

Matthew G. Wisniewski – Curriculum Vitae

(last updated 8/31/2018)

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DOB: May 19th, 1984

Education

Ph.D. in Cognitive Psychology; 2013

University at Buffalo, The State University of New York; Supervisor: Eduardo Mercado III

B.A. in Psychology; 2007

University at Buffalo, The State University of New York

Positions

Current

Assistant Professor (August 2018 -)

Psychological Sciences, Kansas State University, Manhattan, KS

Long-term

Postdoctoral Research Psychologist (June 2013 – July 2018)

Battlespace Acoustics, 711th Human Performance Wing, Air Force Research Laboratory, Wright-Patterson Air Force Base, OH; Supervisors: Nandini Iyer, Brian D. Simpson

Visiting / Short-term

Visiting Faculty (January 2017 – May 2017)

Department of Psychology, University of Richmond, VA

Visiting Postdoctoral Researcher (Summer 2015)

Auditory Cognition Research Unit, Max Planck Institute for Human and Cognitive Brain Sciences, Leipzig, Germany; Supervisor: Jonas Obleser

Visiting Graduate Student Researcher (Summer: 2009, 2010, 2011, 2012)

Swartz Center for Computational Neuroscience, Institute for Neural Computation, University of California, San Diego; Supervisor: Scott Makeig

Adjunct Faculty (August 2012 – December 2012)

Department of Animal Behavior, Ecology, & Conservation, Canisius College, Buffalo, NY

Adjunct Faculty (June 2012 – December 2012)

Department of Psychology, University at Buffalo, The State University of New York, Buffalo, NY

* invited talk, † invited paper, ! mentored undergraduate co-author, ^ mentored graduate co-author

Theses

- Ph.D. – “Generalization in Auditory Perceptual Learning: Experimental and Theoretical Perspectives”
- Pre-dissertation – “Learning-related Shifts in Generalization Gradients for Complex Sounds”

Awards

- Oak Ridge Institute for Science and Education Internship (2013; 2015-2016)
- Bugelski Award for excellence in dissertation research (2012)
- Griffith Award for best student paper at annual Southern Society for Philosophy & Psychology meeting (2012)
- Rice Award for early career excellence in research (2011)
- Southern Society for Philosophy & Psychology Student Travel Award (2010)

Grants

- U.S. Air Force Chief Scientist’s Office Seedling Grant awarded to **Wisniewski, M.G.**, Iyer, N., and Simpson, B.D. (2017). “Sensing pre-stimulus electroencephalogram features for the purpose of effective human-machine interaction” (\$100,000)
- National Research Council fellowship awarded to **Wisniewski, M.G.** (2013-2015). “Electrophysiological correlates of listening and learning” (\$154,000); *Contract#* FA9550-12-D-0001
- University at Buffalo Mark Diamond Grant to **Wisniewski, M.G.** (2012-2013) “Auditory perceptual learning and generalization” (\$1875)
- NSF Science of Learning Center funded small grants to **Wisniewski, M.G.** (2009-2013) “Human and nonhuman learning and generalization” (\$4000)
- NSF Science of Learning Center funded small grant to Liu, E.H., & **Wisniewski, M.G.** (2010-2011) “Age-related differences in auditory perceptual learning” (\$1500)

Refereed Publications

- 23) **Wisniewski, M.G.**, Iyer, N., Thompson, E.R., & Simpson, B.D. (2018). Sustained frontal midline theta enhancements during effortful listening track working memory demands. *Hearing Research*, 358, 37-41.
- 22) **Wisniewski, M.G.**, Thompson, E.R., & Iyer, N. (2017). Theta- (4-8 Hz) and alpha-power (8-13 Hz) enhancements in the electroencephalogram as an auditory delayed match-to-sample task becomes impossibly difficult. *Psychophysiology*, 54, 1916-1928.
- 21) ^Ball, N.J., **Wisniewski, M.G.**, Zakrzewski, A.C., Seccia, A., Iyer, N., Simpson, B.D., Thompson, E.R., & Spencer, N. (2017). Learning-related improvements in auditory detection sensitivities correlate with neural changes observable during active and passive processing of sounds. *Proceedings of Meetings on Acoustics*, 30, 050012.
- 20) Mercado, E., III, **Wisniewski, M.G.**, Macintosh, B., Guillette, L.M., Hahn, A.H., & Sturdy, C.B. (2017). Chickadee songs provide hidden clues to singers’ locations. *Animal Behavior and Cognition*, 4, 301-303.
- 19) **Wisniewski, M.G.**, Radell, M.L., Church, B.A., & Mercado, E., III (2017). Benefits of fading in perceptual learning are driven by more than dimensional attention. *PLoS ONE*, 12, e0180959.
- 18) **Wisniewski, M.G.** (2017). Predicting favorable and unfavorable consequences of perceptual learning: worsening and the peak shift. *Experimental Brain Research*, 235, 1233-1245.
- 17) **Wisniewski, M.G.** (2017). Indices of effortful listening can be mined from existing electroencephalographic data. *Ear & Hearing*, 38, e69-e73.

* invited talk, † invited paper, ! mentored undergraduate co-author, ^ mentored graduate co-author

- 16) **Wisniewski, M.G.**, Romigh, G.R., Kenzig[!], S.M., Iyer, N., Simpson, B.D., Thompson, E.R., & Rothwell, C. (2016). Enhanced auditory spatial performance using individualized head-related transfer functions: an event-related potential study. *Journal of the Acoustical Society of America*, *140*, EL539-EL544.
- 15) **Wisniewski, M.G.**, Thomspon, E.R., Iyer, N., Estepp, J.R., Goder-Reiser[!], M., & Sullivan, S. (2015). Frontal midline θ power as an index of listening effort. *NeuroReport*, *26*, 94-99.
- 14) **Wisniewski, M.G.**, Mercado, E., III, Church, B.A., Gramann, K., & Makeig, S. (2014). Brain dynamics that correlate with effects of learning on auditory distance perception. *Frontiers in Neuroscience*, *8*, 396.
- 13) [‡]**Wisniewski, M.G.**, Church, B.A., & Mercado, E., III (2014). Individual differences in acquisition predict dynamics of generalization. *Behavioural Processes*, *104*, 26-34.
- 12) DeLong, C.M., Heberle, A.L., **Wisniewski, M.G.**, & Mercado, E., III (2014). The ability to recognize objects from dolphin (*Tursiops Truncatus*) echoes generalizes across multiple orientations in humans and neural networks. *Animal Cognition*, *17*, 543-557.
- 11) **Wisniewski, M.G.**, Liu, E.H., Church, B.A., & Mercado, E., III (2014). Learning to discriminate frequency modulation rate can benefit and worsen pitch acuity. *Journal of the Acoustical Society of America*, *135*, EL55-EL60.
- 10) Church, B.A., Mercado, E., III, **Wisniewski, M.G.**, & Liu, E.H. (2013). Temporal dynamics in auditory perceptual learning: Impact of sequencing and incidental learning. *Journal of Experimental Psychology: Learning, Memory, & Cognition*, *39*, 270-276.
- 9) **Wisniewski, M.G.**, Mantell, J.T., & Pfordresher, P.Q. (2013). Transfer effects in the vocal imitation of speech and song. *Psychomusicology: Music, Mind, & Brain*, *23*, 82-99.
- 8) Mercado, E., III, **Wisniewski, M.G.**, McIntosh, B., Guillette, L.M., & Sturdy, C.B. (2013). Reverberlocation in chickadees? *Proceedings of Meetings on Acoustics*, *19*, 010043.
- 7) [‡]**Wisniewski, M.G.**, DeLong, C.M., Heberle, A.L., & Mercado, E., III (2013). Exploring the capacity of neural networks to recognize objects from dolphin echoes across multiple orientations. *Proceedings of Meetings on Acoustics*, *19*, 010035.
- 6) **Wisniewski, M.G.**, Bartone, A., Coutinho, M.V.C, Hastrup, J., Simms, L.J., & Geer, M. (2013). How soon they forget: Changes to beliefs after learning about tobacco. *Psychology, Health, & Medicine*, *18*, 552-557.
- 5) **Wisniewski, M.G.**, Mercado, E., III, Gramann, K., & Makeig, S. (2012). Familiarity with speech affects cortical processing of auditory distance cues and increases acuity. *PLoS ONE*, *7*, e41025.
- 4) **Wisniewski, M.G.**, Radell, M.L, Guillette, L.M., Sturdy, C.B., & Mercado, E., III (2012). Predicting shifts in generalization gradients with perceptrons. *Learning & Behavior*, *40*, 128-144.
- 3) **Wisniewski, M.G.**, Guillette, L.M., Radell, M.L., Sturdy, C.B., Mercado, E., III (2011). Simulating the temporal dynamics of learning-related shifts in generalization with a single-layer perceptron. In L. Carlson, C. Hölscher, & T. Shipley (Eds.), *Proceedings of the 33rd Annual Conference of the Cognitive Science Society*. Boston, MA: Cognitive Science Society.
- 2) **Wisniewski, M.G.**, Church, B.A., & Mercado, E., III (2010). Temporal dynamics of generalization and representational distortion. *Psychonomic Bulletin & Review*, *17*, 809-814.
- 1) **Wisniewski, M.G.**, Church, B.A., & Mercado, E, III (2009). Learning-related shifts in generalization gradients for complex sounds. *Learning & Behavior*, *37*, 325-335.

* invited talk, ‡ invited paper, ! mentored undergraduate co-author, ^ mentored graduate co-author

Manuscripts in Progress

- [^]Ball, N.J., **Wisniewski, M.G.**, Iyer, N., & Simpson, B.D. (submitted). Deafness to space and identity change in auditory scenes: an event-related potential study.
- Zakrzewski, A.C., **Wisniewski, M.G.**, Iyer, N., & Simpson, B.D. (submitted). Confidence ratings parallel exogenous and endogenous components of the event-related potential in an auditory detection task.
- Zakrzewski, A.C., Williams, H.L., **Wisniewski, M.G.**, & Berry, J.M. (submitted). Artificial neural networks reveal individual differences in associative memory and metacognition.
- Wisniewski, M.G.**, Church, B.A., & Mercado, E., III (in preparation). Benefits of fading depend on the degree to which initial trials are “easy”.
- [^]Hansen, N.E., Iyer, N., Simpson, B.D., Harel, A., & **Wisniewski, M.G.** (submitted). The phase of spontaneous EEG oscillations predicts auditory pattern identification.

Talks

- Wisniewski, M.G.** (April, 2018). Perspectives on listening effort from the electroencephalogram (EEG). *Paper presented at the 2018 Collaborative Auditory Vestibular Research Network (CAVRN) Meeting, Wright-Patterson AFB, OH.*
- Wisniewski, M.G.**, Hansen, N.E., Iyer, N., Simpson, B.D., & Harel, A. (February, 2018). The phase of pre-stimulus ~6-10 Hz EEG oscillations predicts auditory pattern recognition performance. *Paper presented at the 41st Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA.*
- Ball, N.J., **Wisniewski, M.G.**, Iyer, N., & Simpson, B.D. (November, 2017). Deafness to space and identity change in auditory scenes: an event-related potential study. *Paper presented at the 16th Annual Auditory Perception, Cognition, and Action Meeting, Vancouver, Canada.*
- Wisniewski, M.G.**, Radell, M.R., Church, B.A., & Mercado, E., III (March, 2017). Benefits of fading in perceptual learning are driven by more than dimensional attention. *Paper presented at the 2017 Meeting of the Southern Society for Philosophy and Psychology, Savannah, GA.*
- ***Wisniewski, M.G.** (various months, 2017). Brain dynamics associated with effortful listening and experience-related effects on auditory perception. *Invited paper presented at Kansas State University, Utah State University, Iowa State University, & University of North Carolina, Charlotte.*
- ***Wisniewski, M.G.** (April, 2015). Cortical dynamics during listening. *Paper presented at the 711th Human Performance Wing external tech review, Wright-Patterson Air Force Base, OH.*
- ***Wisniewski, M.G.** (March, 2015). Electroencephalographic markers of a listening brain: Effort, performance, and trial-by-trial variability. *Paper presented at the 711th Human Performance Wing Applied Neuroergonomics Branch Call, Wright-Patterson Air Force Base, OH.*
- Wisniewski, M.G.** (November, 2014). The Frontal Midline θ rhythm as a psychophysiological index of listening effort. *Paper presented at the 13th Annual Auditory Perception, Cognition, and Action Meeting, Long Beach, CA.*
- Wisniewski, M.G.**, Mercado, E., III, & Church, B.A. (November, 2013). Generalization of auditory learning to an untrained dimension. *Paper presented at the 54th Annual Meeting of the Psychonomic Society, Toronto, ON.*
- Mercado, E., III, **Wisniewski, M.G.**, McIntosh, B., Guillette, L.M., & Sturdy, C.B. (November, 2013). Can chickadees use echoes to coordinate their actions? *Fall Meeting of the Comparative Cognition Society, Toronto, ON*

* invited talk, † invited paper, ! mentored undergraduate co-author, ^ mentored graduate co-author

- ***Wisniewski, M.G.** (October, 2013). Learning-related generalization shifts: Experimental and theoretical perspectives. *Presented at the AFRL Cognitive Modeling Brown Bag, Dayton, OH.*
- ***Wisniewski, M.G.**, DeLong, C.M., Heberle, A.L., Mercado, E., III (June, 2013). Exploring the capacity of neural networks to recognize objects from dolphin echoes across multiple orientations. *Paper presented at the 2013 International Congress on Acoustics, Montreal, CA.*
- ***Wisniewski, M.G.**, Mercado, E., III, & Church, B.A. (May, 2013). Predicting individual differences in learning-related generalization shifts. *Paper presented at the Society for the Quantitative Analysis of Behavior, Minneapolis, MN.*
- Mercado, E., III, **Wisniewski, M.G.**, McIntosh, B., Guillette, L.M., & Sturdy, C.B. (March, 2013). Chickadees may use passive echolocation to monitor singers' positions. *Presented to area of Ecology, Evolution, & Behavior, Buffalo, NY.*
- ***Wisniewski, M.G.** (January, 2013). EEG correlates of auditory learning: Past and proposed research. *Paper presented at the Air Force Research Laboratory, Dayton, OH.*
- Jarinska, K., **Wisniewski, M.G.** (August, 2012). Modeling and Analysis: The Ziggerans Project. *Paper presented at the TDLC Summer Fellows Institute, San Diego, CA.*
- Wisniewski, M.G.** (August, 2012). Caricature-like effects in the auditory modality: A computational model of dynamic representation. *Paper presented at the TDLC Summer Fellows Institute, San Diego, CA.*
- ***Wisniewski, M.G.** (June, 2012). A case for representational reorganization in learning about sounds on a continuum. *Paper presented at the SUNY Buffalo Behavioral and Brain Sciences Symposium, Buffalo, NY.*
- Wisniewski, M.G.**, Church, B.A., & Mercado, E., III (March, 2012). Individual learning proficiencies predict dynamics of shifts in generalization. *Paper presented at the 104th Annual Meeting of the Southern Society for Philosophy and Psychology, Savannah, GA.*
- Wisniewski, M.G.** (January, 2012). Learning-related shifts in generalization. *Paper presented at the TDLC fellow retreat, San Diego, CA.*
- Wisniewski, M.G.**, Gramann, K., Mercado, E., III, & Makeig, S. (November, 2011). Familiarity with speech affects cortical processing of auditory distance cues and increases acuity. *Paper presented at the 10th annual Auditory, Perception, Cognition, & Action Meeting, Seattle, WA.*
- Wisniewski, M.G.**, Church, B.A., Liu, E.H., & Mercado, E., III (March, 2011). Using progressive training to facilitate perceptual learning. *Paper presented at the 4th Annual Inter-Science of learning Center (iSLC) Student and Post-Doc Conference, Washington, D.C.*
- Mercado, E., III, & **Wisniewski, M.G.** (January, 2011). Temporal dynamics of learning-related shifts in generalization. *Paper presented at the 2011 All Hands Meeting of the TDLC, San Diego, CA.*
- Wisniewski, M.G.**, Church, B.A., & Mercado, E., III (March, 2010). Temporal dynamics of peak shifts in generalization. *Paper presented at the 102nd Annual Meeting of the Southern Society for Philosophy and Psychology, Atlanta, GA.*
- Wisniewski, M.G.** (August, 2008). Progressive training and the spacing effect. *Paper presented at the retreat for sensory-motor and interactive memory systems networks of the Temporal Dynamics of Learning Center, Monterey, CA.*

* invited talk, † invited paper, ! mentored undergraduate co-author, ^ mentored graduate co-author

Posters

- Hansen, N., **Wisniewski, M.G.**, Iyer, N., Simpson, B.D., & Harel, A. (May, 2018). The phase of pre-stimulus EEG oscillations predicts auditory pattern recognition performance. *Paper presented at the 2nd Annual Neuroergonomics Conference, Philadelphia, PA.*
- Hansen, N., **Wisniewski, M.G.**, Iyer, N., Simpson, B.D., & Harel, A. (September, 2017). Do oscillatory dynamics of pre-stimulus EEG predict trial-by-trial fluctuations in auditory pattern identification? *Paper presented at the 6th International Conference on Auditory Cortex, Banff, Canada.*
- Ball, N.J., **Wisniewski, M.G.**, Zakrzewski, A.C., Seccia, A., Iyer, N., Simpson, B.D., Thompson, E.R., & Spencer, N. (June, 2017). Learning-related improvements in auditory detection sensitivities correlate with changes in sensory- and decision-related components of the event-related potential. *Paper presented at the 173rd Meeting of the Acoustical Society of America, Boston, MA.*
- Zakrzewski, A.C., **Wisniewski, M.G.**, Iyer, N., & Simpson, B.D. (February, 2017). Metacognitive judgments track sensory- and decision-related components of the event-related potential during auditory detection. *Paper to be presented at the 40th Annual Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD.*
- Spencer, N.J., Thompson, E.R., **Wisniewski, M.G.**, Simpson, B.D., & Iyer, N. (November, 2016). Auditory training and subsequent generalization with speech and non-speech stimuli. *Paper presented at the 5th joint meeting of the Acoustical Society of America and Acoustical Society of Japan, Honolulu, Hawaii.*
- Wisniewski, M.G.**, Romigh, G.R., Kenzig, S.M., Iyer, N., Simpson, B.D., Thompson, E.R., & Rothwell, C.D. (May, 2016). Enhanced auditory spatial performance using individualized head-related transfer functions: an event-related potential study. *Paper presented at the 171st meeting of the Acoustical Society of America, Salt Lake City, UT.*
- Wisniewski, M.G.** (November, 2015). Sustained theta (4-7 Hz) and alpha (8-12 Hz) synchronization in the electroencephalogram during auditory processing: Effects of listening difficulty. *Paper presented at the 14th Annual Auditory Perception, Cognition, and Action Meeting, Chicago, IL.*
- Wisniewski, M.G.** (June, 2015). Electroencephalographic features during listening: Effort, performance, and trial-to-trial variability. *Paper presented at the 3rd Annual Cognitive Hearing Science of Communication Conference, Linköping, Sweden.*
- Thompson, E.R., **Wisniewski, M.G.**, Iyer, N., & Simpson, B.D. (May, 2015). Duration and transition effects in multiple-burst, multitone masking. *Paper presented at the 169th Meeting of the Acoustical Society of America, Pittsburgh, PA.*
- Wisniewski, M.G.** (February, 2015). Psychophysiological correlates of “listening effort” in theta-band EEG. *Paper presented at the 38th Annual Mid-Winter Meeting of the Association for Research in Otolaryngology, Baltimore, MD.*
- Wisniewski, M.G.** (May, 2014). Frontal midline EEG dynamics as a potential index of listening effort. *Poster presented at the 4th Annual Midwestern Cognitive Science Conference, Dayton, OH.*
- Wisniewski, M.G.**, Thompson, E.R., Iyer, N., Simpson, B.D., & Sullivan, S.C. (February, 2014). Oscillatory dynamics of EEG correlate with build-up in an informational masking task. *Paper presented at the 37th Annual Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA.*
- Mercado, E., III, **Wisniewski, M.G.**, McIntosh, B., Guillette, L.M., & Sturdy, C.B. (October, 2013). Analyzing chickadee songs as a series. *Paper presented at National Institute for Mathematical and Biological Syntheses Investigative Workshop, Knoxville, TN.*

* invited talk, ‡ invited paper, ! mentored undergraduate co-author, ^ mentored graduate co-author

- Wisniewski, M.G.**, Mercado, E., III, & Church, B.A. (November, 2012). Variations in learning trajectories predict generalization. *Poster presented at the 53rd Annual Meeting of the Psychonomic Society, Minneapolis, MN*
- Wisniewski, M.G.**, Church, B.A., & Mercado, E., III (November, 2012). Auditory learning-related shifts in generalization: A case for distortions of representation. *Poster presented at the 11th Annual Auditory Perception, Cognition, & Action Meeting, Minneapolis, MN.*
- Wisniewski, M.G.** (April, 2012). Predicting Individual differences in generalization. *Poster presented at the 5th Annual Inter-Science of learning Center (iSLC) Student and Post-Doc Conference, San Diego, CA.*
- Wisniewski, M.G.**, Mercado, E., III, & Church, B.A. (January, 2012). Individual differences in acquisition predict dynamics of generalization in humans and artificial neural networks. *Poster presented at the Annual All-Hands Meeting of the Temporal Dynamics of Learning Center, San Diego, CA.*
- Wisniewski, M.G.**, Mantell, J.T., Pfordresher, P.Q. (August, 2011). Transfer effects in the vocal imitation of speech and song. *Poster presented at the Society for Music Perception and Cognition conference, Rochester, NY.*
- Wisniewski, M.G.**, Guillette, L.M., Radell, M.L, Sturdy, C.B., & Mercado, E., III (July, 2011). Simulating the temporal dynamics of learning-related shifts with a single-layer perceptron. *Poster presented at the 33rd Annual Conference of the Cognitive Science Society. Boston, MA.*
- Liu, E. H., **Wisniewski, M. G.**, Church, B. A., & Mercado, E., III (March, 2011). Auditory perceptual learning through training on a task-irrelevant dimension. *Poster presented at the 4th Annual Inter-Science of learning Center (iSLC) Student and Post-Doc Conference, Washington, DC.*
- Wisniewski, M.G.**, Church, B.A., & Mercado, E., III (December, 2010). Auditory peak shift. *Poster presented at the Annual Science of Learning Centers PI Meeting, Washington, DC.*
- Liu, E. H., **Wisniewski, M. G.**, Church, B. A., & Mercado, E., III (November, 2010). Auditory perceptual learning through training on a task-irrelevant dimension. *Poster presented at the 51st Annual Meeting of the Psychonomic Society, St. Louis, MO.*
- Wisniewski, M. G.**, Church, B. A., Liu, E. H., & Mercado, E., III (November, 2010). Temporal dynamics of auditory perceptual learning: Impact of progressive order. *Poster presented at the 51st Annual Meeting of the Psychonomic Society, St. Louis, MO.*
- Wisniewski, M. G.**, Church, B. A., Mercado, E., III, & Liu, E. H. (May, 2010). Temporal dynamics in auditory perceptual learning: Impact of order and spacing. *Poster presented at the 3rd Annual Inter-Science of learning Center (iSLC) Student and Post-Doc Conference, Boston, MA.*
- Wisniewski, M.G.**, Gramann, K., Mercado, E., III, & Makeig, S. (January, 2010). EEG dynamics associated with the perceptual learning of auditory distance. *Poster presented at the Annual All-Hands Meeting of the Temporal Dynamics of Learning Center, San Diego, CA.*
- Wisniewski, M.G.**, Church, B.A., Mercado, E., III (November, 2009). Auditory peak shift: The impact of experience. *Poster presented at the 50th Meeting of the Psychonomic Society, Boston, MA.*
- Wisniewski, M.G.**, Bartone, A.S., Hastrup, J.L., Simms, L.J., & Geer, M. (August, 2009). Altering misinformation about tobacco and nicotine among undergraduate students. *Poster presented at the annual convention of the American Psychological Association, Toronto, ON.*
- Wisniewski, M.G.**, Church, B.A., & Mercado, E., III (January, 2009). Long-term memory for peak shift. *Poster presented at the Annual All-Hands Meeting of the Temporal Dynamics of Learning Center, San Diego, CA.*
- Church, B.A., Mercado, E., III, & **Wisniewski, M.G.** (November, 2008). Increased acuity after progressive training: Due to progression or variability? *Poster presented at the 49th Meeting of the Psychonomic Society, Chicago, IL.*

* invited talk, † invited paper, ! mentored undergraduate co-author, ^ mentored graduate co-author

Wisniewski, M.G., Church, B.A., & Mercado, E., III (November, 2008). Peak shift: Is it perceptual learning or a temporary attentional adjustment? *Poster presented at the 49th Meeting of the Psychonomic Society, Chicago, IL*

Service

- Academic Editor for: PLoS ONE
- Ad Hoc Reviewer for:
Journals: Auditory Perception & Cognition, Behavioral Neuroscience, Behavioural Brain Research, Behavioural Processes, Biological Psychology, Frontiers in Human Neuroscience, Health Education Research, Journal of Neuroscience Research, PLoS ONE, SOJ Psychology, The Psychological Record
Grants: Air Force Office of Scientific Research, NSF Science of Learning Center small grant program, Zayed University (United Arab Emirates) internal grants
Conferences: Cognitive Science Society, Midwestern Cognitive Science Society, inter-Science of Learning Center Meeting, Temporal Dynamics of Learning Center fellow retreat
- NSF inter-Science of Learning Center (iSLC) conference committee (2010 - 2012)
 - Networking Co-Chair (2011-2012)
 - Workshop Co-Chair (2010-2011)
- Temporal Dynamics of Learning Center (TDLC) fellow committee (2010 - 2012)
 - iSLC Co-Chair
 - Retreat Program Organizer
- Consultant on electrophysiological recordings for the Dayton Veterans Administration (VA) Hospital, Audiology Clinic

Courses Taught

- Cognitive Psychology (Kansas State University: Fall, 2018)
- Methods and Analysis (University of Richmond; Spring 2017)
- Memory (University at Buffalo: Fall 2012)
- Animal Cognition (Canisius College: Fall 2012)
- Biology of Memory (University at Buffalo: Spring and Summer 2012)

Advising/Mentoring

- Qualifying Exam Committees:
 - Natalie Hansen (Wright-State University, Dayton, OH)
- Undergraduate Research Project Mentorship
 - Max Goder-Reiser (U.S. Air Force Research Laboratory, WPAFB, OH)
 - Bryeshia Cooper (U.S. Air Force Research Laboratory, WPAFB, OH)
 - Stephanie Kenzig (U.S. Air Force Research Laboratory, WPAFB, OH)
- Graduate Research Mentorship
 - Alexandria Zakrzewski (U.S. Air Force Research Laboratory, WPAFB, OH)
 - Amanda Seccia (U.S. Air Force Research Laboratory, WPAFB, OH)
 - Natalie Ball (U.S. Air Force Research Laboratory, WPAFB, OH)
 - Natalie Hansen (U.S. Air Force Research Laboratory, WPAFB, OH)

Organizational Memberships

- Member of the Psychonomic Society (2013 -)
- Acoustical Society of America (2013 – 2014; 2016-2017)
- Society for the Quantitative Analysis of Behavior (2013 - 2015)
- NSF Temporal Dynamics of Learning Center (TDLC) (2008 – 2013)

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- Southern Society for Philosophy and Psychology (SSPP) (2009 – 2013; 2017)
- NSF inter-Science of Learning Center (iSLC) (2008 – 2013)
- Student Member of Audio Engineering Society (AES) (2009-2011)

Outreach/Volunteer

- High-school visiting lectures on careers in science: Miami Valley Career and Technology Center, Englewood, OH (2017)
- Introducing children to the sport of golf: Miami Valley First Tee Program, Fairborn, OH (2014 - 2016)
- Making Art with Artificial Neural Networks: Red House Performance Space, Syracuse NY (2012)