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Current Position

Assistant Professor
Villanova University
College of Liberal Arts & Sciences
Dept. of Psychology
Cognitive Science Program
Cognitive & Behavioral Neuroscience Program

Areas of Specialization

cognitive science, cognitive psychology; cognitive neuroscience; speech perception; language processing; hearing; computational modeling.

Education

- 2011 PH.D. in Psychology—Cognition and Perception
University of Iowa
- 2005 B.S. in Brain and Cognitive Sciences, Honors in Research
University of Rochester

Academic Appointments

- 2014- Assistant Professor, Dept. of Psychology
Villanova Univ.
- 2011-2014 Postdoctoral Fellow, Beckman Inst. for Advanced Science & Technology
Univ. of Illinois at Urbana-Champaign
- 2005-2011 Graduate Research Assistant, Dept. of Psychology
Univ. of Iowa (Advisor: Dr. Bob McMurray)
- 2004 Research Assistant, Human Information Processing Branch
NASA Ames Research Center (Advisors: Drs. Lee Stone & Brent Beutter)
- 2003-2005 Research Assistant, Dept. of Brain & Cognitive Sciences
Univ. of Rochester (Advisor: Dr. Michael Tanenhaus)

Honors & Awards

- 2014 Select-Speaker Award, Psychonomic Society

- 2011 Beckman Fellowship, Beckman Inst. for Advanced Science & Technology
- 2011 Don Lewis Dissertation Year Award, Univ. of Iowa, Dept. of Psychology
- 2010 Graduate College Summer Fellowship, Univ. of Iowa
- 2008 Best Student Paper in Speech Communication—2nd Prize, Acoust. Soc. of America
- 2008 Computational Modeling Prize in Perception & Action, Cognitive Science Society
- 2007 J.R. Simon Early Scholarship Potential Award, Univ. of Iowa, Dept. of Psychology
- 2006 Best Student Paper in Speech Communication—1st Prize, Acoust. Soc. of America
- 2006-2010 Travel Funds Awards (4), Univ. of Iowa Graduate Student Senate
- 2006-2007 Scholarly Presentation Awards (2), Univ. of Iowa Student Government
- 2004 Undergraduate Student Research Program, NASA Ames Research Center

Professional Development

- 2011 Fast Optical Imaging Summer Workshop, Univ. of Illinois at Urbana-Champaign
- 2006 ERP Boot Camp, Univ. of California, Davis

Professional Affiliations

- 2012- Fellow, Psychonomic Society
- 2008- Member, Cognitive Science Society
- 2006- Associate Member, Acoustical Society of America

Research

Publications (* Student author)

Journal Articles

- in press *Buxó-Lugo, A., Toscano, J.C., & Watson, D.G. (in press). Effects of participant engagement on prosodic prominence. To appear in *Discourse Processes*.
- 2015 Toscano, J.C., & McMurray, B. (2015). The time-course of speaking rate compensation: Effects of sentential rate and vowel length on voicing judgments. *Language, Cognition, and Neuroscience*, 30, 529-543.
- 2014 Toscano, J.C., & Allen, J.B. (2014). Across and within consonant errors for isolated syllables in noise. *Journal of Speech, Language, and Hearing Research*, 57, 2293-2307.

- 2013 Toscano, J.C., *Anderson, N.D., & McMurray, B. (2013). Reconsidering the role of temporal order in spoken word recognition. *Psychonomic Bulletin and Review*, 20, 981-987.
- 2012 Toscano, J.C., & McMurray, B. (2012). Cue integration and context effects in speech: Evidence against speaking rate normalization. *Attention, Perception, & Psychophysics*, 76, 1284-1301.
- 2010 Toscano, J.C., McMurray, B., Dennhardt, J., & Luck, S.J. (2010). Continuous perception and graded categorization: Electrophysiological evidence for a linear relationship between the acoustic signal and perceptual encoding of speech. *Psychological Science*, 21, 1532-1540.
- 2010 Toscano, J.C., & McMurray, B. (2010). Cue integration with categories: Weighting acoustic cues in speech using unsupervised learning and distributional statistics. *Cognitive Science*, 34, 434-64.
- 2009 McMurray, B., Aslin, R.N., & Toscano, J.C. (2009). Statistical learning of phonetic categories: Insights from a computational approach. *Developmental Science*, 12, 369-378.
- 2008 Toscano, J.C., Perry, L.K., Mueller, K.L., Bean, A.F., Galle, M.E., & Samuelson, L.K. (2008). Language as shaped by the brain; the brain as shaped by development. Commentary on Christiansen & Chater, "Language as shaped by the brain", *Behavioral and Brain Sciences*, 31, 535-536.

Book Chapters

- 2015 Toscano, J.C., *Buxó-Lugo, A., & Watson, D.G. (2015). Using game-based approaches to increase level of engagement in research and education. In S. Dijkers (Ed.), *TeacherCraft: Using Minecraft for Teaching and Learning*. Pittsburgh: ETC Press.
- 2009 McMurray, B., Horst, J., Toscano, J.C., & Samuelson, L. K. (2009). Towards an integration of connectionist learning and dynamical systems processing: Case studies in speech perception and lexical development. In J.P. Spencer, M. Thomas, & J. McClelland (Eds.), *Toward a Unified Theory of Development: Connectionism and Dynamic Systems Theory Re-Considered* (pp. 218-249). New York: Oxford University Press.

Refereed Proceedings Papers

- 2010 Toscano, J.C., Mueller, K.L., McMurray, B., & Tomblin, J.B. (2010). Simulating individual differences in language ability and genetic differences in FOXP2 using a neural network model of the SRT task. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 2230-2235). Austin, TX: Cognitive Science Society.
- 2008 Toscano, J.C. & McMurray, B. (2008). Using the distributional statistics of speech sounds for weighting and integrating acoustic cues. In B.C. Love, K. McRae, & V.M. Sloutsky

(Eds.), *Proceedings of the 30th Annual Conference of the Cognitive Science Society* (pp. 433-438). Austin, TX: Cognitive Science Society.

Technical Reports & Other Manuscripts

- 2011 Toscano, J.C. (2011). Perceiving speech in context: Compensation for contextual variability during acoustic cue encoding and categorization. Doctoral dissertation, University of Iowa.
- 2005 Toscano, J.C. (2005). Effect of object salience on eye movements in a visual-linguistic task. Honors thesis for the B.S. in Brain and Cognitive Sciences, University of Rochester.
- 2005 Toscano, J.C., & Beutter, B.R. (2005). Performance during visual search: Designing spacecraft with humans in mind. *University of Rochester Journal of Undergraduate Research*, 3, 8-12.
- 2004 Toscano, J.C. (2004). Effect of salience on saccadic performance during visual search. NASA Undergraduate Student Research Program Technical Report.

Presentations

Invited Talks and Colloquia

- 2015 Toscano, J.C. (2015, November). Encoding continuous acoustic cues in speech: An approach for understanding speech perception and development. Invited talk presented at Nemours duPont Hospital for Children, Translational Science Seminar, Wilmington, DE.
- 2014 Toscano, J.C. (2014, October). The time-course of spoken word recognition: Continuous cues operating continuously in time. Invited talk presented at the Department of Communication Sciences and Disorders, Northwestern University, Evanston, IL.
- 2014 Toscano, J.C. (2014, October). The neural organization of speech perception. Invited talk presented at the *Beckman Institute 25th Anniversary Symposium*.
- 2014 Toscano, J.C. (2014, October). Continuity in spoken word recognition revealed in the time-course of processing. Invited talk presented at the Institute for Research in Cognitive Science, University of Pennsylvania, Philadelphia, PA.
- 2014 Toscano, J.C. (2014, April). The time-course of spoken word recognition. Invited talk presented at the Volen National Center for Complex Systems, Brandeis University, Waltham, MA.
- 2013 Toscano, J.C. (2013, May). Computing the reliability of acoustic information in speech. Invited talk presented at the Dept. of Linguistics, Northwestern Univ., Evanston, IL.
- 2013 Toscano, J.C. (2013, April). Computational approaches to speaker adaptation and perceptual learning. Invited paper presented at the *Workshop on Current Issues and Methods in*

Speaker Adaptation, Department of Linguistics, Ohio State University, Columbus, OH.

- 2013 Toscano, J.C. (2013, February). Acquiring and adapting phonological categories: Insights from computational modeling approaches. Invited talk presented at the Department of Linguistics, University of Illinois at Urbana-Champaign, Urbana, IL.
- 2005 Toscano, J.C. (2005, November). Category acquisition through statistical learning using a mixture of Gaussians model. Invited talk presented at the University of Rochester Speech Group, Rochester, NY.

Conference Symposia

- 2012 McMurray, B., & Toscano, J.C. (2012, October). The consequences of lexical sensitivity to fine grained detail: Solving the problems of integrating cues and processing speech in time. In A. Jongman & J. Sereno (Chairs), *The nature of lexical representations in the perception and production of speech*. Symposium presented at the *164th Meeting of the Acoustical Society of America*, Kansas City, MO.
- 2010 McMurray, B., Apfelbaum, K.S., Toscano, J.C., & Samuelson, L.K. (2010, March). Something old and something new: Word learning as the interaction of statistical association and dynamic competition. In C. Yu (Chair), *Modeling statistical word learning*. Symposium presented at the *International Conference on Infant Studies*, Baltimore, MD.

Conference Presentations (* Mentored student)

- 2016 *Pereira, O., & Toscano, J.C. (2016, August). Auditory N1 Amplitude varies across multiple acoustic and phonological dimensions in speech. Poster presented at the *38th Annual Meeting of the Cognitive Science Society*, Philadelphia, PA.
- 2016 *Vrabic, S., *Nordeen, E., & Toscano, J.C. (2016, August). Speech perception across the lifespan: Using a Gaussian mixture model to understand changes in cue weighting between younger and older adults. Poster presented at the *38th Annual Meeting of the Cognitive Science Society*, Philadelphia, PA.
- 2016 *Biro, T., Viswanathan, N., & Toscano, J.C. (2016, March). Using naturalistic and engaging tasks to measure phonetic convergence. Poster presented at the *Sociolinguistic Variation and Language Processing Conference*, Virginia Tech, Blacksburg, VA.
- 2015 *Biro, T., Toscano, J.C., & Viswanathan, N. (2015, November). Measuring phonetic convergence and acoustic properties of speech with engaging, naturalistic tasks. Poster presented at the *14th Annual Auditory Perception, Cognition, & Action Meeting*, Chicago, IL.
- 2015 *Curley, T., & Toscano, J.C. (2015, November). Overcoming talker variability when learning speech sound categories: A computational approach. Poster presented at the *56th Annual Meeting of the Psychonomic Society*, Chicago, IL. (Recipient of Psychonomic Society

Graduate Travel Award)

- 2015 *Folk, E., & Toscano, J.C. (2015, November). Rapid lexical processing revealed by the timecourse of ERP responses. Poster presented at the *56th Annual Meeting of the Psychonomic Society*, Chicago, IL.
- 2015 *Saltzman, D., Rhone, A., McMurray, B., & Toscano, J.C. (2015, November). Artificially natural: Creating carefully-controlled acoustic cue continua from natural speech. Poster presented at the *14th Annual Auditory Perception, Cognition, and Action Meeting*, Chicago, IL.
- 2015 *Tabachnick, A., *Brooks, B., Allen, J.B., & Toscano, J.C. (2015, November). Speech testing using token-level error thresholds: Comparison with pure-tone audiograms. Poster presented at the *14th Annual Auditory Perception, Cognition, and Action Meeting*, Chicago, IL.
- 2015 Zhou, P., Toscano, J.C., Garnsey, S.M., & Christianson, K. (2015, March). Structural complexity modulates “semantic P600” in sentence processing. Poster presented at the *Annual Meeting of the Cognitive Neuroscience Society*, San Francisco, CA.
- 2014 Toscano, J.C., Anderson, N.D., Garnsey, S.M., Fabiani, M., & Gratton, G. (2014, November). Speech sound encoding in the brain measured using fast diffuse optical imaging. Paper presented at the *55th Annual Meeting of the Psychonomic Society*, Long Beach, CA. (Recipient of Psychonomic Society Select Speaker Award)
- 2014 Toscano, J.C. (2014, May). Unsupervised learning of phonetic cues in speech. Paper presented at the *2014 Midwest Speech and Language Days*, Urbana, IL.
- 2014 Anderson, N.D., Toscano, J.C., Garnsey, S.M., Fabiani, M., & Gratton, G. (2014, May). Gradient coding of voice onset time in posterior temporal cortex. Poster presented at the *167th Meeting of the Acoustical Society of America*, Providence, RI.
- 2014 Anderson, N.D., Toscano, J.C., Garnsey, S.M., Fabiani, M., & Gratton, G. (2014, April). Graded representations of voice onset time: Evidence from optical imaging. Poster presented at the *Annual Meeting of the Cognitive Neuroscience Society*, Boston, MA.
- 2014 Brown-Schmidt, S., & Toscano, J.C. (2014, March). Continuous acoustic information trickles up; discourse information trickles down. Poster presented at the *27th Annual CUNY Conference on Human Sentence Processing*, Columbus, OH.
- 2013 Toscano, J.C., Trevino, A., & Allen, J.B. (2013, October). Assessing the assessment: Measuring listeners’ speech recognition errors for specific consonants and tokens. Poster presented at the *2013 Aging and Speech Communication Conference*, Indiana University, Bloomington, IN.

- 2013 Buxó-Lugo, A., Toscano, J.C., & Watson, D.G. (2013, March). Task effects on prosodic prominence. Paper presented at the *26th Annual CUNY Conference on Human Sentence Processing*, Columbia, SC.
- 2012 Toscano, J.C., & McMurray, B. (2012, November). Combining cues to recognize speech: Acoustic measurements of phonetic cues to word-medial voicing. Poster presented at the *53rd Annual Meeting of the Psychonomic Society*, Minneapolis, MN.
- 2012 Toscano, J.C., & McMurray, B. (2012, November). An approach for manipulating the perceived gender of a talker's voice for studies of indexical effects in speech perception. Paper presented at the *11th Auditory Perception, Cognition, & Action Meeting*, Minn., MN.
- 2012 Toscano, J.C., & McMurray, B. (2012, October). Voicing in English revisited: Measurement of acoustic features signaling word-medial voicing in trochees. Poster presented at the *164th Meeting of the Acoustical Society of America*, Kansas City, MO.
- 2012 Toscano, J.C., & McMurray, B. (2012, October). Perception of continuous acoustic cues in speech revealed by the auditory N1 and P3 ERP components. Poster presented at the *2012 Neurobiology of Language Conference*, San Sebastian, Spain.
- 2012 Toscano, J.C., & McMurray, B. (2012, January). Measuring perceptual encoding and categorization of speech sounds using an ERP approach. Poster presented at the *6th Annual Conference of the Auditory Cognitive Neuroscience Society*, Tucson, AZ.
- 2011 Toscano, J.C., Anderson, N.D., & McMurray, B. (2011, November). The role of time in spoken word recognition: Evidence against temporal order in lexical representations. Poster presented at the *52nd Annual Meeting of the Psychonomic Society*, Seattle, WA.
- 2011 Toscano, J.C., & McMurray, B. (2011, November). Measuring acoustic cue encoding and categorization during speech processing using the auditory N1 and P3 ERP components. Paper presented at the *10th Auditory Perception, Cognition, and Action Meeting*, Seattle, WA.
- 2011 Toscano, J.C., Anderson, N.D., & McMurray, B. (2011, October). The role of phoneme order and phonetic detail in spoken word recognition. Paper presented at the *17th Mid-Continental Workshop on Phonetics and Phonology*, Urbana, IL.
- 2010 Clayards, M., & Toscano, J.C. (2010, August). Modeling age of exposure in L2 learning of vowel categories. Poster presented at the *32nd Annual Conference of the Cognitive Science Society*, Portland, OR.
- 2009 Toscano, J.C., McMurray, B., Luck, S.J., & Dennhardt, J. (2009, April). Listeners' sensitivity to acoustic detail in speech at the level of both early encoding and categorization. Poster presented at the *15th International Congress on Event-Related Potentials of the Brain*, Indiana University, Bloomington, IN.

- 2008 Toscano, J.C., & McMurray, B. (2008, November). Online processing of acoustic cues in speech perception: Comparing statistical and neural network models. Poster presented at the *156th Meeting of the Acoustical Society of America*, Miami, FL. (Winner of Best Student Paper in Speech Communication—2nd Prize)
- 2008 Toscano, J.C. & McMurray, B. (2008, October). Perception of voicing is graded all the way down: Evidence from electrophysiology. Paper presented at the *14th Mid-Continental Workshop on Phonology*, University of Minnesota, Minneapolis, MN.
- 2007 Toscano, J.C., Galle, M. E., & McMurray, B. (2007, October). Learning positional variation and place of articulation in stop consonants from the distributional statistics of acoustic cues. Poster presented at the *13th Mid-Continental Workshop on Phonology*, Ohio State University, Columbus, OH.
- 2007 Toscano, J.C. & McMurray, B. (2007, October). Integrating acoustic cues to phonetic features: A computational approach to cue weighting. Poster presented at *Where Do Features Come From? Phonological Primitives in the Brain, the Mouth, and the Ear*. Paris, France.
- 2007 Toscano, J.C. & McMurray, B. (2007, March). Taking statistical learning to the next level: A computational approach to the acquisition of multi-dimensional categories. Poster presented at the *2007 Biennial Meeting of the Society for Research in Child Development*, Boston, MA.
- 2006 Toscano, J.C. & McMurray, B. (2006, October). Acoustic cue integration in natural speech: Empirical and computational results. Paper presented at the *12th Mid-Continental Workshop on Phonology*, University of Iowa, Iowa City, IA.
- 2006 Toscano, J.C. & McMurray, B. (2006, June). A lexical locus for the integration of asynchronous cues to voicing: An investigation with natural stimuli. Poster presented at the *151st Meeting of the Acoustical Society of America*, Providence, RI. (Winner of Best Student Paper in Speech Communication—1st Prize)
- 2006 Dennhardt, J., McMurray, B., Luck, S.J., & Toscano, J.C. (2006, June). Gradient effects of continuous acoustic detail revealed in event-related potentials. Poster presented at the *151st Meeting of the Acoustical Society of America*, Providence, RI.
- 2005 Toscano, J.C. & McMurray, B. (2005, November). Statistical learning, cross-linguistic constraints, and the acquisition of speech categories: a computational approach. Paper presented at the *11th Mid-Continental Workshop on Phonology*, University of Michigan, Ann Arbor, MI.
- 2005 Beutter, B.R., Toscano, J.C., & Stone, L.S. (2005, May). Top-down and bottom-up influences on saccades in a visual search task. Poster presented at the *Annual Meeting of the Vision Sciences Society*, Sarasota, FL.

Research Support

Ongoing

- 2016-2019 Mendel Science Experience Postdoctoral Fellows Program, Villanova University. Role: Post-doc Supervisor.
- 2015-2017 *Mechanisms of speech perception and effects of hearing loss*. NIH Loan Repayment Program, NIDCD. Role: PI.

Completed

- 2015 *Continuous acoustic cues in speech: Implications for language processing models and hearing tests*. Villanova University Summer Research Fellowship and Research Support Grant. Role: PI. Amount: \$12,200.
- 2012–2013 *Neural representation of speech sounds in auditory cortex*. Campus Research Board Award, University of Illinois at Urbana-Champaign. Role: Co-PI. Amount: \$28,960.
- 2011–2014 Beckman Fellowship Research Funding, Beckman Institute for Advanced Science and Technology. Role: PI. Amount: \$25,000.
- 2006–2007 *Listeners' use of multiple acoustic cues in speech*. Research Grant, University of Iowa Student Government. Role: PI. Amount: \$660.

Mentored Students

- 2016 *How long can listeners maintain gradient acoustic information?* Villanova Graduate Student Summer Fellowship. Student: J. Benjamin Falandays.
- 2016 *The role of theta waves in speaking rate compensation*. Villanova Graduate Student Summer Fellowship. Student: David Saltzman.
- 2015 *Enhancing tools for measuring phonetic convergence*. Villanova Graduate Student Summer Fellowship. Student: Tifani Biro.
- 2015 *Bottom-up perceptual processes and short-term chord expectancy*. Villanova Graduate Student Summer Fellowship. Student: Beach Brooks.
- 2015 *Parallel vs. serial processing in language comprehension*. Villanova Graduate Student Summer Fellowship. Student: Emma Folk.

Media and Outreach

- 2016 Flame Challenge Top 25 Submission, *What is Sound?* Alan Alda Center for Communicat-ing Science. Entry submitted with Neil Bardhan and Alexandra Tabachnick.

- 2016 USA Science & Engineering Festival, American Institute of Physics/Acoustical Society of America exhibit.
- 2015 *Speech recognition in a noisy world*. Presentation for Villanova Psi Chi.
- 2015 Quoted in *New York Times* article, “The white and gold (no, blue and black!) dress that melted the Internet.”
- 2012 *Understanding speech: Human perception and machine recognition*. Presentation for Cham-bana Science Café.
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Teaching

Instructor (Villanova Univ.)

	Course	Students	Advisees (UG)	Advisees (Grad)
Fa 2016	MSE 2701: Sounds of Human Lang (Lab)	20	30	5
	PSY 5250: Contemporary Issues in Psych	12		
Sp 2016	PSY 3300: Perception	35	29	4
	PSY 5250: Contemporary Issues in Psych	15		
Fa 2015	MSE 2701: Sounds of Human Lang (Lab)	21	21	4
	PSY 5250: Contemporary Issues in Psych	9		
Sp 2015	PSY 1000: General Psychology	63	7	0
	PSY 8200: Perception (Graduate)	11		
Fa 2014	PSY 1000: General Psychology	70	0	0

Instructor (Univ. of Iowa)

	Course	Students
Fa 2008	031:014 Intro to Developmental Science	25
Su 2008	031:043 Evaluating Psych Research (Methods course)	30
Su 2006	031:043 Evaluating Psych Research (Methods course)	33

Graduate Teaching Assistant (Univ. of Iowa)

	Course	Students
Sp 2011	031:010 Research Methods	44
Fa 2010	031:016 Introduction to Cognitive Psychology	123
Sp 2010	031:010 Research Methods	58
Fa 2007	031:001 Elementary Psychology	120
Fa 2006	031:121 Experimental Psychology II (Lab)	23

Student Supervision

	Student	Project	Outcome
2015-	J. Benjamin Falandays	M.S. Thesis, "How long can listeners maintain gradient acoustic information?"	In progress
2014-	Beach Brooks	M.S. Thesis, "Bottom-up perceptual processes and short-term chord expectancy"	In progress
2014-2016	Tifani Biro	M.S. Thesis, "Enhancing tools for measuring phonetic convergence"	M.S. (Ph.D. student at U. Kansas with Navin Viswanathan)
2014-2016	Emma Folk	M.S. Thesis, "Parallel vs. serial processing in language comprehension"	M.S. (Ph.D. student at Indiana U. with Tessa Bent)
2014-2016	David Saltzman	M.S. Thesis, "The role of the speech envelope in speaking rate compensation"	M.S. (Lab Manager at U. Conn. for Emily Myers)
2014-2016	Alexandra Tabachnick	Graduate Independent Research, "Frequency sensitivity of auditory brainstem responses"	M.S. (Ph.D. student at U. Delaware with Mary Dozier)
2014-2015	Taylor Curley	Graduate Independent Research, "Statistical learning of English vowel categories"	M.S. (Ph.D. student at GA Tech with Chris Hertzog)
2013-2014	Michael Hudgins	Senior Thesis (UIUC), "Effects of disfluent speech on attention to subsequent speech: Evidence from event-related potentials"	B.S. (Research Assistant for Karen Kirk)

2012-2014	Alexander Senetar	Senior Thesis (UIUC), "Electrophysiological responses to differences in speaking rate"; poster presented at <i>2014 American Medical Student Association Annual Convention</i>	B.S. (Medical school after graduating)
2012-2014	Paoula Dyanova	Senior Thesis (UIUC), "Comparison of category boundaries of speech and non-speech sounds"	B.S.
2012-2013	Bhavika Patel	Senior Thesis (UIUC), "Disfluencies in speech: Effects of fillers on attention"	B.S. (Ph.D. student at IA State)
2012	Stephanie Lutz	Senior Thesis (UIUC), "Listening to the silence: Effects of variation in silent intervals on listeners' perception of speech"	B.S.
2010-2011	Lisa Vangsness	Independent Research (Iowa), "Neural evidence for gradient speech perception: Auditory N1 and P3 responses to stop consonants and vowels"	B.S. (Ph.D. student at KS State with Michael Young)

Service

College (Villanova Univ.)

- 2015- Faculty Committee, Cognitive Science Program
- 2014-2015 Cluster Computing Task Force

Department (Villanova Univ.)

- 2015- Committee Member, Ph.D. Proposal Task Force
- 2015- Faculty Advisor, Undergraduate Psychology/CBN Club
- 2015- Committee Member, Cog. & Behavioral Neuro. Undergrad. Advisory Committee
- 2015- Committee Member, Psychology Undergraduate Advisory Committee
- various years Colloquium Committee (2014, 2016)
- 2014-2015 Committee Member, Website Revision Committee

Department (Univ. of Iowa)

- 2007-2009 Graduate Resources Committee
- 2006-2007 Faculty Meeting Representative

Grant Panels

2016 NSF Panelist

Ad-hoc Reviews (Journals)

2016 *Journal of the Acoustical Society of America*
Journal of Experimental Psychology: General
Journal of Phonetics
Psychonomic Bulletin & Review

2015 *Attention, Perception, & Psychophysics* (3)
Cognition
Journal of the Acoustical Society of America (2)
Journal of Experimental Psychology: General
Journal of Phonetics
Laboratory Phonology (2)
Language and Speech

2014 *Attention, Perception, & Psychophysics*
Cognition
Journal of Phonetics
Journal of Memory and Language
Journal of the Acoustical Society of America
Journal of Speech, Language, and Hearing Research
Language, Cognition, and Neuroscience
Language Learning
Psychonomic Bulletin & Review

2013 *Attention, Perception, & Psychophysics*
Cognition
Cognitive Science
Journal of Phonetics
Quarterly Journal of Experimental Psychology

2012 *Attention, Perception, & Psychophysics*
Brain and Language
Clinical Neurophysiology (2)
Laboratory Phonology (2)
Language and Cognitive Processes (2)
Language & Speech
Psychonomic Bulletin & Review (2)
Quarterly Journal of Experimental Psychology

2011 *Clinical Neurophysiology*

2010 *Cognitive Science*

Ad-hoc Reviews (Funding Agencies)

- 2016 NSF, Division of Behavioral and Cognitive Sciences (Linguistics)
- 2013 NSF, Division of Behavioral and Cognitive Sciences (Linguistics)
- 2012 NSF, Division of Behavioral and Cognitive Sciences (Linguistics)
- 2011 NSF, Division of Behavioral and Cognitive Sciences (Cognitive Neuroscience)

Ad-hoc Reviews (Conferences)

- 2016 CogSci 2016 (3)
- 2013 CogSci 2013 (3)
- 2011 CogSci 2011 (3)

Ad-hoc Reviews (Book Chapters)

- 2006 Chapter in J.P. Spencer, M. Thomas, & J. McClelland (Eds.), *Toward a Unified Theory of Development: Connectionism and Dynamic Systems Theory Re-Considered*.

Conference Organization

- 2015 Program Committee, Graduate Student Symposium on Literature and Psychology, Department of Romance Languages and Literatures, Villanova University
- 2015 Program Committee, CogSci 2015
- 2006 Co-organizer, 12th Midcontinental Workshop on Phonology, University of Iowa

Other Professional Service

- 2012-2014 Co-founder and Organizer, Chambana Science Café
- 2006- Maintainer, Praat Script Archives website (<https://sites.google.com/site/praatscripts/>)