

# Shannon Proksch

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www.shannonproksch.com

## EDUCATION

<b>PhD Cognitive and Information Sciences</b>	<b>est. grad. 2023</b>
University of California, Merced	
Advisor: Prof. Ramesh Balasubramaniam	
<b>MSc, Mind, Language and Embodied Cognition</b>	<b>2017</b>
with Distinction	
The University of Edinburgh	
<b>BA, Music, minors Philosophy &amp; Psychology</b>	<b>2015</b>
Summa Cum Laude, Honors Program Graduate with Thesis Defense	
Texas A&M University – Corpus Christi	
<b>Certificate, Teaching English to Speakers of Other Languages</b>	<b>2015</b>
Texas A&M University – Corpus Christi	
<b>Seven-week French Language Immersion Program</b>	<b>2013</b>
Middlebury College, Vermont	

## PUBLICATIONS

- Proksch, S.** Comstock, D. C., Médé, B., Pabst, A., Balasubramaniam, R. (*in review*). Motor and predictive processes in auditory beat and rhythm perception. *Frontiers in Human Neuroscience, Cognitive Neuroscience*.
- Holbrook, C., Iacoboni, M., Gordon, C., **Proksch, S.**, Balasubramaniam, R. (*in review*). Posterior medial frontal cortex mediates threat-enhanced religious belief: A replication and extension study. *Social Cognitive and Affective Neuroscience*.
- Proksch, S.** (2017). Interoceptive inference and emotion in music: Integrating the neurofunctional 'Quartet Theory of Emotion' with predictive processing in music-related emotional experience. *Journal of Cognition and Neuroethics*.
- Proksch, S.** (2017). *Integrating the neurofunctional 'Quartet Theory of Emotion' with predictive processing in music-related emotional experience*. (Unpublished master's dissertation). The University of Edinburgh, Edinburgh, Scotland.
- Proksch, S.** (2015). *Music and language: Evolutionary and cognitive perspectives*. (Unpublished BA Honors Thesis). Texas A&M University-Corpus Christi, Corpus Christi, Texas.
- Proksch, S.** (2014). *Music and language in the mind: Intention, structure, and perception*. (Unpublished BA Thesis). Texas A&M University-Corpus Christi, Corpus Christi, Texas.

## CONFERENCE PRESENTATIONS

- Proksch, S.**, (November 2019). Synchrony and the Markov Blankets of Multi-Agent Human Interaction. Talk presented at the *Timescales of Life and Mind: Interdisciplinary Conference on Timescales as a Methodological Approach to Predictive Processing and the Free Energy Principle*, Edinburgh, Scotland.

- Ross, J. M., **Proksch, S.**, Iversen, J.R., Balasubramaniam, R. (August 2019). Down-regulation of left posterior parietal cortex impairs musical phase shift detection in subjects with good perceptual acuity for phase timing. Poster presented at the *Biennial Meeting of the Society for Music Perception and Cognition*. New York City, USA.
- Ross, J. M., **Proksch, S.**, Iversen, J.R., Balasubramaniam, R. (July 2019). Down-regulation of left posterior parietal cortex impairs musical phase shift detection in subjects with good perceptual acuity for phase timing. Poster presented at *Synchrony and Rhythmic Interaction: From Neurons to Ecology Lorentz Workshop*, Leiden, Netherlands.
- Proksch, S.**, Booth, L., Dayer, A., Reeves, M., Spivey, M. (June 2019). Online and In Sync? Bodily synchrony & interpersonal closeness in audiovisual communication. Poster presented at the *American Psychological Association Advanced Training Institute on Nonlinear Methods for Psychological Science*, Cincinnati, Ohio.
- Ross, J. M., **Proksch, S.**, Iversen, J.R., Balasubramaniam, R. (March 2019). Hemispheric differences in parietal contributions to auditory beat perception. Poster presented at *Cognitive Neuroscience Society 2019 Annual Meeting*, San Francisco, California.
- Proksch, S.**, Ross, J. M., Balasubramaniam, R. (February 2019). Hemispheric differences in parietal contributions to auditory beat perception. Poster presented at *Spring School 2019 Language and Music in Cognition: Integrated Approaches to Cognitive Systems*, Cologne, Germany.
- Proksch, S.** (November 2017). Interoceptive inference and emotion in music: Integrating the neurofunctional ‘Quartet Theory of Emotion’ with predictive processing in music-related emotional experience. Poster presented at *Expecting Ourselves: Prediction, Action, and the Embodied Mind*, Edinburgh, United Kingdom, November 2017.
- Proksch, S.** (November 2017). Grounding musical entrainment and social cohesion in sensorimotor contingencies. Talk presented at the *Worlding the Brain Conference*, Amsterdam, Netherlands.
- Proksch, S.** (August 2017). Interoceptive inference and emotion in music: Integrating the neurofunctional ‘Quartet Theory of Emotion’ with predictive processing in music-related emotional experience. Talk presented at the *Mind and Brain Annual Conference*, Flint, MI.
- Novelli, N. & **Proksch, S.** (April 2017). The limitations of music making machines. Talk presented at the *6<sup>th</sup> Dubrovnik Conference on the Philosophy of Art*, Dubrovnik, Croatia.

## OTHER PRESENTATIONS

- RadioBio GradStory** March 2019  
 Interviewed by RadioBio, a graduate student run podcast, during UC Merced’s Research Week  
 Interview topic: Rhythms in Brains and Interacting People.
- Cognitive Science Student Association Symposium** Dec 2019  
 Outreach event sharing graduate student cognitive science research with undergraduate students  
 Talk title: On Music & Artificial Intelligence: The limitations of music-making machines
- Edinburgh Music Psychology Research Reading Group** Spring 2017  
 Organized and led discussion for three reading group sessions on:  
 Introduction to music and predictive processing  
 Emotion in music and predictive processing  
 Rhythm in music and predictive processing

## ADDITIONAL TRAINING

Neuromatch Academy Computational Neuroscience Summer School	2020
American Psychological Association Advanced Training Institute: Nonlinear Methods for Psychological Science, University of Cincinnati, Ohio	2019
Spring School Language and Music in Cognition: Integrated Approaches to Cognitive Systems, Universität zu Köln, Cologne, Germany	2019
Linear Models and Mixed Models with R, University of Edinburgh (Instructor: Bodo Winter)	2017

## AWARDS & SCHOLARSHIPS

### Graduate

NSF Research Traineeship (NRT) Fellowship- Intelligent Adaptive Systems <i>UC Merced</i>	Fall 2019-Summer 2020
NRT Interdisciplinary Computational Graduate Education Program <i>UC Merced</i>	Spring 2019
Graduate Dean's Recruitment Fellowship <i>UC Merced</i>	Fall 2018-Summer 2019
Highly Commended Dissertation Prize <i>University of Edinburgh</i>	October 2017
Conference Travel Funding Award ( <i>University of Edinburgh; for presentation at the 6th Dubrovnik Conference on the Philosophy of Art</i> )	April 2017

## PROFESSIONAL EXPERIENCE

<b>Teaching Assistant – Perception and Action</b>	Fall 2020
University of California, Merced	
<b>English Second Language Instructor</b>	Nov 2016—May 2018
E-Joy English Online Language School, Beijing, China	
<b>Elementary Music and English Second Language Instructor</b>	Feb 2016—June 2016
Ameri-Can International Academy, CIBT Education Group, Weifang, China	
<b>Grader/Supplemental Instructor- Honors Elementary Formal Logic</b>	Spring 2015
Texas A&M University- Corpus Christi	
<b>Reader/Grader- Music Appreciation</b>	Fall 2014
Texas A&M University- Corpus Christi	
<b>Counselor/Music Theory Instructor- Islander Band Camp</b>	2013—2015 (summers)
Texas A&M University- Corpus Christi	

## SKILLS

Propositional, predicate, modal logics  
R, MATLAB, Python  
TMS, EEG (set up & assisting testing)

## LANGUAGES

English (native)  
French (speak, read, & write with proficiency)

## ORGANIZATIONS

Society of Music Perception and Cognition  
American Psychological Association  
Cognitive Neuroscience Society  
International Double Reed Society

## INSTRUMENTS

Primary: Oboe/English Horn  
Secondary: Saxophone/Clarinet/Flute

References available upon request