

# Stacey L.G. Kane, AuD, PhD

Assistant Professor

University of Maryland, Department of Hearing and Speech Sciences  
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## EDUCATION

**PhD**, Speech and Hearing Science August 2024

*School of Medicine, University of North Carolina at Chapel Hill*

- *Dissertation*: Factors Affecting Assessment and Speech Perception Outcomes in Children with Auditory Neuropathy
- *Committee*: Emily Buss, PhD; John Grose, PhD, Lori Leibold, PhD; Heather Porter, PhD; Hannah Siburt, PhD

**AuD**, Doctor of Audiology May 2014

*School of Medicine, Washington University in St. Louis*

**BA**, *Magna cum laude*, Philosophy-Neuroscience-Psychology May 2010

*Washington University in St. Louis*

## RESEARCH INTERESTS

developmental psychoacoustics \* speech perception \* language development \* auditory neuropathy \* hearing loss

## RESEARCH FUNDING

NIDCD F32 DC020341 – *Effects of Auditory Neuropathy and Cochlear Hearing Loss on Speech Perception*

Ruth L. Kirschstein Postdoctoral Individual National Research Service Award

## AWARDS AND HONORS

- Mentored Student Poster Award, American Auditory Society Annual 2023
- Council of Academic Programs in Communication Sciences and Disorders PhD Scholarship 2022
- New Century Scholars Doctoral Student Scholarship, American Speech-Language Hearing Foundation 2020
- Mentored Student Poster Award, American Auditory Society Annual Meeting 2019
- Program in Audiology and Communication Sciences (PACS) Scholarship, Washington University in St. Louis 2010 – 2014
- Scholars in PACS Award – Bohl Scholarship, Washington University in St. Louis 2011 – 2012
- NIH T35 Traineeship, Washington University in St. Louis 2011
- Herbert J. Oyer Student Research Award, Academy of Rehabilitative Audiology 2011
- Latin Honors, *Magna cum laude*, Washington University in St. Louis 2010

## SUMMARY OF RESEARCH SKILLS

Project management \* grant and proposal writing \* research methodology & design \* participant recruitment \* data collection \* data management \* statistical analysis (SPSS, R) \* oral presentations \* manuscript preparation

## RESEARCH EXPERIENCE

**Effects of Auditory Neuropathy and Cochlear Hearing Loss on Speech Perception** 2020 - present

*UNC School of Medicine/Department of Allied Health Sciences – Division of Speech and Hearing Sciences, Chapel Hill, NC*

- Dissertation

**Concurrent recording of the electrically-evoked compound action potential and the auditory brainstem response in cochlear implant users** 2021 – 2023

*UNC School of Medicine, Chapel Hill, NC*

*Psychoacoustics & Electrophysiology Auditory Research Laboratory (PEARL) – PI: John Grose, PhD*

- Audiologist

**Development and Plasticity in Normal and Impaired Ears** 2018-present

*UNC School of Medicine, Chapel Hill, NC*

*Speech Perception and Auditory Research at Carolina (SPARC) Lab – PI: Emily Buss, PhD*

- Doctoral student investigator

**Complex Sound Analysis in Normal and Impaired Ears** 2018-2021

*UNC School of Medicine, Chapel Hill, NC*

*Psychoacoustics & Electrophysiology Auditory Research Laboratory (PEARL) – PI: John Grose, PhD*

- Doctoral student investigator

**Factors Influencing the Behavioral Assessment of Hearing During Infancy and Childhood** 2018-2020

*UNC School of Medicine, Chapel Hill, NC*

*Speech Perception and Auditory Research at Carolina (SPARC) Lab – PI: Emily Buss, PhD*

- Doctoral student investigator

**Spatial Hearing and Functional Auditory Skills in Children with Unilateral Hearing Loss**

2018-2019

*UNC School of Medicine, Chapel Hill, NC*

*Speech Perception and Auditory Research at Carolina (SPARC) Lab – PI: Emily Buss, PhD*

- Doctoral student investigator

**Speech Perception in Spanish and English**

2018-2019

*UNC School of Medicine, Chapel Hill, NC*

*Speech Perception and Auditory Research at Carolina (SPARC) Lab – PI: Emily Buss, PhD*

- Doctoral student investigator

**Auditory training and Talker Variability**

2010-2013

*Washington University in St. Louis, St. Louis, MO*

*Audio-Visual Research Lab – PI: Nancy Tye-Murray, PhD*

- Graduate Research Assistant
- T35 Trainee

**Auditory Visual Integration**

2006-2010

*Washington University in St. Louis, St. Louis, MO*

*Department of Psychology Hearing & Aging Research Lab – PI: Mitchell Sommers, PhD*

- Undergraduate Research Assistant
- Independent Study Student

**TEACHING & MENTORING EXPERIENCE**

**Co-Instructor**

*Clinical Assessment – Graduate Course*

Fall 2023

*UNC School of Medicine/Department of Allied Health Sciences – Division of Speech and Hearing Sciences, Chapel Hill, NC*

**Instructor**

Spring 2020 - 2023

*Instrumentation & Calibration – Graduate Course*

*UNC School of Medicine/Department of Allied Health Sciences – Division of Speech and Hearing Sciences, Chapel Hill, NC*

**Teaching Assistant**

Fall 2019

*Auditory Perception – Graduate Course*

*UNC School of Medicine/Department of Allied Health Sciences – Division of Speech and Hearing Sciences, Chapel Hill, NC*

**Teaching Assistant**

Spring 2019

*Anatomy & Physiology of Speech and Hearing Mechanisms – Undergraduate Course*

*UNC School of Medicine/Department of Allied Health Sciences – Division of Speech and Hearing Sciences, Chapel Hill, NC*

**PROFESSIONAL EXPERIENCE**

**Graduate Research Assistant**

8/2018 – present

*UNC School of Medicine, Chapel Hill, NC*

**Medical Therapeutic Specialist**

11/2017 – 8/2018

*UNC School of Medicine, Chapel Hill, NC*

**Clinical Audiologist**

2/2015 – 11/2017

*Children’s Healthcare of Atlanta, Atlanta, GA*

**Clinical Audiologist**

7/2014 – 2/2015

*Emory Healthcare, Atlanta, GA*

**PUBLICATIONS**

<https://www.ncbi.nlm.nih.gov/myncbi/stacey.goebel.1/bibliography/public/>

*Publications*

Buss, E., Kane, S., Young, K., Gratzek, C., Bishop, D., Miller, M., Porter, H., Leibold, L., Stecker, C., & Monson, B. (2024). Effects of Stimulus Type on 16-kHz Detection Thresholds. *Ear and Hearing*, Online. [PMID: 38178308]

Kane, S., Dean, K., & Buss, E. (2021). Speech-in-Speech Recognition and Spatially Selective Attention in Children and Adults. *Journal of Speech, Language and Hearing Research*, 64(9), 3617-3626. [PMCID: PMC8642097]

Kane, S., Buss, E., & Grose, J. (2020). Binaural Frequency Modulation Detection in School-Age Children, Young Adults, and Older Adults: Effects of Interaural Modulator Phase. *Ear and Hearing*, 42(3), 691-699. [PMCID: PMC8087618]

- Canfarotta, M., **Kane, S.**, & Buss, E. (2020). Effects of Presentation Level on Spatial Hearing with and Without Bone-Conduction Amplification in Congenital Unilateral Aural Atresia. *Otology & Neurotology*, 42(4), e388-e392. [PMID: 33351560]
- Thompson, N., **Kane, S.**, Corbin, N., Canfarotta, M., & Buss, E. (2020). Spatial Hearing as a Function of Presentation Level in Moderate-to-Severe Unilateral Conductive Hearing Loss. *Otology & Neurotology* 16, 41(2), 167-172. [PMCID: PMC6954336]
- Spehar, B., **Goebel, S.**, & Tye-Murray, N. (2015). Effects of context type on lipreading and listening performance and implications for sentence processing. *Journal of Speech Language and Hearing Research*. 58, 1093-1102. [PMCID: PMC4610295]

#### *Presentations*

- Kane S**, Porter H, Miller M, Leibold L, & Buss E. Effects of Temporal and Spectral Smearing on Vowel and Consonant Discrimination in Children and Adults. Poster presented at the: American Auditory Society Annual Meeting; 2023; Scottsdale, AZ.
- Van Bosch J, **Kane S**, Dillon M, Dedmon M, & Grose J. Concurrent Recording of the Electrically Evoked Compound Action Potential and Auditory Brainstem Response in Cochlear Implant Users. Poster presented at the: American Auditory Society Annual Meeting; 2023; Scottsdale, AZ.
- Gratzek C, **Kane S**, Monson B, Stecker C, & Buss E. Effect of Stimulus Type on Thresholds at Extended High Frequencies. Poster presented at the: American Auditory Society Annual Meeting; 2023; Scottsdale, AZ.
- Folkerts M, **Kane S**, & Grose. Behavioral and Electrophysiological Measures of Age-Related Minimum Audible Angles. Poster presented at the: American Auditory Society Annual Meeting; 2023; Scottsdale, AZ.
- Kane S**, Dean K, Buss E. Speech-in-Speech Recognition and Spatially Selective Attention in Children and Adults. Poster presented at the: American Auditory Society Annual Meeting; 2020; Scottsdale, AZ.
- Kane S**, Buss E. Estimating Spectral Ripple Resolution in Children and Adults. Poster presented at the: American Auditory Society Annual Meeting; 2019; Scottsdale, AZ.
- Canfarotta, M., Thompson, N., **Kane, S.**, Corbin, N., Buss, E. Spatial Hearing as a Function of Presentation Level in Moderate-to-Severe Unilateral Conductive Hearing Loss. Poster presented at the: Association for Research in Otolaryngology Midwinter Meeting; 2019; Baltimore, MD.
- Grose, J., Buss, E., **Kane, S.** Low-rate Frequency Modulation Detection Across the Lifespan. Poster presented at the: Acoustical Society of America Annual Meeting; 2018; Victoria, BC, Canada.
- Goebel, S.** & Blake, D. Supporting Early Literacy in the Audiology Clinic. Poster presented at the: Early Hearing Detection & Intervention Conference; 2017; Atlanta, GA.
- Goebel, S.** A Lipreading Test That Assesses Use of Context: Implications for Audiological Rehabilitation. Presented at the: Academy of Rehabilitative Audiology Annual Meeting; 2012; Providence, RI.
- Goebel, S.**, Spehar, B., Tye-Murray, N. Effects of Type of Context on Use of Context while Listening and Lipreading. Poster presented at the: American Auditory Society Annual Meeting; 2012; Scottsdale, AZ.

#### **SERVICE**

Journal of Speech, Language, Hearing Research, Reviewer  
Ear and Hearing, Reviewer  
Speech Communication, Reviewer

#### **PROFESSIONAL AFFILIATIONS**

American Auditory Society, Member  
American Speech-Language Hearing Association, Member, Certificate of Clinical Competence (CCC-A)  
Acoustical Society of America, Member  
American Academy of Audiology, Member