Sarah Hennessy, Ph.D.

shennessy@arizona.edu | 907 792 9183 | sarahlouisehennessy.com

TRAINING	
University of Arizona	

2024-present

Postdoctoral Fellow Advisors: Dr. Jessica Andrews-Hanna, Dr. Matthew Grilli

University of Southern California

2019-2024

Ph.D., Psychology, M.A., Psychology Emphasis: Brain and Cognitive Sciences

Advisors: Dr. Assal Habibi, Dr. Antonio Damasio

Dissertation: Behavioral and Neural Correlates of Music-Evoked Nostalgia Across the

Lifespan

Occidental College 2013-2017

B.A., Psychology (Honors); Minor: Ethnomusicology

Magna cum laude, Departamental Distinction Advisor: Dr. Anne Schell

FUNDING

NIH/NIA Music & Dementia Research Network Pilot Research Award

2025

(U24AG084436): "Neural Mechanisms Supporting Music-Evoked Nostalgia in Mild

Cognitive Impairment."

Award: \$50,000 Co-Investigator

Arizona Alzheimer's Consortium Pilot Research Funding Award: "Examining autobiographical memory integration in older adults: social functions and neural

2025

dynamics." Award: \$24,127

Award: \$24,12/ Co-Investigator

National Institute on Deafness and Other Communication Disorders Pre-Doctoral Fellowship Hearing and Communication Neuroscience (T32 DC009975): "Neural

2023-2024

Correlates of Music-Evoked Nostalgia Across the Lifespan."

Award: \$27,144
Pre-Doctoral Trainee

USC Graduate School Summer Research and Writing Grant

2023

Award: \$2,000

Gold Family Fellowship: "Music-evoked autobiographical memories in older adults from underrepresented communities"

2023

Principal Investigator

Award: \$5,000

SEMPRE 50th Anniversary Research Award: "Music-evoked autobiographical memories

2022

in older adults from underrepresented communities."

Principal Investigator

Award: \$16,000

GRAMMY Museum Scientific Research Grant: "Music-evoked nostalgia and associated neural correlates across the lifespan." Principal Investigator Award: \$20,000	2022
USC Department of Psychology Doctoral Research Grant Award: "Music-evoked autobiographical memories in older adults from underrepresented communities." Principal Investigator Award: \$1000	2022
USC Department of Psychology Doctoral Research Grant Award: "Using machine learning methods to predict music-evoked nostalgia." Principal Investigator Award: \$3250	2021
Dornsife PhD Academy Research and Travel Award Award: \$1500	2021-2023
USC Psychology Research Continuity Award (\$1000): "Music and emotion regulation during the COVID-19 pandemic." Principal Investigator Award: \$1000	2020
USC Psychology Department Travel Award Award: \$2000	2020-2021
USC Fellowship Bootcamp Award Trainee	2019, 2021

PUBLICATIONS

Award: \$2000

- Klus, J., Cohen, D., Garcia, A., **Hennessy**, **S.**, Mehl, M., Andrews-Hanna, J., Grilli, M., (2025). Modeling memories, predicting prospections: automated scoring of autobiographical detail narration using large language models. *Behavior Research Methods*.
- **Hennessy, S.** & Habibi, A., (2025). Content of nostalgic music-evoked autobiographical memories. *Psychology of Aesthetics, Creativity, and the Arts.*
- **Hennessy, S.**, Kaplan, J., Ginsberg, T.*, Janata, P., Habibi, A., (2025). Music-evoked nostalgia activates default mode and reward networks across the lifespan. *Human Brain Mapping*.
- **Hennessy, S.,** Greer, T., Narayanan, S., Habibi, A., (2024). Unique affective profile of nostalgic music: An extension and conceptual replication of Barrett et al., 2010. *Emotion*.

^{* =} trainee author (undergraduate student)

- Hennessy, S., Herschel, E., Goldsworthy, R., Cahn, R., Habibi, A. (2022). Effects of online choir or mindfulness interventions on auditory perception and well-being in middle- and older-aged adults during the COVID-19 pandemic: a randomized controlled trial. *Music and Science*.
- **Hennessy, S.**, Mack, W. J., & Habibi, A. (2022). Speech-in-noise perception in musicians and non-musicians: a multi-level meta-analysis. *Hearing Research*, 108442.
- **Hennessy, S.**, Sachs, M., Kaplan, J., & Habibi, A. (2021). Music and mood regulation during the early-stages of the COVID-19 pandemic. *PLOS One*.
- **Hennessy, S.,** Wood, A., Wilcox, R., & Habibi, A. (2021). Neurophysiological improvements in speech-innoise task after short-term choir training in older adults. *Aging*.
- **Hennessy, S.,** Sachs, M., Ilari, B., & Habibi, A. (2019). Effects of Music Training on Inhibitory Control and Associated Neural Networks in School-Aged Children: A Longitudinal Study. *Frontiers in Neuroscience: Auditory Cognitive Neuroscience*.

PUBLICATIONS UNDER REVIEW AND IN PREPARATION

- **Hennessy, S.**, Andrews-Hanna, J., Grilli, M., (*under review*). The advantages of aging: greater stability of self-representation in older adults linked to higher well-being.
- Herschel, E., Bell, S., **Hennessy**, **S.**, Habibi, A., (*under review*). Soundscape of the mind: feasibility and therapeutic impact of music and audiobooks for older adults with cognitive impairment.
- **Hennessy, S.,** Greer, T., Habibi, A., Narayanan, S., (*under review*). What Makes Music Nostalgic? A validation of a music recommendation tool.
- Papadopoulos, J., Nowlen, F., **Hennessy**, **S.**, Herschel, E., Habibi, A., Goldsworthy, R., (*under review*). Relationships between short term choir participation, well-being, and singing abilities of adult cochlear implant users.
- **Hennessy, S.**, Kaplan, J., Habibi, A., (*in preparation*). "We read the news today, oh boy": Intersubject neural synchronization during a shared nostalgic music listening experience.
- **Hennessy, S.**, Ishak, M.*, Noel, C.*, Habibi, A., (*in preparation*). Music-evoked nostalgia and autobiographical memory in BIPOC older adults.

PRESENTATIONS

- * = trainee author (undergraduate student)
- Pluimer, B., Sridhar, A., Mawla, I., **Hennessy, S.**, Ichesco, E., Iyer, R., Kairys, A., Lulla, R., Wu, H., Harris, R., (June 2025). Evaluating Al-powered Assessments of Neuroimaging Research. Poster presentation at Organization for Human Brain Mapping in Brisbane, Australia.
- Ishak, M.*, **Hennessy S.**, Habibi, A., (July 2024). Exploring the Role of Lyrics in Shaping Emotional Responses to Music. Poster presentation at Society for Music Perception and Cognition, Banff, AB.

- Ginsburg, T*., **Hennessy S.**, Habibi, A., (July, 2024). Age-related changes in neural activation associated with semantic details of music-evoked autobiographical memories. Symposium talk presentation at Society for Music Perception and Cognition, Banff, AB.
- **Hennessy, S.,** Janata, P., Ginsberg, T., Kaplan, J., Habibi, A., (June 2024). Neural correlates of music-evoked nostalgia across the lifespan. Poster presentation at Neurosciences of Music, Helsinki, Finland.
- **Hennessy, S.,** Janata, P., Habibi, A., (October 2023). Neural correlates of music-evoked nostalgia across the lifespan. Poster presentation at NeuroMusic, Hamilton, ON.
- **Hennessy, S.**, Mack, W. J., & Habibi, A. (August 2022). Speech-in-noise perception in musicians and non-musicians: a multi-level meta-analysis. Post presentation Society for Music Perception and Cognition, Portland, OR.
- **Hennessy, S.,** Wood, A., Wilcox, R., & Habibi, A., (November 2021). Short-Term Music Training on Auditory Processing in Older Adults. Poster presentation at Society for Neuroscience (virtual).
- Hennessy, S., Wood, A., & Habibi, A., (June 2021). Short-Term Music Training on Auditory Processing in Older Adults. Poster presentation at Neuroscience and Music VII: Connecting with music across the lifespan, Aarhus, Denmark (virtual).
- Hennessy, S., Sachs, M., Ilari, B., & Habibi, A., (September 2019). Effects of Music Training on Inhibitory Control and Associated Neural Networks in School-Aged Children: A Longitudinal Study. Symposium presentation at the Society for Music Perception and Cognition, New York City, NY.
- Hennessy, S., Perez, P., & Habibi, A., (September 2018). Longitudinal effects of music training on inhibitory control in school-aged children. Poster presented at The International Mind, Brain, and Education Society, Los Angeles, CA.
- **Hennessy, S.,** & Schell, A. (October 2017). *Psychophysiological responses during music-induced nostalgia in younger and older adults.* Poster presented at Society for Psychophysiological Research Convention, Vienna, Austria.
- **Hennessy, S.,** & Schell, A. (May 2017). Psychophysiological responses during music-induced nostalgia in younger and older adults. Poster presented at the Psychology Undergraduate Research Conference of the University of California Los Angeles, Los Angeles, CA.

INVITED TALKS

"Introduction to R programming" University of Arizona, Neuroscience of Emotion and Thought Lab	2024
"Music-evoked memory, and implications for healthy aging" University of Southern California: Mind-Body Connection (PSYC 374)	2023-2024
"Music and Memory: Nostalgia and Health" University of Southern California: Accelerated Summer Psychology Course	2022-2023
"Music-evoked Memory and Nostalgia" University of Southern California: Music, Mind, and Brain (PSYC 215)	2022
"Confounds and Obscuring Variables"	2021

University of Southern California: Experimental Research Methods (PSYC 314)	
"COVID-19 Vaccination: Myths and Facts" University of Southern California: Drugs, Behavior, and Society (PSYC 165)	2021
"Music Training and Child Development" University of Southern California: Reporting and Writing (JOUR 206)	2019
TEACHING	
Training Completed Al and Teaching and Learning Faculty Learning Community University of Arizona	2025
Attended weekly workshops to gain skills in teaching students about AI, integrating AI into learning environments, and ethical use of AI.	
Founder, Instructor Brain and Music Lab Workshop Series Monthly 2-hour workshops (e.g., R Programming, resume building, neuroanatomy, fMRI methods)	2022-2024
Teaching Assistant <i>Music, Mind, and Brain,</i> University of Southern California Department of Psychology Mean overall rating: 3.8/4	2022
Certification Received Center for Excellence in Teaching Future Faculty Training Institute University of Southern California	2021
Teaching Assistant Experimental Research Methods, University of Southern California Department of Psychology Mean overall rating: 3.7/4	2021
Teaching Assistant Course: <i>Drugs, Behavior, and Society,</i> University of Southern California Department of Psychology Mean overall rating: 3.9/4	2021
Teaching Assistant Introduction to Psychology, University of Southern California Department of Psychology Mean overall rating: 3.9/4	2020
MENTORSHIP	
Brain and Music Lab Research Assistants	2017-2024

Trained, managed, and mentored over 80 undergraduate and masters-level researcher assistants. Led monthly workshops on statistical methods, research methods,

coding, post-baccalaureate career paths. Mentored independent projects and theses (see below).

Grace Lee, Neuroscience Honors, Undergraduate University of Southern California "Using Natural Language Processing to Identity Content Diversity in Nostalgic Music- evoked Narratives"	2024-
Aanya Agarwal, Cognitive Science Honors, Undergraduate University of Southern California "Priming in autobiographical narratives"	2024-
Mark Feng, Neuroscience Honors, Undergraduate University of Southern California "Bodily maps of nostalgia evoked by music"	2024-
Alisha Huang, Independent Research Project, Neuroscience University of Southern California "Culturally-tailored music therapy for older adults with dementia: a systematic literature review"	2024-
Michael Ishak, Independent Research Project University of Southern California "Exploring the Role of Lyrics in Shaping Emotional Responses to Music"	2024-
Ashley Melendres, Neuroscience Honors, Undergraduate University of Southern California "White Matter Predictors of Autobiographical Memory Recall from Music"	2024-
Kylie Meng-Lin, Neuroscience Honors, Undergraduate University of Southern California "Hippocampal Volume Predictors of Autobiographical Memory Recall from Music in Younger and Older adults"	2023-
Jasmine Shapiro, Athena Fong, Speech and Language Pathology Capstone, Masters University of Southern California Keck School of Medicine "Music and autobiographical memory in aging"	2024
Talia Ginsberg, Neuroscience Honors, Undergraduate	2024
University of Southern California "Age-related changes in neural activation associated with semantic details of music-evoked autobiographical memories"	
Edalyn Cayetano, Nona Hovhannisyan, Speech and Language Pathology Capstone, Masters University of Southern California Keck School of Medicine "Music-evoked Autobiographical Memories"	2023
Samhita Swamy, Neuroscience Honors, Undergraduate University of Southern California "Community Music Training and Neural Correlates of Emotional Well-being"	2019

INVITED PEER REVIEW

Scientific Reports Psychological Science Current Opinion in Behavioral Sciences **Emotion** European Journal of Personality Psychology of Music Frontiers in Psychology

Department (2024)

Department of Psychology, Rat Lab

Occidental College; Supervisor: Dr. Nancy Dess

Best Data Blitz Award, UofA Psychology

HONORS & SCHOLARSHIPS

 Excellence in Scientific Writing Award, USC Psychology Department (2024) University of Washington NeuroHackademy (2020) USC Dornsife/ Graduate School Fellowship (2019-) 	 Occidental College Departmental Honors, Psychology (2017) Occidental College InternAway Summer Funding (\$3000) (2016) Occidental College Dean's List (2014) Occidental College Presidential Scholarship (\$20,000/yr) (2013- 2017)
PRE-DOCTORAL RESEARCH POSITIONS	
NIH T32 Pre-Doctoral Research Fellow Hearing and Communication Neuroscience Program University of Southern California; Fellowship Committee Kaplan, Dr. Shrikanth Narayanan	2023-2024 e: Dr. Assal Habibi, Dr. Jonas
Research Coordinator Brain and Creativity Institute University of Southern California; Supervisor: Dr. Assal	2017- 2019 Habibi
Research Coordinator Brain and Creativity Institute University of Southern California; Supervisors: Dr. Assa Matthew Sachs	2015- 2017 al Habibi, Dr. Beatriz llari, Dr.
Research Assistant Department of Psychology, Psychophysiology Occidental College; Supervisor: Dr. Anne Schell	2017
Research Assistant Department of Psychology, Thinking Lab Occidental College; Supervisor: Dr. Andrew Shtulman	2016
Research Assistant Department of Psychology, Cognitive Psychology University of Alaska Anchorage; Supervisor: Dr. Yasuhi	2015 iro Ozuru
Research Assistant	2015

Occidental College Departmental Distinction, Psychology (2017)

INDUSTRY EXPERIENCE

Research and Data Science Intern Rubato Life Los Angeles, CA	2022-2023
COMMUNITY OUTREACH AND SERVICE	,
Postdoctoral Committee Member Diversity, Equity, and Inclusion (DEI) Advocacy Committee University of Arizona Department of Psychology	2025-
High School Competition Judge Southern Arizona Research, Science, and Engineering Foundation	2025
High School Competition Judge National STEM Challenge	2023
High School Student Research Mentor Polygence Inc.	2023-
Personal Statement Editor CAPTURE Increase Student Diversity Committee, University of Southern California	2020-2024
PhD Application Mentor Next Gen Scholars Program, University of Minnesota	2020-2024
Lecture Series Organizer Brain and Cognitive Sciences Area, USC Psychology	2019-2022
Education and Public Outreach Volunteer Alzheimer's Association, Southern California Southland Chapter	2018-

RELEVANT SKILLS

Data Collection	EEG (Neuroscan, BrainVision), f/MRI (Seimens), skin conductance, heart rate, blood volume (Biopac), Qualtrics, RedCap
Imaging Analysis	Univariate functional analysis (FSL), functional connectivity, MVPA (pymvpa), ISC/ISFC (brainIAK), voxel-based morphometry (FSL), mask tracing (BrainSuite), ERP analysis (EEGLab, erplab), DTI (BrainSuite, DSI Studio)
Statistics Programming	R statistics, IBM SPSS, MSAccess, SASViya, Tableau, QuickSight Python, MATLAB, PsychToolbox, SuperLab, SQL, NoSQL, MongoDB