

# CHRISTIAN E. STILP

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Lab: <http://louisville.edu/psychology/stilp/lab>

Last Updated: 5/17/18

## **EDUCATION**

- 2011 Ph.D. (Perceptual Psychology), University of Wisconsin, Madison, WI  
Minor: Computational Sensory Neuroscience  
Dissertation: "Efficient coding in perception of complex sounds"
- 2003 B.S. (Psychology), University of Wisconsin, Madison, WI

## **EMPLOYMENT**

- 2018-Present Associate Professor (with tenure)  
Director, Auditory Perception and Processing Laboratory  
Department of Psychological and Brain Sciences  
University of Louisville, Louisville, KY
- 2012-2018 Assistant Professor  
Director, Auditory Perception and Processing Laboratory  
Department of Psychological and Brain Sciences  
University of Louisville, Louisville, KY
- 2011-2012 Research Associate  
Natural Perception Laboratory, Principal Investigator: Michael Lewicki, Ph.D.  
Case Western Reserve University, Cleveland, OH
- 2004-2011 Graduate Research Assistant  
Wisconsin Speech Perception Laboratory, Principal Investigator: Keith Kluender, Ph.D.  
Infant Learning Laboratory, Principal Investigator: Jenny Saffran, Ph.D.  
University of Wisconsin, Madison, WI

## **HONORS AND AWARDS**

- 2015-2016, Faculty Favorite, University of Louisville Delphi Center for Teaching and Learning  
2014-2015
- 2011-Present Honorary Fellow, University of Wisconsin Department of Psychology
- 2011 Vilas Conference Presentation Award, University of Wisconsin Graduate School
- 2011/10/09/07 Travel Award, University of Wisconsin Department of Psychology
- 2011/10 Menzies and Royalty Research Award, University of Wisconsin Department of Psychology
- 2010 Honored Instructor Award, University of Wisconsin Division of University Housing
- 2009 Vilas Travel Grant, University of Wisconsin Graduate School
- 2008 Marian Schwartz Fellowship in Experimental Psychology, University of Wisconsin Department of Psychology
- 2003/01/00 Dean's List, University of Wisconsin

2002-2003 Mortar Board National College Senior Honor Society  
1999 University of Wisconsin Alumni Association Scholarship

**JOURNAL ARTICLES** (\* = supervised student author)

21. **Stilp, C.E.** & Assgari, A.A.\* (in press, 2018). Perceptual sensitivity to spectral properties in earlier sounds during speech categorization. *Attention, Perception, & Psychophysics*.
20. **Stilp, C.E.**, Kieft, M., & Kluender, K.R. (2018). Discovering acoustic structure of novel sounds. *Journal of the Acoustical Society of America*, 143(4), 2460-2473.
19. **Stilp, C.E.** (2017). Acoustic context alters vowel categorization in perception of noise-vocoded speech. *Journal of the Association for Research in Otolaryngology*, 18(3), 465-481.
18. **Stilp, C.E.**, & Assgari, A.A.\* (2017). Consonant categorization exhibits graded influence of surrounding spectral context. *Journal of the Acoustical Society of America*, 141(2), EL153-EL158.
17. Llanos, F., Alexander, J.M., **Stilp, C.E.**, & Kluender, K.R. (2017). Spectral entropy as an information-theoretic correlate of manner of articulation in American English. *Journal of the Acoustical Society of America*, 141(2), EL127-EL133.
16. **Stilp, C.E.**, Donaldson, G., Oh, S., & Kong, Y.-Y. (2016). Influences of noise-interruption and information-bearing acoustic changes on understanding simulated electric-acoustic speech. *Journal of the Acoustical Society of America*, 140(5), 3971-3979.
15. **Stilp, C.E.**, Anderson, P.W.\*, Assgari, A.A.\*, Ellis, G.M., & Zahorik, P. (2016). Speech perception adjusts to reliable spectrotemporal properties in the listening environment. *Hearing Research*, 341, 168-178.
14. **Stilp, C.E.**, & Kluender, K.R. (2016). Stimulus statistics change sounds from near-indiscriminable to hyperdiscriminable. *PLoS ONE* 11(8): e0161001. doi:10.1371/journal.pone.0161001
13. Assgari, A.A.\*, & **Stilp, C.E.** (2015). Talker information influences spectral contrast effects in speech categorization. *Journal of the Acoustical Society of America*, 138(5), 3023-3032.
12. **Stilp, C.E.**, Anderson, P.W.\*, & Winn, M.B. (2015). Predicting contrast effects following reliable spectral properties in speech perception. *Journal of the Acoustical Society of America*, 137(6), 3466-3476.
11. **Stilp, C.E.**, & Goupell, M.J. (2015). Spectral and temporal resolution of information-bearing acoustic changes for understanding vocoded sentences. *Journal of the Acoustical Society of America*, 137(2), 844-855.
10. **Stilp, C.E.**, & Anderson, P.W.\* (2014). Modest, reliable spectral peaks in preceding sounds influence vowel perception. *Journal of the Acoustical Society of America*, 136(5), EL383-EL389.
9. **Stilp, C.E.** (2014). Information-bearing acoustic change outperforms duration in predicting intelligibility of full-spectrum and noise-vocoded sentences. *Journal of the Acoustical Society of America*, 135(3), 1518-1529.
8. **Stilp, C.E.**, Goupell, M.J., & Kluender, K.R. (2013). Speech perception in simulated electric hearing exploits information-bearing acoustic change. *Journal of the Acoustical Society of America*, 133(2), EL136-EL141.
7. **Stilp, C.E.**, & Kluender, K.R. (2012). Efficient coding and statistically optimal weighting of covariance among acoustic attributes in novel sounds. *PLoS ONE* 7(1): e30845. doi:10.1371/journal.pone.0030845

6. **Stilp, C.E.**, & Kluender, K.R. (2011). Non-isomorphism in efficient coding of complex sound properties. *Journal of the Acoustical Society of America*, 130(5), EL352-EL357.
5. **Stilp, C.E.** (2011). The redundancy of phonemes in sentential context. *Journal of the Acoustical Society of America*, 130(5), EL323-EL328.
4. **Stilp, C.E.**, Rogers, T.T., & Kluender, K.R. (2010). Rapid efficient coding of correlated complex acoustic properties. *Proceedings of the National Academy of Science*, 107(50), 21914-21919.
3. **Stilp, C.E.**, Kiefte, M., Alexander, J.M., & Kluender, K.R. (2010). Cochlea-scaled spectral entropy predicts rate-invariant intelligibility of temporally distorted sentences. *Journal of the Acoustical Society of America*, 128(4), 2112-2126.
2. **Stilp, C.E.**, & Kluender, K.R. (2010). Cochlea-scaled spectral entropy, not consonants, vowels, or time, best predicts speech intelligibility. *Proceedings of the National Academy of Science*, 107(27), 12387-12392.
1. **Stilp, C.E.**, Alexander, J.M., Kiefte, M., & Kluender, K.R. (2010). Auditory color constancy: Calibration to reliable spectral properties across speech and nonspeech contexts and targets. *Attention, Perception & Psychophysics*, 72(2), 470-480.

#### **CHAPTERS**

3. Winn, M.B., & **Stilp, C.E.** (in press). "Phonetics and the auditory system." Chapter to appear in W. Katz & P. Assmann (Eds.) *The Routledge Handbook of Phonetics* (Routledge).
2. **Stilp, C.E.** (2017). "Speech". In: John Stein, J.S. (Ed.) *Reference Module in Neuroscience and Biobehavioral Psychology*, (Elsevier), pp. 1-13.
1. Kluender, K.R., **Stilp, C.E.**, & Kiefte, M. (2013). "Perception of vowel sounds within a biologically realistic model of efficient coding". In G. Morrison & P. Assmann (Eds.) *Vowel Inherent Spectral Change*, (Springer, Berlin), pp. 117-151.

#### **REFEREED PROCEEDINGS**

4. **Stilp, C.E.** & Alexander, J.M. (2016). Spectral contrast effects in vowel categorization by listeners with sensorineural hearing loss. *Proceedings of Meetings on Acoustics*, 26, 060003.
3. **Stilp, C.E.**, & Assgari, A.A.\* (2015). Languages across the world are efficiently coded by the auditory system. *Proceedings of Meetings on Acoustics*, 23, 060003.
2. **Stilp, C.E.**, & Lewicki, M.S. (2014). Statistical structure of speech sound classes is congruent with cochlear nucleus response properties. *Proceedings of Meetings on Acoustics*, 20, 050001.
1. Jiang, Y., **Stilp, C.E.**, & Kluender, K.R. (2013). Cochlea-scaled entropy predicts intelligibility of Mandarin Chinese sentences. *Proceedings of Meetings on Acoustics*, 18, 060006.

#### **MANUSCRIPTS UNDER REVIEW / IN PREPARATION (all data collected)**

Assgari, A.A. \*, Theodore, R.M., & **Stilp, C.E.** (under review). Differential effects of talker variability on context effects in speech perception. *Journal of the Acoustical Society of America*.

**Stilp, C.E.** & Assgari, A.A. \* (under review). Natural signal statistics shift speech sound categorization. *Attention, Perception, & Psychophysics*.

Frazier, J.M.\*, Assgari, A.A.\*, & **Stilp, C.E.** (in preparation). Musical instrument categorization is highly sensitive to spectral properties of earlier sounds.

**Stilp, C.E.** & Kluender, K.R. (in preparation). Learning multiple regularities in acoustic attributes of novel sounds.

Kiefte, M., **Stilp, C.E.**, & Kluender, K.R. (in preparation). Auditory stream segregation of desynchronized channels in speech perception.

#### **PUBLISHED ABSTRACTS (CONFERENCE PRESENTATIONS)**

46. Assgari, A.A.\* & **Stilp, C.E.** (2018, May). "Trial-to-trial variability in talkers' fundamental frequencies restrains spectral context effects in vowel categorization." Poster presented at the 175<sup>th</sup> Meeting of the Acoustical Society of America, Minneapolis, Minnesota.

45. Assgari, A.A.\*, Frazier, J.M.\*, & **Stilp, C.E.** (2018, May). "Musical instrument categorization is highly sensitive to spectral properties of earlier sounds." Paper presented at the 175<sup>th</sup> Meeting of the Acoustical Society of America, Minneapolis, Minnesota.

44. **Stilp, C.E.** & Assgari, A.A.\* (2018, May). "Natural signal statistics and the timecourse of spectral context effects in consonant categorization." Paper presented at the 175<sup>th</sup> Meeting of the Acoustical Society of America, Minneapolis, Minnesota.

43. **Stilp, C.E.** & Assgari, A.A.\* (2017, December). "Filtered and unfiltered sentences produce different spectral context effects in vowel categorization." Poster presented at the 174<sup>th</sup> Meeting of the Acoustical Society of America, New Orleans, Louisiana.

42. **Stilp, C.E.** (2017, December). "Background noise interacts with spectral context effects during speech categorization." Paper presented at the 174<sup>th</sup> Meeting of the Acoustical Society of America, New Orleans, Louisiana.

41. Walker, N., **Stilp, C.E.**, Kluender, K.R., Evans, J., & Schepple, M. (2017, November). "Neurobiological mechanisms of efficient encoding: A pilot EEG study." Paper presented at the 9<sup>th</sup> Meeting of the Society for the Neurobiology of Language, Washington, D.C.

40. Assgari, A.A.\*, Theodore, R.M., & **Stilp, C.E.** (2017, June). "Isolating sources of acoustic variability that diminish spectral contrast effects in vowel categorization." Poster presented at the 173<sup>rd</sup> Meeting of the Acoustical Society of America, Boston, Massachusetts.

39. **Stilp, C.E.** (2016, May). "An information-theoretic approach to understanding interrupted speech." Invited paper presented at the 171<sup>st</sup> Meeting of the Acoustical Society of America, Salt Lake City, Utah.

38. **Stilp, C.E.**, & Alexander, J.M. (2016, May). "Spectral contrast effects in vowel categorization by listeners with sensorineural hearing loss." Poster presented at the 171<sup>st</sup> Meeting of the Acoustical Society of America, Salt Lake City, Utah.

37. Assgari, A.A.\*, Mohiuddin, A.\*, Theodore, R.M., & **Stilp, C.E.** (2016, May). "Dissociating contributions of talker gender and acoustic variability for spectral contrast effects in vowel categorization." Paper presented at the 171<sup>st</sup> Meeting of the Acoustical Society of America, Salt Lake City, Utah.

36. **Stilp, C.E.**, Anderson, P.W.\*, Assgari, A.A.\*, Ellis, G.M., & Zahorik, P. (2015, May). “Reverberation increases perceptual calibration to reliable spectral peaks in speech.” Paper presented at the 169<sup>th</sup> Meeting of the Acoustical Society of America, Pittsburgh, Pennsylvania.
35. **Stilp, C.E.**, & Assgari, A.A.\* (2015, May). “Languages across the world are efficiently coded by the auditory system”. Poster presented at the 169<sup>th</sup> Meeting of the Acoustical Society of America, Pittsburgh, Pennsylvania.
34. **Stilp, C.E.**, Donaldson, G., Oh, S., & Kong, Y-Y. (2015, May). “On the importance of information-bearing acoustic changes for understanding speech in simulated electrical-acoustic stimulation”. Poster presented at the 169<sup>th</sup> Meeting of the Acoustical Society of America, Pittsburgh, Pennsylvania.
33. Assgari, A.A.\*, & **Stilp, C.E.** (2015, May). “Talker normalization and acoustic properties both influence spectral contrast effects in speech perception.” Poster presented at the 169<sup>th</sup> Meeting of the Acoustical Society of America, Pittsburgh, Pennsylvania.
32. Llanos, F., Alexander, J.M., & **Stilp, C.E.** (2015, May). “Shannon entropy predicts the sonority status of natural classes in English.” Poster presented at the 169<sup>th</sup> Meeting of the Acoustical Society of America, Pittsburgh, Pennsylvania.
31. **Stilp, C.E.**, & Assgari, A.A.\* (2015, February). “Does the auditory system efficiently code all languages or just American English?” Poster presented at the 38<sup>th</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, Maryland.
30. **Stilp, C.E.** (2015, February). “Reliable spectral properties elicit contrast effects in perception of noise-vocoded speech”. Poster presented at the 38<sup>th</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, Maryland.
29. **Stilp, C.E.** (2014, October). “Information-bearing acoustic changes are important for understanding vocoded speech in a simulation of cochlear implant processing strategies”. Poster presented at the 168<sup>th</sup> Meeting of the Acoustical Society of America, Indianapolis, Indiana.
28. **Stilp, C.E.**, & Anderson, P.W.\* (2014, October). “Modest, reliable spectral peaks in preceding sounds influence vowel perception”. Paper presented at the 168<sup>th</sup> Meeting of the Acoustical Society of America, Indianapolis, Indiana.
27. Anderson, P.W.\*, & **Stilp, C.E.** (2014, October). “Adaptive compensation for reliable spectral characteristics of a listening context in vowel perception.” Poster presented at the 168<sup>th</sup> Meeting of the Acoustical Society of America, Indianapolis, Indiana.
26. **Stilp, C.E.**, & Goupell, M.J. (2014, May). “Defining spectral and temporal resolutions of information-bearing acoustic changes for understanding noise-vocoded sentences”. Poster presented at the 167<sup>th</sup> Meeting of the Acoustical Society of America, Providence, Rhode Island.
25. Anderson, P.W.\*, & **Stilp, C.E.** (2014, May). “Defining essential characteristics of reliable spectral properties that elicit spectral contrast effects in vowel identification”. Poster presented at the 167<sup>th</sup> Meeting of the Acoustical Society of America, Providence, Rhode Island.
24. **Stilp, C.E.**, & Goupell, M.J. (2014, February). “Spectral and temporal resolution of information-bearing acoustic changes in vocoded sentences”. Poster presented at the 37<sup>th</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology, San Diego, California.

23. Anderson, P.W.\*, & **Stilp, C.E.** (2014, February). "Perceptual calibration to modest, predictable spectral peaks in precursor sounds influences vowel identification". Poster presented at the 37<sup>th</sup> Annual MidWinter Meeting of the Association for Research in Otolaryngology, San Diego, California.
22. **Stilp, C.E.** (2013, December). "Information-bearing acoustic change outperforms duration in predicting sentence intelligibility in normal and simulated electric hearing". Paper presented at the 166<sup>th</sup> Meeting of the Acoustical Society of America, San Francisco, California.
21. **Stilp, C.E.**, & Lewicki, M. (2013, December). "Statistical structure of speech sound classes is congruent with cochlear nucleus response properties". Poster presented at the 166<sup>th</sup> Meeting of the Acoustical Society of America, San Francisco, California.
20. **Stilp, C.E.**, & Kluender, K.R. (2012, October). "Efficient coding of multiple nonorthogonal redundancies between acoustic dimensions in novel complex sounds". Paper presented at the 164<sup>th</sup> Meeting of the Acoustical Society of America, Kansas City, Missouri.
19. **Stilp, C.E.**, & Kluender, K.R. (2012, October). "Efficient coding of redundancy among formant frequencies in vowels". Poster presented at the 164<sup>th</sup> Meeting of the Acoustical Society of America, Kansas City, Missouri.
18. **Stilp, C.E.**, & Kluender, K.R. (2012, October). "Novelty detection of covariance among stimulus attributes in auditory perception". Poster presented at the 164<sup>th</sup> Meeting of the Acoustical Society of America, Kansas City, Missouri.
17. Jiang, Y., **Stilp, C.E.**, & Kluender, K.R. (2012, October). "Cochlea-scaled entropy predicts intelligibility of Mandarin Chinese sentences". Poster presented at the 164<sup>th</sup> Meeting of the Acoustical Society of America, Kansas City, Missouri.
16. **Stilp, C.E.**, & Kluender, K.R. (2011, May). "Discrimination of acoustic differences improves with greater dissimilarity to experienced covariance". Paper presented at the 161<sup>st</sup> Meeting of the Acoustical Society of America, Seattle, Washington.
15. **Stilp, C.E.**, & Kluender, K.R. (2011, May). "Cochlea-scaled entropy predicts speech intelligibility when intensity is scaled as linear amplitude or as loudness, but not when scaled logarithmically". Paper presented at the 161<sup>st</sup> Meeting of the Acoustical Society of America, Seattle, Washington.
14. **Stilp, C.E.** (2010, November). "The high predictability of speech sounds in sentential context". Poster presented at the 160<sup>th</sup> Meeting of the Acoustical Society of America, Cancun, Mexico.
13. **Stilp, C.E.**, Rogers, T.T., & Kluender, K.R. (2010, November). "Efficient coding of attenuated correlation among complex acoustic dimensions". Poster presented at the 160<sup>th</sup> Meeting of the Acoustical Society of America, Cancun, Mexico.
12. **Stilp, C.E.**, Kiefte, M., & Kluender, K.R. (2010, April). "Signal detection as a function of relative acoustic entropy". Paper presented at the 159<sup>th</sup> Meeting of the Acoustical Society of America, Baltimore, Maryland.
11. **Stilp, C.E.**, Rogers, T.T., & Kluender, K.R. (2009, October). "Efficient coding of correlated complex acoustic dimensions through active listening". Paper presented at the 158<sup>th</sup> Meeting of the Acoustical Society of America, San Antonio, Texas.
10. **Stilp, C.E.**, & Kluender, K.R. (2009, October). "Potential information predicts sentence intelligibility better than vowels, consonants, or duration". Poster presented at the 158<sup>th</sup> Meeting of the Acoustical Society of America, San Antonio, Texas.

9. Kluender, K.R., **Stilp, C.E.**, & Rogers, T.T. (2009, May). "Vowel-inherent spectral change enhances adaptive dispersion". Paper presented at the 157<sup>th</sup> Meeting of the Acoustical Society of America, Portland, Oregon.
8. Kiefte, M., Collins, T., **Stilp, C.E.**, & Kluender, K.R. (2009, May). "Formant-frequency transitions as acoustic correlates to speech perception". Paper presented at the 157<sup>th</sup> Meeting of the Acoustical Society of America, Portland, Oregon.
7. **Stilp, C.E.**, Rogers, T.T., & Kluender, K.R. (2009, February). "Efficient encoding of correlated complex acoustic dimensions". Poster presented at the 32nd MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, Maryland.
6. **Stilp, C.E.**, Rogers, T.T., Jacobs, S.L., & Kluender, K.R. (2008, November). "Rapid efficient encoding of correlated complex acoustic properties". Paper presented at the 156<sup>th</sup> Meeting of the Acoustical Society of America, Miami, Florida.
5. Kiefte, M., **Stilp, C.E.**, & Kluender, K.R. (2008, November). "Channel segregation improves perception of speech with temporally desynchronized bands". Poster presented at the 156<sup>th</sup> Meeting of the Acoustical Society of America, Miami, Florida.
4. **Stilp, C.E.**, Alexander, J.M., Kiefte, M., & Kluender, K.R. (2007, November). "Intelligibility of information in temporally desynchronized bands of speech". Poster presented at the 154<sup>th</sup> Meeting of the Acoustical Society of America, New Orleans, Louisiana.
3. **Stilp, C.E.**, Alexander, J.M., & Kluender, K.R. (2007, June). "Spectral coherence predicts resilience of speech to temporal distortion". Poster presented at the 153<sup>rd</sup> Meeting of the Acoustical Society of America, Salt Lake City, Utah.
2. **Stilp, C.E.**, & Kluender, K.R. (2006, June). "Perceptual absorption of listening context when perceiving musical instruments". Poster presented at the 151<sup>st</sup> Meeting of the Acoustical Society of America, Providence, Rhode Island.
1. **Stilp, C.E.**, & Kluender, K.R. (2005, October). "Effects of rhythmic precursors on perception of stress/syllabicity". Poster presented at the 150<sup>th</sup> Meeting of the Acoustical Society of America, Minneapolis, Minnesota.

#### **ADDITIONAL PRESENTATIONS**

6. Frazier, J.F\*, Assgari, A.A.\*, & **Stilp, C.E.** (2017, December). "Variable influence of earlier sounds on musical instrument identification." Poster presented to fulfill the Culminating Undergraduate Experience, Department of Psychological and Brain Sciences, University of Louisville, Louisville, Kentucky.
5. Zahorik, P., Preminger, J.E., & **Stilp, C.E.** (2017, June). "Graduate training opportunities in the hearing sciences at the University of Louisville." Poster presented at the 173<sup>rd</sup> Meeting of the Acoustical Society of America, Boston, Massachusetts.
4. Mohiuddin, A.\*, Assgari, A.A.\*, & **Stilp, C.E.** (2016, April). "Effects of talker variability on spectral contrast effects". Poster presented at the 2016 Undergraduate Research and Community Engagement Symposium, University of Louisville, Louisville, Kentucky.
3. Zahorik, P., Preminger, J.E., & **Stilp, C.E.** (2014, October). "Graduate training opportunities in the hearing sciences at the University of Louisville." Poster presented at the 168<sup>th</sup> Meeting of the Acoustical Society of America, Indianapolis, Indiana.

2. **Stilp, C.E.** (2013, October). "Information-bearing acoustic changes contribute to speech perception in acoustic and simulated electric hearing." Paper presented at the Midwest Cochlear-Implant Research Symposium, Madison, Wisconsin.

1. **Stilp, C.E., & Kluender, K.R.** (2005, September). "Rhythmic context affects perception of stress and syllabicity". Paper presented at the 20<sup>th</sup> Annual First Year Symposium, Department of Psychology, University of Wisconsin, Madison, Wisconsin.

## **GRANTS**

### **External**

National Institutes of Health: National Institute on Deafness and Communicative Disorders

"Sensitivity to Spectral Cues in Infant Speech Perception" (F31DC009532)

Role: PI (Co-sponsors: Jenny Saffran, Keith Kluender)

Dates: 7/1/2008 – 6/30/2011

### **Internal**

University of Louisville Executive Vice President for Research and Innovation (EVPRI) Internal Research Grant (\$2,994)

"Understanding how recently heard sounds bias perception of speech sounds"

Role: PI

Dates: 1/1/2017 – 12/31/2017 (no cost extension to 6/30/2018)

## **INVITED TALKS**

09/2018 National Center for Rehabilitative Auditory Research  
04/2018 Diehl-a-Palooza (Feshschrift for Randy Diehl), University of Texas  
05/2016 Presenter/Panelist, "Lessons from Interrupted Speech: Methods and Models", 171<sup>st</sup> Meeting of the Acoustical Society of America, Salt Lake City, Utah  
04/2014 Grand Rounds, Division of Communicative Disorders, University of Louisville  
03/2013 Grand Rounds, Heuser Hearing Institute  
01/2012 Department of Psychological & Brain Sciences, University of Louisville  
04/2011 Department of Electrical Engineering & Computer Sciences, Case Western Reserve University  
03/2011 Department of Speech and Hearing Sciences, Ohio State University  
03/2011 Department of Psychological Sciences, Case Western Reserve University  
02/2011 Department of Communicative Disorders, University of Wisconsin – Madison  
02/2011 Department of Physiology, University of Wisconsin – Madison  
02/2010 Department of Physiology, University of Wisconsin – Madison  
03/2009 Department of Physiology, University of Wisconsin – Madison  
03/2008 Department of Physiology, University of Wisconsin – Madison  
02/2008 Department of Communicative Disorders, University of Wisconsin – Madison

## **TEACHING**

### **University of Louisville**

**Instructor (s = spring term, f = fall term)**

2018s, 2017sf, Quantitative Methods in Psychology

2016sf, 2015sf,

2014sf, 2013sf,

2012f

2018s, 2017s, Sensation and Perception (undergraduate)

2014f



2018s, 2017sf, Independent Research  
 2016sf, 2015sf,  
 2014sf, 2013sf  
 2017f, 2015s Hearing Science  
 2017s, 2016f Research in Experimental Psychology  
 2016s, 2015f Independent Honors Research  
 2016s, 2014s Sensation and Perception (graduate)  
 2013s Research in Vision and Hearing Sciences  
University of Wisconsin  
 2010s Sensation and Perception (undergraduate)

### **STUDENTS MENTORED**

#### Graduate Research Assistants, University of Louisville

2014-2018 Ashley Assgari, Department of Psychological and Brain Sciences  
 • Recipient of 2018 John Richard Binford Memorial Award and Graduate Dean's Citation

2013-2014 Paul Anderson, Department of Psychological and Brain Sciences

#### Undergraduate Research Assistants, University of Louisville

2018 Scott Barrett, Ella Beilman, Rebecca Davis, Emily Dickey, Joshua Lanning, Caroline Smith, Pratistha Thapa, Sara Wardrip  
 2017 Ashley Batliner, Samantha Cardenas, Rebecca Davis, Jonathan Frazier, Joshua Lanning, Carly Newman, Madison Rhyne, Caroline Smith  
 2016 Ashley Batliner, Alexandra Beason, Asim Mohiuddin, Carly Newman, Madison Rhyne, Niko Sikkel  
 2015 Alexandra Beason, Almina Klanco, Orlando Madriz, Asim Mohiuddin, Emily Nations, Caitlyn Stromatt  
 2014 Kara Hendrix, Almina Klanco, Emily Nations, Elizabeth Niehaus, McKenzie Sexton, Lillian Slaughter, Caitlyn Stromatt  
 2013 Andrew McPheron, Elizabeth Niehaus, Ijeoma Okorie, McKenzie Sexton, Lillian Slaughter  
 2012 Ijeoma Okorie

#### Undergraduate Research Assistants, University of Wisconsin

2012 Nora Brand  
 2011 Bridget Blake, Nora Brand, Ray Kluender, Anna Joy Tan  
 2010 Bridget Blake, Kyira Hauer, Ray Kluender, Jasmine Morano, Anna Joy Tan, Brittany Thomson  
 2009 Katie Allie, Laurie Donnell, Natalie Fondell, Kyira Hauer, Brittany Thomson, Kelsey Wegner  
 2008 Katie Allie, Laurie Donnell, Natalie Fondell, Kyira Hauer, Lauren Ottenstein, Kelsey Wegner  
 2007 Benjamin Hesprich, Lauren Ottenstein  
 2006 Benjamin Hesprich, Aaron Schumacher  
 2005 Aaron Schumacher

### **SERVICE**

#### University / Community Committees

2015-2019 Grawemeyer Committee, Department of Psychological and Brain Sciences, University of Louisville  
 2017-2019 Subject Pool Committee, Department of Psychological and Brain Sciences, University of Louisville  
 2013-2018 Website Committee, Department of Psychological and Brain Sciences, University of Louisville (Committee Chair, 2014-2018)  
 2012-2017 Steering Committee for Au.D./Ph.D Joint Degree, University of Louisville  
 2014-2015, Faculty Search Committee, Department of Psychological and Brain Sciences, University of  
 2013-2014 Louisville

2012-2014 Ad Hoc Committee for the Graduate Core Curriculum, Department of Psychological and Brain Sciences, University of Louisville

2012-2013 Planning Committee for 2013 Research Symposium, Heuser Hearing Institute, Louisville, KY

#### Student Supervisory Committees

##### Dissertations

2018 (projected) Greg Ellis, Department of Psychological and Brain Sciences

2018 Ashley Assgari, Department of Psychological and Brain Sciences

2017 Eleanor O'Keefe, Department of Psychological and Brain Sciences

2015 Wenhao Dang, Department of Psychological and Brain Sciences

2015 Paul Anderson, Department of Psychological and Brain Sciences

2012 Carissa Shafto, Department of Psychological and Brain Sciences

##### Preliminary Exams

2016 Greg Ellis, Department of Psychological and Brain Sciences

2016 Ashley Assgari, Department of Psychological and Brain Sciences

2014 Eleanor O'Keefe, Department of Psychological and Brain Sciences

2013 Hillary Williams, Department of Psychological and Brain Sciences

2013 Kate Godwin, Department of Psychological and Brain Sciences

2013 Paul Anderson, Department of Psychological and Brain Sciences

2013 Wenhao Dang, Department of Psychological and Brain Sciences

2012 April Schweinhart, Department of Psychological and Brain Sciences

##### Master's Degree Portfolios

2016 Greg Ellis, Department of Psychological and Brain Sciences

2016 Ashley Assgari, Department of Psychological and Brain Sciences

##### First Year Research Projects

2012 Kate Godwin, Department of Psychological and Brain Sciences

2012 Eleanor O'Keefe, Department of Psychological and Brain Sciences

2012 Hillary Williams, Department of Psychological and Brain Sciences

##### Undergraduate Honors Theses

2019 (projected) Rebecca Davis, Department of Psychological and Brain Sciences

2019 (projected) Emily Dickey, Department of Psychological and Brain Sciences

2018 Brianna Berry, Department of Psychological and Brain Sciences

2016 Asim Mohiuddin, Department of Psychological and Brain Sciences

##### Culminating Undergraduate Experience (CUE) Presentations

2018 (projected) Joshua Lanning, Department of Psychological and Brain Sciences

2017 Jonathan Frazier, Department of Psychological and Brain Sciences

## **PROFESSIONAL AFFILIATIONS**

Acoustical Society of America

Association for Research in Otolaryngology

## **PROFESSIONAL DUTIES**

2010-Present Ad hoc reviewer: *American Journal of Psychology*, *Attention, Perception, & Psychophysics*, *Cognition*, *Current Biology*, *Ear & Hearing*, *Hearing Research*, *Journal of the Acoustical Society of America*, *Journal of the Association for Research in Otolaryngology*, *Journal of Experimental Psychology: Human Perception and Performance*, *Journal of Phonetics*, *Journal of Speech, Language, and Hearing Research*, *LabPhon*, *Nature Communications*, *PLoS Computational Biology*, *PLoS One*, *Proceedings of the Royal Society B: Biological Sciences*, *Psychological Science*, *Speech Communication*

2018 Editorial Board Member, *Journal of Speech, Language, and Hearing Research*

2018 Session Chair, "Sensitivity to Spectral and Temporal Information", 175<sup>th</sup> Meeting of the Acoustical Society of America (May 2018; Minneapolis, MN)

- 2015-2019 Technical Program Chair, 177<sup>th</sup> Meeting of the Acoustical Society of America (May 2019; Louisville, KY)
- 2017-2020 Member, Technical Committee on Psychological and Physiological Acoustics, Acoustical Society of America
- 2014-2019 Member, Technical Committee on Speech Communication, Acoustical Society of America
- 2014 Coordinator, Best Student Paper Award in Speech Communication; 167<sup>th</sup> (Providence, RI) and 168<sup>th</sup> (Indianapolis, IN) Meetings of the Acoustical Society of America
- 2008-2010 Student Council Representative (Speech Communication), Acoustical Society of America