

## Jessica Nave-Blodgett, Ph.D.

Scientist | Human Factors  
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### Professional Profile

Dr. Nave-Blodgett specializes in the study of human sensation and perception, attention, cognition, auditory processing. She has a background in cognitive and developmental psychology investigating how infants, children, adolescents, and adults perceive, understand, and attend to events in their auditory environment. At Exponent, she applies her expertise in perception, attention, and cognition to investigate human factors in pedestrian and transportation accidents and injuries, consumer product use, and communication of risk and compliance with warnings. Dr. Nave-Blodgett has experience designing, executing, and analyzing studies that compare how information is perceived across different age groups ranging from young childhood to adulthood. Her expertise in research and experimental design is complemented by her ability to effectively communicate complex scientific concepts and knowledge to a wide variety of professional and community audiences.

Prior to joining Exponent, Dr. Nave-Blodgett completed her Ph.D. in Experimental Psychology at the University of Nevada, Las Vegas. Her graduate work ranged from the perception of time and structure in music, the development of musical beat perception, the influence of expertise on auditory and visual perception, to the influence on cultural background on music and speech perception and production. She also collaborated on studies of auditory perception that examined individual differences in the ability to perceptually separate multiple sound sources in a confusing environment, and individuals' ability (or inability) to identify changes in complex auditory environments.

### Academic Credentials & Professional Honors

Ph.D., Psychology, University of Nevada, Las Vegas, 2020

M.A., Psychology, University of Nevada, Las Vegas, 2016

B.A., Psychology, University of Maryland, Baltimore County, 2012

B.A., Music Theory/Composition, McDaniel College, 2006

### Academic Appointments

Graduate Instructor of Record, Introduction to Psychology, University of Nevada, Las Vegas, 2015-2017

### Prior Experience

Lab Manager, Auditory Cognitive Development Lab, University of Nevada, Las Vegas, 2015-2020

## Professional Affiliations

Human Factors and Ergonomics Society

Acoustical Society of America

Society for Research in Child Development

Association for Psychological Science

The Psychonomic Society

Society for Music Perception

## Publications

Nave-Blodgett JE, Snyder JS, Hannon EE. Hierarchical beat perception develops throughout childhood and adolescence and is enhanced in those with musical training. *Journal of Experimental Psychology: General* 2021; 150(2): 314-339. DOI: <https://doi.org/10.1037/xge0000903>

Hannon EE, Nave-Blodgett JE, Nave KM. The Developmental Origins of the Perception and Production of Musical Rhythm. *Child Development Perspectives* 2018; 12(3): 194-198. DOI: <https://doi.org/10.1111/cdep.12285>

Hannon EE, Schachner AD, Nave-Blodgett JE. Babies know bad dancing when they see it: Older but not younger infants discriminate between synchronous and asynchronous audiovisual musical displays. *Journal of Experimental Child Psychology* 2017; 159: 159-174. DOI: <https://doi.org/10.1016/j.jecp.2017.01.006>

Provine RR, Cabrera MO, Nave-Blodgett J. Red, yellow, and super-white sclera: Uniquely human cues for healthiness, attractiveness, and age. *Human Nature* 2013; 24(2): 126-136. DOI: <https://doi.org/10.1007/s12110-013-9168-x>

Provine RR, Cabrera MO, Nave-Blodgett J. Binocular symmetry/asymmetry of scleral redness as a cue for sadness, healthiness, and attractiveness in humans. *Evolutionary Psychology* 2013, 11(4): 873-884. DOI: <https://doi.org/10.1177%2F147470491301100411>

Provine RR, Nave-Blodgett J, Cabrera MO. (2013) The emotional eye: Red sclera as a uniquely human cue of emotion. *Ethology* 2013; 119: 993-998. DOI: <https://doi.org/10.1111/eth.12144>

## Presentations

Snyder JS, Nave-Blodgett JE, Nave KM, Hannon EE. Musical beat and meter perception in western children and young adults. Podium presentation, New England Sequencing and Timing Conference, online, April 2021.

Leslie, JW, Nave-Blodgett JE, Hegde S, Ogunlade O, Soley G, Hannon EE. Development of cultural familiarity influences perception of tempo. Poster presentation, 19th annual Auditory Perception, Cognition, and Action Meeting (APCAM), online, November 2020.

Monjaras AG, Higgins NC, Yerkes BD, Little DF, Nave-Blodgett JE, Elhiali M, Snyder JS. Resetting of auditory and visual segregation occurs only after transient stimuli of the same modality. Poster presentation, 43rd Midwinter Meeting of the Association for Research in Otolaryngology, San Jose, CA, January 2020.

Leslie JW, Nave-Blodgett JE, Hannon EE. American listeners perceive culturally unfamiliar music as faster than culturally familiar music, regardless of actual tempo. Poster presentation, Biennial Meeting of the Society for Music Perception & Cognition, New York, NY, August 2019.

Nave-Blodgett JE, Snyder JS, Hannon EE. Finding common time: Sensitivity to the beat in culturally familiar and unfamiliar music is related to speech segmentation ability. Podium presentation, Biennial Meeting of the Society for Music Perception and Cognition, New York, NY, August 2019.

Nave-Blodgett JE, Snyder JS, Hannon EE. Influences of cultural familiarity and metrical complexity on sensitivity to musical meter. Poster presentation, 17th Rhythm Perception & Production Workshop, Traverse City, MI, June 2019.

Nave-Blodgett JE, Leslie JW, Hannon EE. American listeners perceive culturally unfamiliar music as faster than culturally familiar music, regardless of actual tempo. Podium presentation, New England Sequencing and Timing Conference, Storrs, CT, April 2019.

Higgins NC, Yerkes BD, Little DF, Nave-Blodgett JE, Elhilali M, Snyder JS. Modality-specific resetting of segregation during bistable perception of auditory streams. Poster presentation, 42nd MidWinter Meeting of the Association for Research in Otolaryngology, Baltimore, MD, February 2019.

Nave-Blodgett JE, Oswinn LD, Hannon EE. Finding the common time: Similarities and differences in the temporal aspects of speech and music perception. Podium presentation, New England Sequencing and Timing Conference, Storrs, CT, April 2018.

Nave-Blodgett JE, Hannon EE, Snyder JS. The Development of hierarchical beat perception: Effects of age on perception of musical meter. Poster presentation, Annual Mid-Winter Meeting of the Association for Research in Otolaryngology, San Diego, CA, February 2018.

Nave-Blodgett JE, Snyder JS, Hannon EE. The prolonged development of beat and meter perception: Evidence from children, adolescents, and adults. Podium presentation, Biennial Meeting of the Society for Music Perception and Cognition, La Jolla, CA, August 2017.

Leslie JW, Romero A, Nave-Blodgett JE, Hannon EE, Snyder JS. Investigating perception of meter in diverse populations through online testing. Poster presentation, Biennial meeting of the Society for Music Perception and Cognition, La Jolla, CA, August 2017.

Nave-Blodgett JE, Hannon EE, Snyder JS. Acquisition of musical rhythm and beat during childhood. Poster presentation, Biennial Meeting of the Society for Research in Child Development, Austin, TX, April 2017.

Snyder JS, Nave KM, Nave-Blodgett JE, Hannon EE. EEG responses to musical beat induction and detection in adult listeners. Podium presentation, International Society for Behavioral Neuroscience annual meeting, Las Vegas, NV, 2017.

Hannon EE, Nave-Blodgett JE, Nave KM, Snyder JS. The development of beat processing in children. Podium presentation, International Society for Behavioral Neuroscience annual meeting, Las Vegas, NV, 2017.

Nave-Blodgett JE, Snyder JS, Hannon EE. The prolonged development of beat and meter perception: Evidence from children, adolescents, and adults. Podium presentation, New England Sequencing and Timing Conference, Storrs, CT, March 2017.

Hannon EE, Nave-Blodgett JE, Snyder JS. Effects of age and modality on children's perception of musical meter. Poster presentation, 5th Joint Meeting of the Acoustical Society of America and Acoustical Society of Japan, Honolulu, HI, 2016.

Nave-Blodgett JE, Hannon EE, Snyder JS. Auditory and visual beat and meter perception in children. Podium presentation, International Conference on Music Perception and Cognition (ICMPC) 14, San Francisco, CA, July 2016.

Nave-Blodgett JE, Hannon EE, Snyder JS. Perception of auditory and visual disruptions to the beat and meter in music. Poster presentation, International Conference on Music Perception and Cognition (ICMPC) 14, San Francisco, CA, July 2016.

Nave-Blodgett JE, Snyder JS, Hannon EE. Perception of auditory and visual disruptions to the beat and meter in music. Podium presentation, New England Sequencing and Timing Conference, Amherst, MA, March 2016.

Nave-Blodgett JE, Snyder JS, Hannon EE. Perception of auditory and visual disruptions to the beat and meter in music. Poster presentation, Association for Research in Otolaryngology Midwinter Meeting, San Diego, CA, February 2016.

Nave-Blodgett JE, Hannon EE, & Snyder JS. Do people hear multiple levels of metrical hierarchies in music? Podium presentation, Society for Music Perception and Cognition biennial meeting, Nashville, TN, August 2015.

Nave-Blodgett JE, Hannon EE, Snyder JS. Do people hear multiple levels of metrical hierarchies in music? Podium presentation, New England Sequencing and Timing (NEST) Conference, Amherst, MA, March 2015.

Provine RR, Cabrera MO, Spangler S, Nave-Blodgett J, Dorizan S, Kennedy I, Koehler J. When the whites of the eyes are red, yellow and super-white: A uniquely human communication medium. Poster presentation, Society for Neuroscience Annual Meeting, Washington DC, 2011.