

SAMANTHA R. O'CONNELL

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EDUCATION

- 2021 (expected) *Ph.D.*, Psychological and Brain Sciences, University of Nevada, Las Vegas, NV
 Advisor: Joel S. Snyder, Ph.D.
 Dissertation: *How individual musical sophistication shapes musical groove perception*
- 2018 *M.A.*, Psychology, University of Nevada, Las Vegas, NV
 Advisor: Joel S. Snyder, Ph.D.
 Thesis: *Why musical groove makes us move: an electroencephalographic investigation*
- 2011 *B.A.*, Psychology, Northwestern University, Evanston, IL
- 2011 *B.Mus.*, Music Performance, Northwestern University, Evanston, IL
 Instrument: Violin

PUBLICATIONS

- O'Connell, S. R. (2018). Why musical groove makes us move: an electroencephalographic investigation (Order No. 10974299). Available from Dissertations & Theses at University of Nevada Las Vegas; *ProQuest Dissertations & Theses Global*. (2210151304).
- Lenartowicz, A., Simpson, G.V., O'Connell, S.R., & Cohen, M.S. (2015). Measurement of neurophysiological signals of ignoring and attending processes in attention control. *JoVE (Journal of Visualized Experiments)*, (101), e52958.
- Slater, J., Skoe, E., Strait, D. L., O'Connell, S., Thompson, E. C., & Kraus, N. (2015). Longitudinal evidence of improved speech-in-noise perception with group music training. *Behavioral Brain Research*, 291, 244-252.
- Strait, D. L., Slater, J., O'Connell, S., & Kraus, N. (2015). Music training relates to the development of neural mechanisms of selective auditory attention. *Developmental Cognitive Neuroscience*, 12, 94-104.
- Slater, J., Strait, D. L., Skoe, E., O'Connell, S., Thompson, E. C., & Kraus, N. (2014). Longitudinal effects of group music instruction on literacy skills in low-income children. *Plos One*, 9(11), e113383.
- Strait, D. L., O'Connell, S., Parbery-Clark, A., & Kraus, N. (2014). Musicians' enhanced neural differentiation of speech sounds arises early in life: Developmental evidence from ages three to thirty. *Cerebral Cortex*, 24(9), 2512-2521.
- Strait, D. L., Parbery-Clark, A., O'Connell, S., & Kraus, N. (2013). Biological impact of preschool music classes on processing speech in noise. *Developmental Cognitive Neuroscience*, 6, 51-60.
- Tierney, A., Strait, D. L., O'Connell, S., & Kraus, N. (2013). Developmental changes in resting gamma power from age three to adulthood. *Clinical Neurophysiology*, 124(5), 1040-1042.

AWARDS

- 2019-21 UNLV Foundation Board of Trustees Fellowship, University of Nevada, Las Vegas, NV
 2017-20 Summer Doctoral Fellowship, University of Nevada, Las Vegas, NV
 2017-19 Patricia Sastaunik Scholarship, University of Nevada, Las Vegas, NV
 2017 Lovinger Award, Department of Psychology, University of Nevada, Las Vegas, NV
 2015-16 Graduate Recruitment Scholarship, University of Nevada, Las Vegas, NV

PRESENTATIONS

Posters

- Lenartowicz, A., Simpson, G.V., O'Connell, S.R. *, Noah, S.L.M., Head, A.L., Bilder, R.M., McCracken, J.T., Bookheimer, S.Y., Reid, R., Cohen, M.S. (2015). *New EEG measures reveal infra-slow fluctuations in both attending and ignoring in adults with ADHD that provide high accuracy in discriminating ADHD from control.* Society for Neuroscience. McCormick Place, Chicago, IL.
- Strait, D.L., O'Connell, S., Kraus, N. (2012). *Neural discrimination of stop consonants in musician and nonmusician children.* MidWinter Meeting of the Association for Research in Otolaryngology. San Diego, CA.
- O'Connell, S.*, Strait, D.L., Parbery-Clark, A., Kraus, N. (2011). *Musical training promotes development of attention abilities: evidence in children and adults.* Music, Science and Medicine: Frontiers in Biomedical Research and Clinical Applications, New York Academy of Sciences, New York, NY.
- O'Connell, S.*, Strait, D.L., Parbery-Clark, A., Kraus, N. (2011). *Musical training promotes development of attention abilities: evidence in children and adults.* Chicago Area Undergraduate Research Symposium. Museum of Science and Industry, Chicago, IL.

*presenting author

Talks

- Why Musical Groove Makes Us Move: An Electroencephalographic Investigation.* Master's Thesis Defense, Department of Psychology, University of Nevada, Las Vegas, July 31, 2018.
- Why Musical Groove Makes Us Move: An Electroencephalographic Investigation.* Departmental Data Blitz, Department of Psychology, University of Nevada, Las Vegas. April 18, 2018
- Why Music Makes Us Dance: An EEG Investigation.* Department of Psychology, University of Nevada, Las Vegas, November 15, 2016.
- Investigating the Influence of Groove on Motor Excitation and Arousal.* Department of Psychology, University of Nevada, Las Vegas, April 20, 2016

RESEARCH EXPERIENCE

- 2016- Graduate Student Researcher, University of Nevada, Las Vegas, NV
 Auditory Cognitive Neuroscience Laboratory
 Principal Investigator: Joel S. Snyder
- 2013-15 Staff Research Associate II, University of California Los Angeles, CA
 Staglin IMHRO Center for Cognitive Neuroscience
 Principal Investigator: Agatha Lenartowicz, Ph.D.
- 2013-15 Senior Research Associate, Think Now, Inc., San Francisco, CA
 Principal Investigator/CSO: Gregory V. Simpson, Ph.D.
- 2010-13 Research Assistant, Northwestern University, Evanston, IL

- Auditory Neuroscience Laboratory
Principal Investigator: Nina Kraus, Ph.D.
- 2009 Research Assistant, Northwestern University, Evanston, IL
 Institute for Policy Research
 Principal Investigator: Alice Eagly, Ph.D.

TEACHING EXPERIENCE

- 2018-19 Course Instructor, Department of Psychology, University of Nevada, Las Vegas, NV
 Course: General Psychology (Undergraduate), 2 sections per semester, approx.
 25 students per section, in-person instruction
- 2016-17 Teaching Assistant, Department of Psychology, University of Nevada, Las Vegas, NV
 Course: Introduction to Cognitive Neuroscience (Undergraduate), 1 section per
 semester, approx. 25 students per section
- 2016 Teaching Assistant, Department of Psychology, University of Nevada, Las Vegas, NV
 Course: Sensation and Perception (Undergraduate), 1 section, approx. 25 students

ADDITIONAL TRAINING

- 2017 Certification in Responsible Conduct of Research, Department of Psychology, University
 of Nevada, Las Vegas, NV
- 2016 Certification in Non-Invasive Brain Stimulation Method, Department of Biokinesiology
 and Physical Therapy, University of Southern California, Los Angeles, CA
- 2016 ERP Boot Camp, Center for Mind and Brain, University of California, Davis, CA

ASSOCIATIONS

- 2018-19 Member, *American Psychological Association: Society for Teaching of Psychology*
- 2017-19 Member, *Association for Psychological Science*
- 2016- Member, *Society for Music Cognition and Perception*

OUTREACH

- 2019 Instructor, Rebel STEM Academy, University of Nevada, Las Vegas, NV
- 2018 Instructor, Dawson Bound Project, Las Vegas, NV
- 2017 Judge, Beal Bank USA Southern Nevada Regional High School Science & Engineering
 Fair, Las Vegas, Nevada
- 2017 Secretary, 500 Women of Science Las Vegas, NV
- 2016- Mentor, Outreach Undergraduate Mentoring Program, University of Nevada, Las Vegas,
 NV
- 2016 Secretary, Experimental Student Committee, Department of Psychology, University of
 Nevada, Las Vegas, NV

TECHNICAL SKILLS

Programming Languages: Matlab

Human Neuroimaging:

- EEG (cortical and auditory brainstem responses)
Hardware: Biosemi, Neuroscan, Electrical Geodesic, Inc., DuoMag
Software: BESA, Net Station, BrainVision Analyzer, ActiView, EEGlab, ERPlab
- TMS: DuoMAG, Magstim

Stimulus Creation and Presentation: Presentation, E-Prime, Audacity

Statistical Analysis: SPSS