentals: The Case of Speech Rhythm and Tonality in Cantonese-English Bilinguals. Talk presented by Wai Ling Law at the *20th meeting of the Mid-Continental Phonetics & Phonology Conference*,

Indiana University, Bloomington, IN, September 11-13, 2015.

Lin, M. & Francis, A.L. (2015). The effect of pausing on listening effort and the intelligibility and acceptability of L2 English. Poster presented by Mengxi Lin at the *2015 Conference of the American Association for Applied Linguistics*, Toronto, Ontario, Canada, March 21-24, 2015.

### OTHER PUBLICATIONS

Francis, A.L.\* & Xu, D. (2019). The Hearing Loss, Psychological Distress, and Cardiovascular Disease Connection. *Hearing Journal*, November 2019. Volume 72, Issue 11, p 18, 20

*Tcl/Tk for Dummies*. Tim Webster with Alex Francis, IDG Press, 1997.

### TEACHING EXPERIENCE

*Purdue University*

#### PhD Supervisor

Danielle Reindl (LING), Left Purdue in 2015; returning 2020-2021

Jordan Love (nee Oliver) (SLHS)

Wai Ling Christie Law: *The effects of social and experiential factors on the interactions between the phonetic systems of diglossic bilinguals* (Linguistics, awarded August, 2017)

Fernando Llanos Lucas: *The role of experience in processing foreign-accented speech* (SLC, with Bob Hammond: Spanish, awarded August, 2016)

Mengxi Lin: *The relationship between acoustic features of second language speech and listener evaluation of speech quality*. (Linguistics, awarded August, 2015)

Wei Grace Zhang: *Quantifying Fricatives and Affricates in Chinese-Accented English*. (Linguistics, awarded December, 2010)

Yanhong Zhang: *English lexical stress production and perception by native Mandarin speakers* (Linguistics, awarded, May 2008)

Maria Kondaurova: *Training to ignore vs. training to attend: An investigation of the interaction between native language experience and training methods in the acquisition of a foreign phonetic contrast* (Linguistics, awarded, December 2008)

Natalya Kaganovich: *Interaction between talker's voice, linguistic information, and attention during speech perception*. (Linguistics, awarded, August 2007)

Evidence-based Practice Project supervisor: Allison Reitz (co-supervised with Melissa Newell; 2020), Meghan Mauntler (2020)

Audiology Doctoral Research Supervision: Katie Connell (primary, 2010-2011), Kelly Rich (primary, 2010-2011), Caitlin Rinehart (primary, 2011-2012), Kelsie Johnson (primary, 2011-12), Diana True (secondary, 2011-2012), Alyson Gearhart (primary, 2013-2014)

Master's Thesis Supervisor: Maria Kondaurova (Linguistics, M.A., 2004), Courtney Driscoll (SLHS, M.Sc., 2005), Amanda A. Shultz (Linguistics, M.A., 2011)

Dean's Scholar Supervisor: Ross Nelson (2009-2010), Leigh Anderson (2010-2011)

Lecturer: AUS 306/ LING 315 *Introduction to Phonetics* (Fall, 2002, Spring 2004, Fall, 2012-2013, Spring 2013, 2014); SLHS 302 *Acoustic Bases of Speech and Hearing* (Spring, 2003-2008; 2010-2014); AUS/SLHS 419A/519A/LING 598C *Honors Acoustics* (Spring, 2005, 2007, 2008), SLHS 502 *Speech Science* (Fall, 2003- 2008); SLHS 519A/511 *Aging and Communication* (Fall, 2009-2012); PSYC 520 *Attention and Performance* (Fall, 2010); SLHS 606 *Experimental Phonetics* (Spring 2003, 2006, 2011; Fall, 2008); SLHS 444, *Introduction To Research In Communication Sciences And Disorders* (Fall, 2011); AUS/SLHS & LING 490/590/498/598/698 *Supervised Reading Course (various topics)*

### *University of Hong Kong*

Dissertation Supervisor: Speech and Hearing Sciences B.Sc. program

PBL Tutor: Speech and Hearing Sciences problem-based learning curriculum

Lecturer: Speech & Hearing Sciences: *Master Class on Neurological Bases of Communication Disorders, Statistics Skills Labs*; Committee on Cognitive Science: *Introduction to Cognitive Science*; English Department: *American English*

### *University of Chicago*

Lecturer: Psychology Department: *Computers, Brains and Behavior*

Teaching Assistant: Psychology Department: *Connectionist Modeling; Speech Perception*; Linguistics Department: *Phonetics*

## PROFESSIONAL SERVICE

### *Acoustical Society of America (ASA)*

Representative to the AAAS Science and Human Rights Coalition (nominee, pending approval of ASA executive council) 2020 – present

Speech Communication Technical Committee Web Page Working Group, 2020-present

Panel on Public Policy, 2018-present

Technical Program Organizing Committee Representative, Speech Communication 2014-2016

Associate Editor (Speech Perception), *Journal of the Acoustical Society of America*, 2004-2005

Local Organizing Committee Member, 168<sup>th</sup> Meeting of the Acoustical Society of America, Indianapolis, IN, October 27-31, 2014

Organizer, Special Session on “The Role of Attention in Speech Perception,” 154<sup>th</sup> Meeting of the Acoustical Society of America, New Orleans, LA, November 27-December 1, 2007

### *American Speech Language Hearing Association (ASHA)*

Editor (Hearing), *Journal of Speech, Language & Hearing Research*, 2019-present

Editorial Board, *Journal of Speech, Language & Hearing Research*, 2018-2019

Ad hoc Action Editor (Speech), *Journal of Speech, Language & Hearing Research*

### *Other*

Associate Editor, *Language and Speech*, 2014-2017

Reviewer/Editorial Consultant (Journals): Frequently: *American Journal of Speech-Language Pathology, Attention, Perception & Psychophysics, Bilingualism: Language & Cognition, Brain and Language, Ear and Hearing, Hearing Research; Journal of the Acoustical Society of America, Journal of the Acoustical Society of America – Express Letters, Journal of Experimental Psychology: Human Perception and Performance, Journal of Memory and Language, Journal of Phonetics, Journal of Speech, Language & Hearing Research, Language & Speech, Second Language Research, Psychophysiology; Speech Communication* Occasionally: *Acta Psychologica, Applied Psycholinguistics, Cerebral Cortex, Cognition, Current Directions in Psychology, Journal of Communication Disorders, Language and Cognitive Processes, Mathematical Biosciences, PLoSOne, Psychological Bulletin*

Reviewer/Editorial Consultant (Grants): *American Speech, Language and Hearing Association, Natural Sciences and Engineering Research Council of Canada, Indiana Clinical and Translational Sciences Institute (CTSI), Social Science and Humanities Research Council of Canada; National Science Foundation; National Institutes of Health; Research Grants Council of Hong Kong; Israeli Science Foundation; Veteran's Administration; The Wellcome Trust;*

Reviewer/Editorial Consultant (Other): *Educational Testing Service (ETS)*

Symposium Committee, *Center on Aging and the Life Course*, 2009

Steering Committee Member, *Asia Pacific Society for the Study of Speech, Language, and Hearing*, 2001-2002

External Reviewer, Ph.D. Thesis Committee, University of Hong Kong, 2019; University of Canterbury, New Zealand, 2011

## DEPARTMENT, COLLEGE, AND UNIVERSITY SERVICE

### *Current*

Chair, University Senate Faculty Affairs Committee, 2020-2021

University Senate Library Committee, 2020-present

Susan Bulkeley Butler Center Working Papers Editorial Board Member, 2019-present

Purdue University Senate Faculty Affairs Committee Liaison to the Committee on Compensation and Benefits, 2019-present

AAUP Representative, Committee A (Academic Freedom and Tenure), 2018-present

SLHS Undergraduate Success Committee Chair, 2018-present

SLHS Graduate Admissions Committee (MS-SLP), 2017-present

Purdue University Senate, 2017-present

Purdue University Senate Faculty Affairs Committee, 2017-present

### *Past*

Purdue Clifford B. Kinley Trust Committee, 2014-2019

SLHS Department Head Search Committee, 2018

Purdue MLK Planning Committee, 2015-2017

HHS Career Advisory Council, 2016-2017

Purdue IRB Executive Committee, 2012-2014  
Purdue IRB Biomedical Review Committee, 2012-2014  
Purdue Center on Aging and the Life Course (CALC) Steering Committee, 2010-2012  
Purdue University Senate Committee for Student Excellence, 2009-2011  
Purdue University Working Group on Neurologic Disorders Advisory Group, 2009  
HHS Undergraduate Curriculum Committee representative for SLHS, 2014-216  
HHS Grade Appeals Committee, 2014-2015  
HHS Faculty Affairs Committee, SLHS Representative, 2011-2014  
HHS Representative, Faculty Advisory Committee to the IRB, 2011-2014  
HHS Interdisciplinary Programs Task Force, 2011-2012  
SLHS Brownbag Seminar Convener, 2016  
SLHS Undergraduate Committee Chair, 2014-2016  
SLHS Advisory Committee to the Head, 2009-2010, 2013-2014  
SLHS Undergraduate Website Committee Chair, 2012-2014  
SLHS Undergraduate Curriculum Committee member, 2012-2014  
SLHS ad hoc Committee on Studying Abroad, 2010-2011  
SLHS Graduate Committee member, 2003-2004; 2009-2012  
SLHS NSSLHA (Purdue Chapter) Faculty Advisor, 2007-2010  
SLHS Ombudsperson, 2005-2006  
SLHS College of Liberal Arts Honors Committee representative, 2004-2006, 2007-2010  
CLA Faculty Senate representative for SLHS, 2004-2007  
Program in Linguistics Policy Committee member, 2003-2005

## INTERDISCIPLINARY ACTIVITY

Faculty Associate, Center for Research on Brain, Behavior, and NeuroRehabilitation  
(CEREBBRAL), 2019-Present  
Faculty Associate, Center on Aging and the Life Course (CALC), 2008-Present  
Faculty Associate, Purdue Institute for Integrative Neuroscience, 2018-Present  
Department of Psychological Sciences, Courtesy Appointment, 2006-Present  
Linguistics Program Faculty Member, 2003-Present

## ASSOCIATION MEMBERSHIPS

Acoustical Society of America (ASA)  
American Association of University Professors (AAUP)  
American Speech, Language, and Hearing Association (ASHA) (without certification)  
Psychonomic Society (Full Member)  
Society for Psychophysiological Research (Full Member)

## REFERENCES

*Available on request*