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SAMANTHA R. O'CONNELL

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pronouns: she/her/hers

EDUCATION

2021 *Ph.D.*, Psychological and Brain Sciences, University of Nevada, Las Vegas, NV
Advisor: Joel S. Snyder, Ph.D.
Dissertation: *Exploring the relation between musical and dance sophistication and 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

RESEARCH EXPERIENCE

2021- Postdoctoral Scholar – Research Associate, Keck School of Medicine of USC, University of Southern California, Los Angeles, CA
Bionic Ear Laboratory
Principal Investigator: Raymond Goldsworthy, Ph.D.

2016-21 Graduate Student Researcher, University of Nevada, Las Vegas, NV
Auditory Cognitive Neuroscience Laboratory
Principal Investigator: Joel S. Snyder, Ph.D.

2013-15 Staff Research Associate II, University of California Los Angeles, CA
Staglin IMHRO Center for Cognitive Neuroscience
Principal Investigators: Mark S. Cohen, Ph.D. & 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.

PUBLICATIONS

O'Connell, S.R., Nave-Blodgett, J.E., Wilson, G., Hannon, E.E., & Snyder, J.S. (in preparation). Exploring the relation between musical and dance sophistication and musical groove perception. *Frontiers in Psychology.*

Camarena, A., Manchala, G., Papadopolous, J., **O'Connell, S. R.**, & Goldsworthy, R. L. (2022). Pleasantness ratings of musical dyads in cochlear implant users. *Brain Sciences*, 12(33), 1-19.

O'Connell, S.R. (2021). *Exploring the relation between musical and dance sophistication and musical groove perception* (Order No. 28646824). Available from ProQuest Dissertations & Theses Global; ProQuest One Academic. (2605254181).

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
2017-21	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

CONFERENCE PRESENTATIONS

Podium Presentations

O'Connell, S.R.*, Nave-Blodgett, J.E., Wilson, G., Ridgway, W.B., Insouvanh, K., Hannon, E.E., & Snyder, J.S. (2021, November). *Exploring the Relation Between Musical and Dance Sophistication and Musical Groove Perception.* The 19th Annual Auditory Perception Cognition and Action Meeting.

Posters

Sundaram, S., Gan, H., **O'Connell, S.R.**, Goldsworthy, R.L. (2022, January). *Effects of Music-Induced Arousal on Performance in the Iowa Gambling.* Keck School of Medicine of USC.

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

INVITED TALKS

O'Connell, S.R. *Exploring the Relation Between Musical and Dance Sophistication and Musical Groove Perception*. (2021, June). Dissertation Defense, Department of Psychology, University of Nevada, Las Vegas, NV

O'Connell, S.R. (2021, March). *Musical Groove Perception: Studies on Motor System Engagement and Arts Sophistication*. Bionic Ear Lab, University of Southern California, Los Angeles, CA.

O'Connell, S.R. (2020, December). *Why Does It Feel So Good to Dance? Movement, Music, and the Brain*. Chicago Tap Theatre, Chicago, IL.

O'Connell, S.R. (2018, July). *Why Musical Groove Makes Us Move: An Electroencephalographic Investigation*. Master's Thesis Defense, Department of Psychology, University of Nevada, Las Vegas, NV.

O'Connell, S.R. (2018, April). *Why Musical Groove Makes Us Move: An Electroencephalographic Investigation*. Departmental Data Blitz, Department of Psychology, University of Nevada, Las Vegas, NV.

O'Connell, S.R. (2016, November). *Why Music Makes Us Dance: An EEG Investigation*. Department of Psychology, University of Nevada, Las Vegas, NV

O'Connell, S.R. (2016, April). *Investigating the Influence of Groove on Motor Excitation and Arousal*. Department of Psychology, University of Nevada, Las Vegas, NV.

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

2021-	Member, *Association for Research in Otolaryngology (ARO)*
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 (SMPC)*

SERVICE TO THE PROFESSION

2021 -	Invited Manuscript Reviewer: The Laryngoscope
2021-	Diversity and Minority Committee Representative, Student, Postdoc, Resident and Fellow chapter of the Association for Research in Otolaryngology (spARO) Steering Committee
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 Scientists, Las Vegas, NV
2016-21	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
- fNIRS: NIRx NIRScout

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

Statistical Analysis: SPSS, JASP