

Samantha Gustafson, Au.D., Ph.D.
College of Health
Department of Communication Sciences and Disorders
390 South 150 East, BEHS 1204, Salt Lake City, UT 84112
801-213-3638
Samantha.Gustafson@utah.edu

I EDUCATION

Vanderbilt University Nashville, Tennessee	Ph.D.	2017	Hearing Science
<i>Dissertation: Cortical Associates of Speech-in-Noise Perception from Childhood to Adulthood</i>			
Arizona State University Tempe, Arizona	Au.D.	2012	Audiology
Arizona State University Tempe, Arizona	B.S.	2008	Speech and Hearing Science

II CERTIFICATIONS & LICENSES

North Carolina State License in Audiology	2018 – present
Certificate of Clinical Competence in Audiology, American Speech- Language- Hearing Association	2012 – present
Tennessee State License in Audiology	2015 - 2018
Certificate in College Teaching, Vanderbilt Center for Teaching	2014

III EMPLOYMENT

Assistant Professor The University of Utah 390 S 1530 E, BEHS 1204 Salt Lake City, UT 84112	Comm. Sciences and Disorders	2019 – present
Postdoctoral Scholar University of North Carolina at Chapel Hill 170 Manning Drive, Box 7070 Chapel Hill, NC 27599	Otolaryngology Head & Neck Surgery	2018 – 2019
Research Assistant Vanderbilt University 1215 21 st Ave South, MCE 8310 Nashville, TN 37232	Hearing and Speech Sciences	2012 - 2017
Research Assistant Cincinnati Children's Hospital Medical Center 3430 Burnet Ave, MLC 2002 Cincinnati, OH 45229	Division of Audiology	2011 - 2012

Research Assistant Speech and Hearing Sciences 2006 - 2011
 Arizona State University
 975 S Myrtle Ave
 Tempe, AZ 85287

NIH T-35 Research Trainee Hearing and Speech Perception Research 2010
 Boys Town National Research Hospital
 555 N 30th Street
 Omaha, NE 68131

IV **PROFESSIONAL AFFILIATIONS**

Educational Audiology Association	Member
American Auditory Society	Member
American Speech- Language- Hearing Association	Member

V **PUBLICATIONS**

Peer Reviewed Journal Articles

Gustafson, S, Billings, CJ, Hornsby, BWY, & Key, AP (2019). Effect of Competing Noise on Cortical Auditory Evoked Potentials Elicited by Speech Sounds in 7- to 25-year-old Listeners. *Hearing Research*, 373, 103-112.

McGarrigle, R, Gustafson, S, Hornsby, BWY, & Bess, FH. (2019). Behavioral measures of listening effort in school-age children: Examining the effects of signal-to-noise ratio, hearing loss, and amplification. *Ear and Hearing*, 40(2), 381-392.

Gustafson, S, Key, AP, Hornsby, BWY, Bess, FH. (2018). Fatigue Related to Speech Processing in Children with Hearing Loss: Behavioral, Subjective, and Electrophysiological Measures. *Journal of Speech, Language, and Hearing Research*, 61, 1000-1011.

Hornsby, BWY, Gustafson, S, Lancaster, H, Cho, SJ, Camarata, S, & Bess, FH. (2017). Subjective Fatigue in Children with Hearing Loss Using Self- and Parent- Proxy Reports. *American Journal of Audiology*, 26(3S), 393-407.

Gustafson, S, Ricketts, T, & Tharpe, AM. (2017). Hearing Technology Use and Management in School-Age Children: Reports from Data Logs, Parents, and Teachers. *Journal of the American Academy of Audiology*, 28(10), 883-892.

Key, AF, Gustafson, S, Rentmeester, L, Hornsby, BWY, & Bess, FH. (2017). Speech Processing Fatigue in Children: Auditory ERP and Behavioral Measures. *Journal of Speech, Language, and Hearing Research*, 60(7), 2090-2104.

Bess, FH, Gustafson, S, Corbett, BA, Lambert, WE, Camarata, SM, & Hornsby, BWY. (2016). Salivary Cortisol Profiles of Children with Hearing Loss. *Ear and Hearing*, 37(3), 334-344.

Gustafson, S, Davis, H, Hornsby, BWY, & Bess, FH. (2015). Factors Influencing Hearing Aid Use in the Classroom: A Pilot Study. *American Journal of Audiology*, 24(4); 563-568.

Bess, FH, Gustafson, S, & Hornsby, BWY. (2014). How Hard Can it be to Listen? Fatigue in School-Age Children with Hearing Loss. *Journal of Educational Audiology*; 20.

Gustafson, S, McCreery, R, Hoover, B, Kopun, J, & Stelmachowicz, PG. (2014). Listening effort and perceived clarity for normal hearing children with the use of digital noise reduction. *Ear and Hearing*; 35(2), 183-194.

Wiley, S, Gustafson, S, & Rozniak, J. (2013). Needs of Parents of Children who are Deaf/Hard of Hearing with Autism Spectrum Disorder. *Journal of Deaf Studies and Deaf Education*, 19(1), 40-49.

Gustafson, S, Pittman, AL, & Fanning, R. (2013). The Effect of Tubing Length and Coupling Method on Real-Ear to Coupler Difference and Hearing Threshold Measurements. *American Journal of Audiology*, 22, 190-199.

Gustafson, S, & Pittman, AL. (2011). Sentence Perception in Listening Conditions Having Similar Speech Intelligibility Indices. *International Journal of Audiology*; 50, 34-40.

Book Chapters

Tharpe, AM, Ryan, H, & Gustafson, S. (2016). Hearing Instrument Orientation & Device-Use for Children and their Families. In A.M.Tharpe & R.Seewald , *The Comprehensive Handbook of Pediatric Audiology (2nd ed)*, Plural Publishing.

Tharpe, AM, & Gustafson, S. (2015). Management of Children with Mild, Moderate, and Moderate-Severe SNHL. In B.Kesser & M.Kenna, *Otolaryngologic Clinics of North America: Pediatric Hearing Loss*.

Tharpe, AM, & Gustafson, S. (2015). Individuals with Multiple Disabilities. In J.Katz et al, *Handbook of Clinical Audiology (7th ed)*.

Conference Proceedings

McCreery, RW, Gustafson, S, & Stelmachowicz, PG. (2011). Should digital noise reduction be activated in pediatric hearing-aid fittings? *A Sound Foundation Through Early Amplification 2010; Proceedings of the Fifth International Conference*, R.C. Seewald & J. Bamford (Eds). 153-165.

Other (Commentary/Letters/Editorials/Case Reports/Video Film)

American Speech-Language-Hearing Association. (2015, December 27). *Factors Influencing Hearing Aid Use in the Classroom - Samantha Gustafson* [Video file]. Retrieved from: <https://youtu.be/TM8h-vx79uE>

Gustafson, S. (2014, March). Experiencing ASHA as an ARTA Recipient. *Audiology Connections*.

Gustafson, S. (2013, August). Student's Say: Is There a Double Doctor in the House? *The ASHA Leader*.

Gustafson, S. (2012). The T35 Program: Research Training for the AuD Student. *Audiology Today*, July/August, 67-68.

Gustafson, S, & Bullock, R. (2010). Special Olympics: Student Involvement with Global Opportunity. *Audiology Today*, Nov/Dec, 70-71.

Pending Publications

Gustafson, S, Grose, JH, Buss, E. (in preparation). Effects of Stimulus Type on Perceptual Organization and Stability in auditory Streaming.

Picou, EM, Gustafson, S, Ricketts, TA. (in preparation). The effects of microphone technology on word recognition and behavioral listening effort in school-aged children.

VI PRESENTATIONS, INVITED LECTURES, AND SYMPOSIA-FREE COMMUNICATIONS

Invited/Visiting Professor Presentations

Gustafson, S, Hornsby, BWY, Key, AP, & Bess, FH. (2017). Listening is Hard Work: Consequences for Children with Hearing Loss. Modern Developments in Audiology, Nashville, TN.

Gustafson, S, Hornsby, BWY, Camarata, S, Key, AP, & Bess, FH. (2017). Listening-Related Fatigue in School-Age Children with Hearing Loss. Controversial Issues in Pediatric Audiology, New York, NY.

Gustafson, S, Hornsby, BWY, Camarata, S, Key, AP, & Bess, FH. (2017). Listening-Related Fatigue in School-Age Children with Hearing Loss. 47th Annual Mid-South Conference on Communicative Disorders, Memphis, TN.

Gustafson, S. (2016). Wake up! Let's talk about fatigue in the classroom. OPTION Schools, Inc Annual Meeting, Nashville, TN.

Meeting Presentations – International

Gustafson, S. (2017). Pinpointing the Breakdown of Speech-in-Noise Perception in School-Age Children. Frontiers in Hearing Symposium, Estes Park, CO.

Gustafson, S, Hornsby, BWY, & Bess, FH. (2016). A Comparison of Behavioral Measures of Processing Load in Children. Hearing Across the Lifespan, Cernobbio, Italy.

Gustafson, S, Ricketts, TR, & Tharpe, AM. (2014). Information Recall in Children with Cochlear Implants. Symposium of Cochlear Implants in Children, Nashville, TN.

Meinzen-Derr, J, Wiley, S, Bishop, S, Manning, P, Gustafson, S, Murray, D, & Choo, D. (2012). Age of Diagnosis of Autism Spectrum Disorders in Children with Hearing Loss. International Meeting for Autism Research, Toronto, Canada.

Meeting Presentations - National

Gustafson, S, Billings, C, Hornsby, BWY, & Key, AP. (2017). Understanding the Development of Speech-in-Noise Perception Using Auditory Evoked Potentials. American Speech-Language- Hearing Association Meeting, Los Angeles, CA.

McGarrigle, R, Gustafson, S, Hornsby, BWY, & Bess, FH. (2017). Measuring listening effort in children with hearing loss: Single- versus dual-task? American Auditory Society Meeting, Scottsdale, AZ.

Gustafson, S, Camarata, SM, Hornsby, BWY, Key, AF, & Bess, FH. (2015). Objective Assessment of Fatigue in School-Age Children with Hearing Loss. American Speech-Language- Hearing Association Meeting, Denver, CO.

Wiley, S, Meinzen-Derr, J, Gustafson, S, Murray, D, & Manning-Courtney, P. (2013) Autism in Children who are Deaf/Hard of Hearing. Early Hearing Detection and Intervention Meeting, Glendale, AZ.

Poster Presentations (* indicates student project)

Gustafson, S, Buss, E, Grose, JH. (2019). Effects of Stimulus Type on Perceptual Organization and Stability in Auditory Streaming. American Speech- Language- Hearing Association Meeting, Orlando, FL.

Gustafson, S, Grose, JH, Buss, E. (2019). Development of Auditory Stream Segregation: Temporal and Spectral Cues, American Auditory Society, Scottsdale, AZ.

Picou, E, Gustafson, S, Ricketts, TA. (2018). The effects of microphone technology on word recognition and behavioral listening effort in school-aged children. International Hearing Aid Conference, Tahoe City, CA.

Day, B, Kempf, A, Fields, T, Gustafson, S, Fosnight, A, Hughes, R. (2018). Programmatic Changes to Newborn Hearing Screening and Follow-Up: Improving 1-3-6 Benchmarks. AAA 2018, Nashville, TN.

*Hrstic, E, Gustafson, S, Jones, D, & Key, AP. (2017). Cortical Effects of Attention on the N1 Potential in Children and Adults. Poster presented at the Vanderbilt Center for Science Outreach Student Research Symposium, Nashville, TN.

Gustafson, S, Tharpe, AM, & Ricketts, TA. (2016). Beyond the Family: Turning to Teachers for Reports of Children's Hearing Aid Use and Management. American Speech- Language- Hearing Association Meeting, Philadelphia, PA.

Davis, H, Gustafson, S, Hornsby, BWY, & Bess, FH. (2016). "Fatigue Sounds Like Phantom, So Maybe a Squid?" Subjective Reports of Listening-Related Fatigue in Children with Hearing Loss. A Sound Foundation Through Early Amplification, Atlanta, GA.

*Gustafson, S, Suba, E, Camarata, SM, Hornsby, BWY, & Bess, FH. (2015). Examining the Validity of the Vanderbilt Hearing-Related Fatigue Scale: A Pilot Study. Poster presented at the American Speech- Language- Hearing Association Meeting, Denver, CO.

Davis, H, Gustafson, S, Bess, FH. (2015). Beyond the Fitting Appointment: Hearing Aid and FM Use Patterns in the Classroom. *AudiologyNOW!* 2015, San Antonio, TX.

*Headley, A, Fustos, E, Gustafson, S, Bess, FH. (2015). Profiling Hearing Aid Use in School-Age Children with Mild-to-Moderate Hearing Loss. Poster presented at the Early Hearing Detection and Intervention Meeting, Louisville, KY.

Gustafson, S, Ricketts, TR, & Tharpe, AM. (2014). Information Recall in Children with Cochlear Implants. *American Speech- Language- Hearing Association Meeting*, Orlando, FL.

*Headley, A, Gustafson, S, Hornsby, BWY, & Bess, FH. (2014). A Comparison of Parental- & Self-Reports of Fatigue in Children with Hearing Loss. Poster presented at the American Speech- Language- Hearing Association Meeting, Orlando, FL.

Gustafson, S, Key, AF, Hornsby, BWY, & Bess, FH. (2014). Objective Assessment of Speech in Noise Abilities & the Effect of Amplification in Children with Hearing Loss. *International Hearing Aid Conference*, Tahoe City, CA.

*Ballard, R, Gustafson, S, Needham, A, & Tharpe, AM. (2013). The Effects of Auditory and Visual Stimulation on Exploration in Infancy. Poster presented at the American Speech- Language- Hearing Association Meeting, Chicago, IL.

Gustafson, S, DeLong, AD, Werfel, KL, & Bess, FH. (2013). Classroom Noise and Fatigue in Children with Normal Hearing and Children with Hearing Loss. *A Sound Foundation Through Early Amplification*, Chicago, IL.

Gustafson, S, DeLong, AD, Werfel, KL, & Bess, FH. (2013). Classroom Noise and Fatigue in Children with Normal Hearing and Children with Hearing Loss. *American Speech- Language- Hearing Association Meeting*, Chicago, IL.

Gustafson, S, Rozniak, J, & Wiley, S. (2013). Children with Autism Spectrum Disorder and Hearing Loss: Professional Experiences. *Early Hearing Detection and Intervention Meeting*, Glendale, AZ.

Gustafson, S, Rozniak, J, Walterman, R, & Wiley, S. (2013). Family Perspectives on Autism Spectrum Disorder and Hearing Loss. *Early Hearing Detection and Intervention Meeting*, Glendale, AZ.

Gustafson, S, Rozniak, J, Walterman, R, & Wiley, S. (2012). Family Perspectives on Autism Spectrum Disorder and Hearing Loss. *Association of University Centers on Disabilities Conference*, Washington DC.

Gustafson, S, Rozniak, J, & Wiley, S. (2012). Children with Autism Spectrum Disorder and Hearing Loss: Professional Experiences. *Association of University Centers on Disabilities Conference*, Washington DC.

Gustafson, S, McCreery, R, Hoover, B, Kopun, J, & Stelmachowicz, PG. (2011). Ease of listening and speech recognition for normal hearing children with the use of digital noise reduction. *American Auditory Society*, Scottsdale, AZ.

Gustafson, S, McCreery, RW, Hoover, B, Kopun, J, & Stelmachowicz, PG. (2010). Ease of listening and speech recognition for normal hearing children with the use of digital noise reduction. A Sound Foundation Through Early Amplification, Chicago, IL.

Gustafson, S, & Pittman, AL. (2008). Sentence Perception in Children and Adults for a Series of Listening Conditions Having Equivalent Speech Intelligibility Indices. American Auditory Society, Scottsdale, AZ.

VII GRANT WRITING AND RELATED ACTIVITIES

Active

Under Review

“Development of new paradigms to understand the effects of auditory distraction on auditory scene analysis in children” (S Gustafson, PI), Hearing Health Foundation Emerging Research Grant. Submitted February 2020. Total direct costs: \$48,383.72

Past Grants

“Cortical Associates of Speech-in-Noise Perception from Childhood to Adulthood” (S Gustafson, PI), Vanderbilt Clinical and Translational Science Award (VR21011). 2016-2017. Total direct costs: \$6,946

“Short Term Memory and Temporal Order Coding,” (S Gustafson, PI), Vanderbilt Clinical and Translational Science Award (VR8184). 2013-2014. Total direct costs: \$621

Unfunded

“Auditory Distraction and Temporal Properties of Perceptual Organization” (S Gustafson, PI), College of Health Research Pilot Grant. 2019. Total direct costs: \$22,406

“Cortical Associates of Speech-in-Noise Perception from Childhood to Adulthood,” (S Gustafson, PI), National Institute on Deafness and Other Communication Disorders: Research Dissertation Fellowship for Au.D. Audiologists (F32). 2016. Total direct costs: \$215,160

“Cortical Associates of Speech-in-Noise Perception from Childhood to Adulthood,” (S Gustafson, PI), American Academy of Audiology Foundation: Research Grants in Hearing & Balance. 2016. Total direct costs: \$7,159

VIII TEACHING, ADVISING AND OTHER ASSIGNMENTS

Courses Taught (since last review)

CSD4200 – Hearing Science	Fall 2019 43 Students
MDE5320 - Introduction to Amplifications for Infants & Children	Fall 2014 11 Students
MDE5320 - Introduction to Amplifications for Infants & Children	Fall 2013 8 Students

Curriculum DevelopmentTrainee SupervisionUndergraduate Student Mentorship

2020 – current: Ashley Flores (Honors Thesis) Advisor

Graduate Student Committees

2019 – current: Jessica Chen (Ph.D. Dissertation Committee) Member

Student Evaluation of Teaching

CSD 4200 – Fall 2019 (28/43 responses)	Average student evaluation: 5.76/6.0
MDE 5320 – Fall 2014 (8/11 responses)	Average student evaluation: 4.636/5.0
MDE 5320 – Fall 2013 (5/8 responses)	Average student evaluation: 4.676/5.0

Peer Teaching Evaluation**IX EDITORIAL EXPERIENCE**

Editorial Assistant, A.M.Tharpe & R.Seewald , The Comprehensive Handbook of Pediatric Audiology (2nd ed), Plural Publishing

X REVIEWER EXPERIENCE

American Journal of Audiology
 Journal of Educational, Pediatric, & (Re)Habilitative Audiology
 Journal of the American Academy of Audiology
 Journal of Educational Audiology
 Journal of Speech, Language, Hearing Research
 International Journal of Audiology

XI GRANT REVIEW COMMITTEE/STUDY

Graduate Professional Student Association, Arizona State University

XII SYMPOSIUM/MEETING CHAIR/COORDINATOR XIII**AWARDS**National

Ph.D. Scholarship (\$20,000), Council of Academic Programs in Communication Sciences and Disorders	2017
Research Mentoring-Pair Travel Award (\$750 + Conference Registration), Mentor: <i>Curtis Billings, PhD</i> , American-Speech-Language-Hearing Association	2016
New Century Scholars Doctoral Scholarship (\$10,000), American-Speech-Language-Hearing Association	2015

Student Research Travel Award (\$500 + Conference Registration), American-Speech-Language-Hearing Association	2015
Student Travel Awards Reimbursement (STAR) stipend (\$500), American Academy of Audiology Foundation	2014
Graduate Student Scholarship (\$5,000), American-Speech-Language-Hearing Foundation	2013
Audiology/Hearing Science Research Travel Award (\$500 + Conference Registration), American-Speech-Language-Hearing Association	2013
LEND Fellowship, Division of Developmental & Behavioral Pediatrics, Cincinnati Children's Hospital and Medical Center	2011 – 2012
Empowering People Academic Scholarship (\$5,000), American Academy of Audiology Foundation	2011
Helen Woodruff Nolop Scholarship in Audiology & Allied Fields (\$500), Delta Zeta Foundation	2008
Access to Undergraduate Research Scholarship (\$5,000), Women & Philanthropy	2007

State

University

Graduate Student Travel Grant (\$500), Vanderbilt University Graduate School	2017
Graduate Student Travel Grant (\$500), Vanderbilt University Graduate School	2016
Travel Award (\$250), Vanderbilt Kennedy Center	2014
Graduate Student Travel Grant (\$500), Vanderbilt University Graduate School	2014
Traineeship in Pediatric Audiology, Speech and Hearing Sciences Department, US Department of Education, Arizona State University	2008 – 2012
Fellowship Award (\$3,000), Department of Speech and Hearing Sciences, Arizona State University	2008-2009
Foundation for the Future Scholarship (\$1,000), Arizona State University Student Foundation	2008
Provost Scholarship & Tuition Waiver, Arizona State University	2004-2008

XIV SERVICE

University Level

Health Sciences Level

College Level

Department Level

Service at Affiliated Institutions

Service at Previous Institutions

PhD Student Faculty Representative, Department of Hearing and Speech Sciences, Vanderbilt University (2015-2017)
 Prospective AuD Student FAQ Guide, Department of Speech and Hearing Sciences, Arizona State University (2009-2012)

Service to Profession

Member, Scientific and Professional Education Board, ASHA (2016-2018)
 Member, Topic Committee for Intervention/Rehabilitation for Infants and Children with
 Hearing Loss or Balance Disorders, ASHA (2017)
 Subject Matter Expert, ASHA Practice Portal (2013-2014)
 Humanitarian Chair, Student Academy of Audiology Board of Directors (2010-2011)

Public Service

Hearing Screener, Special Olympics Healthy Hearing – Ohio, Arizona (2010-2012)

XV MISCELLANEOUS SCHOLARSHIP

XVI CLINICAL EXPERIENCE

Audiologist Vanderbilt Bill Wilkerson Center
Monroe Carell Jr Children's Hospital at Vanderbilt 2015-2017
 Served as a clinical Audiologist completing diagnostic evaluations with patients in the ENT
 clinic ranging from birth through 17 years.

Doctor of Audiology Extern Division of Audiology
Cincinnati Children's Hospital & Medical Center 2011-2012
 Served as a full-time clinical Audiology extern with patients ranging from birth through 21
 years, completing specialty rotations including auditory processing disorder evaluations,
 aural rehabilitation, balance assessment, cochlear implant assessment and management,
 electrophysiology, and evaluation of patients in the NICU. Also trained as a Division of
 Developmental and Behavioral Pediatrics LEND Fellow. Leadership Education in
 Neurodevelopmental Related Disabilities (LEND) is an interdisciplinary training program
 that prepares professionals and graduate students for leadership roles in providing health
 and related services for children with neurodevelopmental disabilities and their families.

Audiology Intern Desert Valley Regional Co-op
AZ School for the Deaf and Blind 2011
 Performed comprehensive audiologic evaluations for school-aged children and assisted in
 management of FM system distribution among schools AZ schools who are members of the
 Desert Valley Regional Co-op.

Audiology Intern Children's Rehabilitative Services
St. Joseph's Hospital, Phoenix, AZ 2010
 Trained in pediatric hearing aid evaluation/fitting/follow-up services. Participated as a
 student clinician on the craniofacial team and ENT clinic.

Audiology Intern Audiology & Cochlear Implant Program
Phoenix Children's Hospital 2010
 Established skills in pediatric diagnostic audiology and worked with the oncology
 department and children receiving chemotherapy for ototoxicity monitoring.

Graduate Student Clinician ASU Speech & Hearing Clinic

Arizona State University

2008-2009

Assessed adult and pediatric patients with hearing complaints or disorders. Provided adult and pediatric aural (re)habilitation through hearing aid fittings/adjustments, counseling, auditory training and speechreading exercises.