

CURRICULUM VITAE

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MyNCBI: <https://www.ncbi.nlm.nih.gov/myncbi/1x9Ytg8ldckB/bibliography/public/>

EDUCATION

Undergraduate

- University of North Carolina, Chapel Hill, NC, 1989-1993, Bachelor of Arts in English, Minor in French awarded May 16, 1993.

Graduate

- University of Tennessee, Knoxville, TN, 1993-1995, Master of Arts in Audiology awarded May 12, 1995.
 - Thesis title: Growth of distortion product otoacoustic emissions: Dependence on frequency separation and frequency.
- University of Texas, Austin, TX, 1995-1999, Doctor of Philosophy in Hearing Science awarded December 18, 1999.
 - Dissertation title: The acute effects of nicotine on physiologic responses from the human auditory system.

HONORS / AWARDS

- Recipient of the 2016 UT Alumni Association's Distinguished Service Professorship.
- "2016 Student Travel Award" from the Society for the Neurobiology of Language Board of Directors to David Thornton (Ashley **Harkrider**, mentor) to present "Sex-related sensorimotor processing differences during speech discrimination tasks revealed in EEG mu rhythms," London, England, August, 2016.
- Identified by campus leadership as an "exemplar" chair to participate in a focus group, advisory to the UT President, with the purpose of identifying critical resources and crafting case studies to support new chairs/heads at UT
- Selected as a 2015 Distinguished Alumnus by the faculty of the Department of Communication Sciences and Disorders and the Dean of the College of Communication, The University of Texas, Austin.
- "Meritorious Poster Submission" from ASHA to Tim Saltuklaroglu, Ashley **Harkrider**, Megan Cuellar, and Andy Bowers for "Temporal aspects of sensorimotor integration in speech perception

and production: An independent component analysis study.” Presented at the annual meeting of ASHA, Chicago, IL, November 15, 2013.

- “Meritorious Poster Submission” from ASHA to Andy Bowers, Tim Saltuklaroglu, Ashley **Harkrider**, and Megan Cuellar for “Sensorimotor integration during speech and non-speech discrimination.” Presented at the annual meeting of ASHA, Atlanta, GA, November 15, 2012.
- “Best Research Poster Award” from the EEG and Clinical Neuroscience Society (ECNS) to Andy Bowers, Tim Saltuklaroglu, Ashley **Harkrider**, and Megan Cuellar for “Sensorimotor activity in speech perception measured via changes in Mu rhythm activity.” Presented at the annual congress of the ECNS, Bristol, VA, September 2012.
- “Resident and Graduate Student Poster Session” from the National Institute of Health and the American Auditory Society to Matt Wilson, Ashley **Harkrider**, and Kristin King for “Auditory-evoked P300s from athletes with and without history of concussion.” Presented at the annual meeting of the American Auditory Society, Scottsdale, AZ, March 2012.
- “Student Research Travel Award (SRTA)” from ASHA to Megan Cuellar with Drs. Tim Saltuklaroglu and Ashley **Harkrider** as Faculty Mentors to attend the ASHA Annual Convention in San Diego, California, November 17-19, 2011 to present “Mu wave Suppression During Phonological And Tone Sequence Segmentation Tasks.”
- Selected by colleagues as a faculty member of Alpha Eta Society, a national honor society for allied health professionals, based on distinguished scholarship, leadership, and service to Allied Health Education. Inducted May 27, 2011.
- “Resident and Graduate Student Poster Session” from the National Institute of Health and the American Auditory Society to Matt Wilson and Ashley **Harkrider** for “Effects of complexity of visual distracter on auditory P300.” Presented at the annual meeting of the American Auditory Society, Scottsdale, AZ, March, 2011.
- “AAA Summer Research Fellowship Award” presented at the annual meeting of the American Academy of Audiology to Ji Young Lee, B.S. with Ashley **Harkrider**, Ph.D. as Faculty Mentor for funding of grant proposal “Effects of Phonological Processing on Behavioral and ERP Responses” on April 15, 2010.
- “James Jerger Student Research Presentation Award” presented at the annual meeting of the American Academy of Audiology to C. Dane Bowers, B.S. with Ashley **Harkrider**, Ph.D. as Research Advisor for presentation of “Cortically mediated release from inhibition in the human cochlea” on April 5, 2008.
- “Student Research Forum Award” presented at the annual meeting of the American Academy of Audiology to Joanna Webster Tampas, M.A. with Ashley **Harkrider**, Ph.D. as Research Advisor for presentation of “Auditory evoked potentials and background noise acceptance” on April 7, 2006.
- “The Best of Audiology Literature 2004” by H. Gustav Mueller in *The Hearing Journal*: Manuscript named as one of the “Most Thought Provoking.” Rogers, D.S., **Harkrider**, A.W., Burchfield, S.B., Nabelek, A. (2003). The influence of listener’s gender on the acceptance of background noise. *J Am Acad Audiol*, 14, 372-382.
- Manuscript selected as feature article: Rogers, D.S., **Harkrider**, A.W., Burchfield, S.B., Nabelek, A. (2003). The influence of listener’s gender on the acceptance of background noise. *J Am Acad Audiol*, 14, 372-382.

SOCIETY MEMBERSHIPS

- American Speech Language Hearing Association (ASHA)
- Council of Academic Programs in Communication Sciences and Disorders (CAPCSD)

UNIVERSITY (AND COLLEGE) APPOINTMENTS

- July 1, 2013 to present – Professor, Department of Audiology and Speech Pathology, University of Tennessee Health Science Center College of Health Professions.
- July 1, 2011 to present – Chair, Department of Audiology and Speech Pathology, University of Tennessee Health Science Center College of Allied Health Sciences.
- August 1, 2009 to June 30, 2011 – Interim Chair, Department of Audiology and Speech Pathology, University of Tennessee Health Science Center College of Allied Health Sciences.
- July 1, 2009 – July 31, 2009 – Program Director, Department of Audiology and Speech Pathology, University of Tennessee Health Science Center College of Allied Health Sciences.
- July 1, 2009 – June 30, 2013 – Associate Professor, Department of Audiology and Speech Pathology, University of Tennessee Health Science Center College of Allied Health Sciences.
- January 1, 2008 – June 30, 2009 – Associate Head of Department, Department of Audiology and Speech Pathology, University of Tennessee, Knoxville College of Arts and Sciences.
- August 1, 2006 – June 30, 2009 - Associate Professor, Department of Audiology and Speech Pathology, University of Tennessee College of Arts and Sciences.
- January 2000 – July 31, 2006 – Assistant Professor, Department of Audiology and Speech Pathology, University of Tennessee College of Arts and Sciences.

SUMMARY OF ACCOMPLISHMENTS IN CURRENT ACADEMIC APPOINTMENT

- Management of balanced, “no waste” departmental and clinical budgets totaling approx. \$4 million
- Oversight of four on-campus clinics, with over 10,000 services provided per year and growth of annual gross revenue from less than \$300,000 to over \$1million while maintaining high quality clinical training for graduate students
- Oversight of department’s research growth from essentially no extramural support to approx. \$4 million
- Negotiation and renegotiation of contracts with third party payers (private insurers and Medicaid/Medicare providers) to maximize reimbursement rates and expand insurance options
- Working with Executive Vice Chancellor to relocate ASP into state of the art, renovated facility encompassing 60,000 square feet. Phase one complete. Phase two funded and in design phase.
- Work with UT Development officer to secure long-term scholarships, funding for graduate students, and support for patient care by private donors. Increased number of donors and amount donated significantly
- Transitioned four degree programs, students, faculty, and staff administratively from University of Tennessee Knoxville to University of Tennessee Health Science Center
- Administration of four degree programs, with significant growth in all programs (BS, MS, AuD, PhD)
- Worked with administrators and student services on both UTK and UTHSC campuses to implement model joint degree program (BS in ASP).

- Management of Department of Audiology and Speech Pathology faculty and staff (n = 50)
- Recruitment and retention of faculty from top tier institutions
- Evaluation and oversight of promotion and tenure applications for well-qualified teaching and research trained faculty in the department
- Transition of approx. 19 clinical staff to clinical faculty with appropriate titles, ranks, promotion ladders, salaries, and distribution of responsibilities in teaching, research, service
- Revised department's annual expectations for faculty performance and expectations for tenure and promotion while gaining faculty consensus
- Acquisition of productivity data for clinical faculty in the department
- Strategically strengthening and marketing specialty clinics to increase clinical education opportunities and service provision (e.g., FEES, dizziness, adult neuro, voice, tinnitus)
- Worked with UT Government Relations and Executive Vice Chancellor to educate and lobby state legislators and successfully overturn restrictive hearing aid legislation
- Incorporated ICD-10 into clinical billing process and ensure maintenance of current, best-billing practices, resulting in clean HIPAA and Medicare audits
- Prepared and implemented accreditation site visit in 2014 for MS SLP and AuD programs with no citations or partial citations for either program. Annual accreditation reports for both programs accepted with no citations every year as Chair
- Created the ASP Community Development Board comprised of community supporters from various constituencies, which meets every other month to provide support for departmental initiatives and enhance visibility in the community
- Secured grants from Regal Foundation and Scottish Rite to underwrite patient care for individuals who cannot afford it
- Creator and editor-in-chief of annual ASP newsletter sent to over 5000 alumni, donors, community supporters, health care professionals, administrators, and others
- Revamped department website with focus on multiple departmental missions and audiences
- Creating vibrant outreach program in the community including to medical professionals and alumni with a focus on re-engaging both
- Mentoring doctoral students who have gone on to faculty positions and been successfully tenured and promoted (Gallaudet, Wash State U, U. Arkansas, N. Illinois, Washington State, Missouri, S. Alabama, Hallym)
- Coordinate and host major community-wide celebrations including the 40th anniversary of the Pediatric Language Clinic, the 60th anniversary of the department and ground-breaking ceremony, the first annual parent's weekend for graduate students and families, and dinner with Tamika Catchings
- Receive excellent feedback from faculty, staff, administrators on university's performance surveys and annual reviews
- Maintain strong academic credentials and active research program
- National and international recognition as evidenced by invitations to present, author, or serve at these levels

PRACTICE / PROFESSIONAL EXPERIENCE

- Clinical Fellowship Year, University of Texas Speech and Hearing Center, January 1998 – May 1999.

TEACHING EXPERIENCE

Semester	Course name and number	# students	Credits
Spring 2000	ASP 576 – Electrophysiology I	15	3
Fall 2000	ASP 507 – Anatomy/Physiology of Aud System	17	3
Spring 2001	ASP 576 – Electrophysiology I	17	3

Fall 2001	ASP 507 – Anatomy/Physiology of Aud System	12	3
Fall 2002	ASP 507 – Anatomy/Physiology of Aud System	6	3
Spring 2003	ASP 576 – Physiol Assess of Aud System I	6	3
Spring 2003	ASP 545 – SLM and Hearing Conservation	6	3
Fall 2003 ^a	ASP 507 – Anatomy/Physiology of Aud System	11	3
Fall 2003	ASP 583 – Physiol Assess of Aud System II	9	3
Spring 2004	ASP 576 – Physiol Assess of Aud System I	11	3
Spring 2004	ASP 545 – SLM and Hearing Conservation	13	3
Fall 2004	ASP 507 – Anatomy/Physiology of Aud System	8	3
Fall 2004	ASP 583 – Physiol Assess of Aud System II	12	3
Fall 2004	UGHS – Sex, Drugs, Rock-n-Roll & Aud Sys	22	1
Spring 2005	ASP 576 – Physiol Assess of Aud System I	8	3
Fall 2005	ASP 507 – Anatomy/Physiology of Aud System	8	3
Fall 2005	ASP 583 – Physiol Assess of Aud System II	6	3
Spring 2006	ASP 576 – Physiol Assess of Aud System I	8	3
Spring 2006	ASP 545 – SLM and Hearing Conservation	8	3
Summer 2006	ASP 574 – Pediatric Audiology	8	3
Fall 2006	ASP 507 – Anatomy/Physiology of Aud System	16	3
Fall 2006	ASP 583 – Physiol Assess of Aud System II	6	3
Spring 2007	ASP 576 – Physiol Assess of Aud System I	16	3
Spring 2007	ASP 545 – SLM and Hearing Conservation	9	3
Summer 2007	ASP 574 – Pediatric Audiology	18	3
Fall 2007	ASP 507 – Anatomy/Physiology of Aud System	6	3
Fall 2007	ASP 583 – Physiol Assess of Aud System II	12	3
Spring 2008	ASP 576 – Physiol Assess of Aud System I	6	3
Spring 2008	ASP 545 – SLM and Hearing Conservation	16	3
Summer 2008	ASP 574 – Pediatric Audiology	7	3
Fall 2008 ^a	ASP 507 – Anatomy/Physiology of Aud System	7	3
Fall 2008	ASP 583 – Physiol Assess of Aud System II	16	3
Spring 2009 ^a	ASP 576 – Physiol Assess of Aud System I	7	3
Summer 2009	ASP 574 – Pediatric Audiology	6	3
Fall 2009 ^a	ASP 507 – Anatomy/Physiology of Aud System	10	3
Fall 2009	ASP 583 – Physiol Assess of Aud System II	6	3
Spring 2010	ASP 576 – Physiol Assess of Aud System I	10	3
Summer 2010	ASP 574 – Pediatric Audiology	9	3
Fall 2010 ^a	ASP 507 – Anatomy/Physiology of Aud System	13	3
Fall 2010	ASP 583 – Physiol Assess of Aud System II	7	3
Spring 2011	ASP 576 – Physiol Assess of Aud System I	13	3
Summer 2011	ASP 574 – Pediatric Audiology	13	3
Fall 2011 ^a	ASP 507 – Anatomy/Physiology of Aud System	11	3
Fall 2011	ASP 583 – Physiol Assess of Aud System II	10	3
Summer 2012	ASP 574 – Pediatric Audiology	11	3
Fall 2012	ASP 583 – Physiol Assess of Aud System II	11	3
Summer 2013	ASP 574 – Pediatric Audiology	16	3
Fall 2013	ASP 583 – Physiol Assess of Aud System II	12	3
Summer 2014	ASP 574 – Pediatric Audiology	15	3
Fall 2014	ASP 583 – Physiol Assess of Aud System II	14	3
Summer 2015	ASP 574 – Pediatric Audiology	16	3
Fall 2015	ASP 583 – Physiol Assess of Aud System II	16	3
Summer 2015	ASP 574 – Pediatric Audiology	13	3
Fall 2016	ASP 583 – Physiol Assess of Aud System II	17	3
Fall 2017	ASP 583 – Physiol Assess of Aud System II	13	3
Fall 2018	ASP 583 – Physiol Assess of Aud System II	16	3
Fall 2019	ASP 583 – Physiol Assess of Aud System II	16	3
Fall 2020	ASP 583 – Physiol Assess of Aud System II	20	3
Fall 2021	ASP 583 – Physiol Assess of Aud System II	18	3

^a Ph.D. students taught ASP 507 to fulfill the supervised teaching requirement in the Ph.D. program.

INVITED LECTURES

International

1. Saltuklaroglu, T. **Harkrider**, A.W. What the EEG mu rhythm reveals about the neurophysiology of stuttering. Presented at the World Congress for People Who Stutter, Hvergardir, Iceland. June 24, 2019.

National

1. **Harkrider**, A. W. (2015, November). Presented during the Distinguished Alumni Research Colloquium. The University of Texas, Austin. On the occasion of the grand reopening of the Department's facilities.
2. **Harkrider**, A.W., Wilson, M., King, K. Concussion symptoms and behavioral test results: Is the story complete? Presented at the annual meeting of the American Speech-Language-Hearing Association in Orlando, FL, November 2014.
3. Johnstone, P.M., **Harkrider**, A.W., Sievers, R., McWatters, C.N., Ward, A., Smelcer, L., Hedrick, M., Little, J. Using Commercially-Available Clinic Equipment to Measure Slow Cortical Potentials in Children with Cochlear Implants. "Cochlear Implant (CI) Crash," Madison, WI, October 8, 2010.
4. **Harkrider**, A.W. Acceptable Noise Level: A Clinical Measure of Hearing Aid Outcome. Presented at Innovations in Clinical Communication Sciences (ICCS); Harrisonburg, Virginia, October 20, 2007.
5. **Harkrider**, A.W. Nicotine as a Tool for Studying Auditory Function. Presentation at the University of Texas, Department of Communication Sciences and Disorders; Austin, Texas, September 7, 2001.
6. **Harkrider**, A.W. Acute Effects of Nicotine on the Auditory Systems of Non-Smokers. Presentation at the University of Kansas, Department of Audiology and Speech Pathology; Kansas City, Kansas, August 12, 2001.
7. **Harkrider**, A.W. Does Nicotine Affect Hearing? Presentation at the Press Conference at the 139th Meeting of the Acoustical Society of America; Atlanta, Georgia, May 31, 2000.

EDITORIAL (PEER REVIEW) APPOINTMENTS/PROFESSIONAL SERVICE

- 2002 American Speech and Hearing Association (ASHA) Convention submission reviewer.
- 2003 Acoustical Society of America (ASA) Convention submission reviewer.
- 2003- Journal of Speech, Language, and Hearing Research (JSLHR) - Manuscript reviewer.

- 2005- Ear and Hearing – Manuscript Reviewer.
- 2005 National Institutes of Health Center for Scientific Review Special Emphasis Panel, 2005/10 Council ZRG1 IFCN-G 10B – Grant application reviewer.
- 2007- Journal of the Acoustical Society of America (JASA) – Manuscript reviewer
- 2007- American Journal of Audiology (AJA) - Manuscript reviewer
- 2007- Journal of the American Academy of Audiology (JAAA) – Assistant editor
- 2008 American Academy of Audiology (AAA) Adult Hearing Assessment/Diagnosis Guidelines – author and reviewer
- 2010 Journal of Speech, Language, and Hearing Research (JSLHR) – Guest Associate Editor
- 2010 Tenure portfolio – External reviewer
- 2010- Neuropsychologia - Manuscript reviewer
- 2010- International Journal of Audiology (IJA) – Manuscript reviewer
- 2012 Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) – Scholarship application reviewer
- 2012-2015 ASHA Perspectives Sig 6 Hearing and Hearing Disorders - Associate Editor
- 2013 Journal of Speech, Language, and Hearing Research (JSLHR) – Guest Associate Editor
- 2015 Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) Convention submission reviewer.
- 2015 Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) – Chair, Nominations Committee
- 2015 External Referee, Promotion and Tenure Dossier for James Madison University
- 2015-2019 Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) – Member, Research, Scholarship, and Academic Development Committee
- 2016-2019 Editor, ASHA Perspectives, Sig 6.
- 2017 External Referee, Promotion Dossier for Western Ontario University, Canada.
- 2017- Member, Vision for Audiology Working Group, ASHA
- 2017- Action Team Leader, Research and Development Focus Group, Future of Audiology (FOA) Coalition
- 2018 – 2019 Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) - Member, Conference Planning Committee

UNIVERSITY/COLLEGE COMMITTEES

- 2003-2006 Dean's Advisory Committee, University of Tennessee, Knoxville, College of Arts and Sciences.
- 2007-2008 Evaluation Committee for Reappointment of Department Heads, University of Tennessee, Knoxville, College of Arts and Sciences.
- 2009-2010 Search Committee Member, Dean of College of Allied Health Sciences, University of Tennessee Health Science Center
- 2009- College Council, University of Tennessee Health Science Center, College of Health Professions
- 2010- Chair, Oversight Committee for ASP students and faculty, University of Tennessee, Knoxville and University of Tennessee Health Science Center
- 2012- Member, College of Allied Health Sciences Efficiency and Effectiveness Committee
- 2013-2014 Search Committee Member, Vice Chancellor for Research for UTHSC
- 2014-2015 Search Committee Member, Vice Chancellor for Student, Faculty, and Academic Affairs for UTHSC
- 2014- Strategic Planning Task Force, College of Health Professions
- 2014- Faculty Development Committee, College of Health Professions
- 2015-2016 Search Committee Member, Associate Vice Chancellor for Academic Affairs for UTHSC
- 2015- Research Cabinet Member, Vice Chancellor for Research for UTHSC, Second Term
- 2016 Participated in UT system-wide focus group to identify and refine resources needed to better support new chairs/heads. Advisory to the President of UT.
- 2016-2017 Search Committee Member, Dean, College of Health Professions, University of Tennessee Health Science Center
- 2018 Search Committee Member, Director of Development – East TN, UT Foundation, Office of Development & Alumni Affairs, University of Tennessee Health Science Center.
- 2017-2018 Search Committee Member, Dean, Graduate School of Medicine, University of Tennessee Health Science Center
- 2019 Internal Reviewer, Tenure Application, University of Tennessee Health Science Center
- 2021 Search Committee Member, Chair, Physical Therapy, University of Tennessee Health Science Center
- 2021 Search Committee Member, Vice Chancellor, Academic, Faculty, and Student Affairs, University of Tennessee Health Science Center

DEPARTMENTAL COMMITTEES

- 2000 AuD Subcommittee, audiology curriculum, doctoral education, search committee for department head (chair)

- 2001 AuD Subcommittee, audiology curriculum, doctoral education, search committee for department head (chair), advisory
- 2002 AuD Subcommittee, audiology curriculum, doctoral education, advisory, Sol Adler conference, audiology program development (chair)
- 2005 AuD Subcommittee, audiology curriculum, doctoral education, advisory, Sol Adler conference, audiology program development (chair), audiology faculty search committee (chair)
- 2009 audiology curriculum, doctoral education, audiology admissions, scholarship, PR and recruitment, billing and reimbursement
- 2011 audiology curriculum, doctoral education, audiology admissions, scholarship, PR and recruitment, billing and reimbursement, distance education, search committee for administrative specialist, search committee for business manager
- 2012 doctoral education, audiology admissions, scholarship, PR and development, billing and reimbursement, distance education, search committee for business manager
- 2013 doctoral education, audiology admissions, scholarship, PR and development, billing and reimbursement, social media committee
- 2014 audiology admissions, scholarship, PR and development, billing and reimbursement, branding
- 2015 audiology admissions, scholarship, PR and development, billing and reimbursement, branding
- 2016 audiology admissions, scholarship, PR and development, billing and reimbursement, branding
- 2017 audiology admissions, scholarship, PR and development, billing and reimbursement, branding
- 2018 audiology admissions, scholarship, PR and development, billing and reimbursement, branding
- 2019 audiology admissions, scholarship, PR and development, billing and reimbursement, branding
- 2020 audiology admissions, scholarship, PR and development, billing and reimbursement, branding
- 2021 audiology admissions, scholarship, PR and development, billing and reimbursement, branding

GRADUATE STUDENT RESEARCH COMMITTEES

- 2000 – Cliff Franklin (Ph.D. project committee member) – defended project entitled: Comparison of loudness tolerance and acceptance of background noise while listening to speech.

Cliff Franklin (Ph.D. project supervisor) – defended project entitled: Perception of voiceless stop consonants measured by mismatch negativity and P300.
- 2001 – Lana Colvard (Master's thesis committee member) – defended thesis entitled: The intelligibility of speech produced by young children with cochlear implants

Cliff Franklin (Ph.D. project committee member) – defended project entitled: Background noise acceptance as a function of listening presentation level.
- 2002 – Jill Fussner (Master's thesis committee member) – defended thesis entitled: The determinants of communication ability in CHARGE syndrome.

Joanna Tampas (Master's thesis supervisor) – defended thesis entitled: Comparison of behavioral discrimination, MMN, and P300 to speech and non-speech stimuli.

Susie Rogers (Master's thesis supervisor) – defended thesis entitled: The influence of listener's sex on the acceptance of background noise.

2003 – Stephen Brad Smith (Master's thesis supervisor) – defended thesis entitled: Relations of measures of auditory efferent activity and speech-in-noise performance

Cliff Franklin (Ph.D. dissertation supervisor) – defended dissertation entitled: The effects of auditory training and generalization on electrophysiological and behavioral measures of frequency discrimination.

Joanna Tampas (Ph.D. project supervisor) – defended project entitled: Electrophysiologic differences between females with low and high acceptance of background noise.

2004 – Chirs Clinard (Master's thesis supervisor) – defended thesis entitled: Measures of auditory inhibition in female smokers and non-smokers

Joanna Tampas (Ph.D. project supervisor) – defended project entitled: Electroencephalographic and cortical auditory evoked responses in females with low and high acceptance of background noise.

2006 – Kristy Lowery (Ph.D. project committee member) – defended project entitled: Objective and subjective evaluation of low-frequency expansion in wide dynamic range compression hearing instruments.

2007 – Rachel Seivers (Au.D. project co-supervisor) – defended project entitled: An evoked potential study of the developmental maturation of the auditory pathway in children with bilateral and unilateral cochlear implants.

Courtney Hill (Au.D. project supervisor) – defended project entitled: Comparing young normal adults to young normal children on the Biomap.

Dane Bowers (Au.D. project supervisor) – defended project entitled: The effects of auditory focused attention on otoacoustic emission suppression in normal hearing listeners.

Joanna Tampas (Ph.D. Dissertation supervisor) – defended dissertation entitled: Acceptable noise levels and electrophysiological measures in listeners with hearing impairment.

2008 – Stephen Crawcour (Ph.D. project co-supervisor) – defended project entitled: Mu wave suppression to visual and acoustic speech: EEG evidence of mirror neuron activity.

Samantha Niemann-Powell (Ph.D. project supervisor) – defended project entitled: The effects of hormone replacement therapy on auditory physiology, behavior, and perception

2009 – Dania Rishiq (Ph.D. project supervisor) – defended project entitled: Acceptable noise level and temporal processing.

Andy Bowers (Ph.D. project co-supervisor) – defended project entitled: Mu wave suppression to visual oro-facial motion during auditory speech and noise in normal adults.

Andy Bowers (Ph.D. project co-supervisor) – defended project entitled: Mu wave suppression to visual oro-facial motion during auditory speech and noise in English Second Language (ESL) listeners.

Natalie Murphy (Au.D. project co-supervisor) – defended project entitled: Speech-evoked auditory brainstem responses in quiet and noise and reading scores in children with unilateral hearing loss.

Sunni Shepherd (Au.D. project supervisor) – defended project entitled: Effects of the 60-Hz notch filter on tone-burst ABR threshold estimates in infants.

Amanda Velasquez (Au.D. project co-supervisor) – defended project entitled: Real-ear measurements in infants using multiple ASSR stimuli at threshold level.

Danielle Caperton and Lauren Wills (Au.D. project supervisor) – defended project entitled: Behavioral and electrophysiological measures of attention in individuals with low versus high acceptable noise levels.

Carly McWatters (Au.D. project co-supervisor) – defended project entitled: Cortical potentials in children using clinical equipment.

2010 – Ji Young Lee (Ph.D. project supervisor) – defended project entitled: The effects of phonological processing on behavioral and ERP responses.

Matt Wilson (Ph.D. project supervisor) – defended project entitled: The effects of complexity of visual distracter on P300s evoked by auditory stimuli.

Lynzee Alworth (Ph.D. dissertation committee member) – defended dissertation entitled: Effect of occlusion and directionality on horizontal location.

Stephen Crawcour (Ph.D. dissertation committee member) – defended dissertation entitled: Effects of active and passive desensitization on the psychological and emotional reactions to stuttered speech.

Alison Ward (Au.D. project co-supervisor) – defended project entitled: Cortical potentials in children with cochlear implants using clinical equipment.

2011 - Matt Wilson (Ph.D. project supervisor) – defended project entitled: ERPs in athletes with mild traumatic brain injury.

Dania Rishiq – (Ph.D. project supervisor) – defended project entitled: Auditory brainwave study on individuals with multiple sclerosis using the Biological Marker of Auditory Processing (BioMark), auditory middle latency responses (MLR), and auditory steady state responses (ASSR)

Keisha Brooks (Ph.D. dissertation committee member) – defended prospectus for dissertation entitled: Deaf employees in the workplace.

Megan Cuellar (Ph.D. project committee member) – defended project entitled: Mu wave suppression during phonological and tone sequence segmentation tasks.

2012 - Andrew Bowers (Ph.D. dissertation committee member) – defended dissertation entitled: Independent component analysis of event related EEG during speech and non-speech perception: Implications for the role of the sensorimotor Mu rhythm in speech processing.

Leslie Smelcer (Au.D. project co-supervisor) – defended project entitled: Cortical potentials in normal-hearing infants using clinical equipment.

Matt Wilson (Ph.D. dissertation supervisor) – defended dissertation entitled: The long term effects of repetitive, subconcussive impacts on the electrophysiological correlates of attention and information processing speed.

Ji Young Lee (Ph.D. dissertation supervisor) –defended dissertation entitled: N200 and P300 to between category stimuli in semantic context.

Dania Rishiq (Ph.D. dissertation supervisor) –defended dissertation entitled: Effects of aging and spectral shaping on the sub-cortical differentiation of contrastive stop consonants.

2013 – Joseph McBride (Ph.D. dissertation committee member) – defended prospectus for dissertation entitled: Information flow and complexity analysis of scalp EEG activity for detection of cognitive deficits.

Megan Cuellar (Ph.D. dissertation committee member) – defended prospectus for dissertation entitled: Mapping the functional dynamics of sensorimotor integration during swallowing.

Nicole Drakopolis Street (AuD project mentor) – collecting data for project entitled: Sex differences in the effect of visual distracters on auditory P300.

David Jenson (Ph.D. doctoral committee member)

David Thornton (Ph.D. doctoral mentor)

Karen Martin (Ph.D. doctoral committee member)

2014 - Joseph McBride (Ph.D. dissertation committee member) – defended dissertation entitled: Information flow and complexity analysis of scalp EEG activity for detection of cognitive deficits.

Megan Cuellar (Ph.D. dissertation committee member) – defended dissertation entitled: Mapping the functional dynamics of sensorimotor integration during swallowing.

David Jenson (Ph.D. doctoral committee member)

David Thornton (Ph.D. doctoral mentor)

Karen Martin (Ph.D. doctoral committee member)

Steve Doettl (Ph.D. doctoral committee member)

Shivangi Bannerjee (Ph.D. doctoral committee member)

Nicole Drakopolis Street (AuD project mentor) – defended project entitled: Sex differences in the effect of visual distracters on auditory P300.

2015 - David Jenson (Ph.D. doctoral committee member) – defended project entitled Auditory Cortical Deactivation via Efference Copy in Speech: An EEG investigation of the temporal dynamics of the auditory alpha rhythm.

David Thornton (Ph.D. doctoral mentor) – to defend 1st project in August 2015.

Mary Easterday (Ph.D. doctoral committee member) – defended project entitled Mental Tasking and Caloric-Induced Vestibular Nystagmus Utilizing Videonystagmography

Steve Doettl (Ph.D. doctoral committee member) – to defend project in August 2015.

Shivangi Bannerjee (Ph.D. doctoral committee member) - defended prospectus entitled: Perceived personality differences associated with stuttering from the perspectives of young adults who do not stutter.

Rachel Bilgo (AuD project co-mentor) – defended project entitled: Effects of Unilateral Hearing Loss on Speech-evoked Auditory Brainstem Responses and Academic Performance.

Sarah Jordan (Ph.D. doctoral committee member)

Lauren Mitchell (Ph.D. doctoral committee member)

Jessica Defenderfer (Ph.D. doctoral committee member)

Karen Martin (Ph.D. doctoral committee member)

2016 - David Jenson (Ph.D. doctoral co-mentor) – completed comprehensive exams in June 2016. Submitted F31 to NIDCD at NIH. Currently collecting data for 2nd project in my laboratory and preparing for defense.

David Thornton (Ph.D. doctoral mentor) – defended 1st project in 2016. Currently collecting data for 2nd project in my laboratory.

Mary Easterday (Ph.D. doctoral committee member) – defended prospectus for 2nd project in May 2016.

Steve Doettl (Ph.D. doctoral committee member) – defended 2nd research project in May 2016.

Daniela Santos-Oliveira (Ph.D. doctoral committee member) – defended dissertation prospectus in April 2016. Currently collecting data in my laboratory.

Jessica Defenderfer (Ph.D. doctoral committee member)

Karen Martin (Ph.D. doctoral committee member) – took comprehensive exams in April 2016. Currently, following remediation plan devised by the committee.

2017 - David Jenson (Ph.D. doctoral co-mentor) – Defended 2nd research project. Preparing prospectus for his dissertation

David Thornton (Ph.D. doctoral mentor) – defended 2nd project. Submitted F31 to NIDCD at NIH. Successfully completed comprehensive exams in May 2017. Preparing prospectus for his dissertation.

Mary Easterday (Ph.D. doctoral committee member) – defending 2nd project in June 2016.

Steve Doettl (Ph.D. doctoral committee member) – Successfully completed comprehensive exams in April 2017.

Daniela Santos-Oliveira (Ph.D. doctoral committee member) – defended dissertation and earned Ph.D. in May 2017.

Jessica Defenderfer (Ph.D. doctoral committee member) – defended 1st research project. Completing data collection on 2nd research project.

Karen Martin (Ph.D. doctoral committee member) – Currently, following remediation plan devised by the committee.

- Alex Brito (B.A. Honor's Thesis outside committee member) – Defended her thesis in April 2017.
- 2018 - David Jenson (Ph.D. doctoral co-mentor) – Defended dissertation.
- David Thornton (Ph.D. doctoral mentor) – Passed comprehensive examinations. Defended prospectus for his dissertation. Acquiring data. Defending dissertation in August 2018.
- Mary Easterday (Ph.D. doctoral committee member) – Taking comprehensive examinations.
- Steve Doettl (Ph.D. doctoral committee member) – Defended dissertation prospectus.
- Jessica Defenderfer (Ph.D. doctoral committee member) – Defended 2nd research project. Taking comprehensive examinations.
- Karen Martin (Ph.D. doctoral committee member) – Satisfied remediation plan devised by the committee. Passed comprehensive exams. Preparing prospectus for dissertation.
- 2019 – David Thornton (Ph.D. doctoral mentor) – Defended dissertation in January 2019. Graduated in May 2019.
- Mary Easterday (Ph.D. doctoral committee member) - Defended dissertation prospectus and began collecting data.
- Steve Doettl (Ph.D. doctoral committee member) – Collecting dissertation data.
- Jessica Defenderfer (Ph.D. doctoral committee member) – Collecting dissertation data.
- Karen Martin (Ph.D. doctoral committee member) – Defended dissertation in April 2019. Graduated in May 2019.
- 2020 – Mary Easterday (Ph.D. doctoral committee member) - Defended dissertation in October 2020 and earned degree December 2020.
- Steve Doettl (Ph.D. doctoral committee member) – Defended dissertation in March 2020 and earned degree in May 2020.
- Jessica Defenderfer (Ph.D. doctoral committee member) – Collecting dissertation data.
- Alana Stephens and Jack Marshall – Prospectus for AuD research project. Waiting for COVID restrictions to lift in order to collect data.
- 2021 - Jessica Defenderfer (Ph.D. doctoral committee member) – Collecting dissertation data.
- Alana Stephens and Jack Marshall – IRB approved. Collecting data.
- Eddie Brown (Ph.D. doctoral committee member) – In first year coursework and designing first project.
- Dong Uk Lee (Ph.D. doctoral committee member) – Passed comprehensive exams.

RESEARCH SUPPORT APPLICATIONS

Grants Awarded

1. National Institutes of Health R21. "Real-time differences in sensorimotor integration for speech perception between stuttering and non-stuttering populations," T. Saltuklaroglu (P.I.), A.W. **Harkrider** (Co-P.I.). April 1, 2015 (\$411,804).
2. American Academy of Audiology Summer Research Fellowship. "Effects of Phonological Processing on Behavioral and ERP Responses." Ji Young Lee (P.I.), A.W. **Harkrider** (faculty mentor). January 11, 2010 (\$2,500).
3. University of Tennessee Professional Development Award. "Effects of Estrogen and Progesterone on the Female Auditory System." A.W. **Harkrider** (P.I.). May 7, 2009 (\$3,600).
4. University of Tennessee Graduate Research Assistantship (GRA). "Neural Responses to Speech in Noise from Elderly Individuals with Normal and Impaired Hearing." A.W. **Harkrider** (P.I.). March 18, 2008 (\$3,600).
5. University of Tennessee Professional Development Award. "Mirror Neuron Activation During Speech Perception, Production, and Choral Speech." A.W. **Harkrider** (P.I.), T. Saltuklaroglu (Co-I), November 7, 2006 (\$5,000).
6. University of Tennessee Scholarly Activity/Research Incentive Fund (SARIF) Small Grant. "Monetary Support for Subject Recruitment." A.W. **Harkrider** (P.I.). May 23, 2006 (\$500).
7. National Institutes of Health, Ruth L. Kirschstein National Research Service Award, "Physiological Contributions to Noise Acceptance," Pre-doctoral fellowship awarded to Joanna W. Tampas (P.I.), sponsored by A.W. **Harkrider** (faculty mentor). November 2005 (\$184,980).
8. University of Tennessee Exhibit, Performance and Publication Expenses (EPPE) Funding. "Support for Manuscript Publication in *Journal of the Acoustical Society of America*." A.W. **Harkrider** (P.I.). October 12, 2005 (\$1,500).
9. University of Tennessee Scholarly Activity/Research Incentive Fund (SARIF) Equipment and Infrastructure Award. "Proposal for NeuroScan." A.W. **Harkrider** (P.I.). April 21, 2005 (\$57,475).
10. University of Tennessee Professional Development Award, Division of Small Grants, A.W. **Harkrider** (P.I.). Co-Investigators, M. Hedrick, J. Hall, April, 2002 (\$12,000).
11. University of Tennessee Professional Development Award, Division of Small Grants, A.W. **Harkrider** (P.I.). November, 2001 (\$450).
12. University of Tennessee Scholarly Activity/Research Incentive Fund (SARIF), Division of Small Grants, A.W. **Harkrider** (P.I.). April, 2000 (\$600).
13. University of Tennessee Scholarly Activity/Research Incentive Fund (SARIF), 1-year Award, A.W. **Harkrider** (P.I.). 2000-2001 (\$10,000).
14. American Academy of Audiology Student Investigator Research Award, A.W. **Harkrider** (P.I.). 1999 (\$2,500).

Grants In Review

1. National Institutes of Health R21. "Using variability in stuttering frequency for developing neural markers of motor control in adults who stutter." T. Saltuklaroglu (P.I.), A.W. **Harkrider** (Co-P.I.), A. Bowers (Co-P.I.) Submitted October 2021.

Recent Funding Attempts

1. National Science Foundation. "Effects of top-down processing on concurrent vowel identification." M. Hedrick (P.I.), A. **Harkrider** (Co-P.I.). Submitted February 1, 2021.
2. National Institutes of Health R21. "Acoustic and listener attributes affecting concurrent vowel identification." M. Hedrick (P.I.), A. **Harkrider** (I). Submitted October 16, 2020.
3. National Institutes of Health R21. "Identification of EEG spectral biomarker of stuttering in adults." T. Saltuklaroglu (P.I.), A. **Harkrider** (Co-P.I.). Submitted June 25, 2018 (\$455,898). Not funded.
4. National Institutes of Health F31. "Sex differences in sensorimotor processing for speech perception: A concurrent fNIRS/EEG investigation." D. Thornton (P.I.), A. **Harkrider** (Faculty Mentor). Submitted April 10, 2017. Not funded.
5. National Institutes of Health R21. "EEG measures of trait-related sensorimotor deficits associated with stuttering and state-related compensatory changes under fluency enhanced conditions." T. Saltuklaroglu (P.I.), A. **Harkrider** (Co-I). Submitted October 16, 2016 (\$418,000). Not funded.

INVITED, PEER-REVIEWED BOOK CHAPTER

- **Harkrider**, A.W. (In Press) Chapter #. Middle Latency Responses. In Atcherson, S.R. and Stody, T.M. (Eds.), Auditory Electrophysiology. A Clinical Guide. 2nd Edition. New York, NY: Thieme Medical Publishers.
- **Harkrider**, A.W. (2012) Chapter 9. Middle Latency Responses. In Atcherson, S.R. and Stody, T.M. (Eds.), Auditory Electrophysiology. A Clinical Guide. New York, NY: Thieme Medical Publishers, 121 - 135.

PEER-REVIEWED JOURNAL ARTICLES

In Review/Revision

1. Rishiq, D., **Harkrider**, A.W., Hedrick, M., Springer, C. Effects of spectral shaping on speech auditory brainstem responses to stop consonant-vowel syllables. Journal of the American Academy of Audiology.

Published Manuscripts

1. Oliveira, D.S., Saltuklaroglu, T., Thornton, D., Jenson, D., **Harkrider**, A.W., Rafferty, M.B., Casenhiser D. (in press) Mu Rhythm Dynamics Suggest Automatic Activation of Motor and Premotor Brain Regions During Speech Processing. Journal of Neurolinguistics.
2. Plyler, E., **Harkrider**, A.W., Little, J. (2021). Three Cases of Recovery from Sensorineural Hearing Loss in the First Year of Life: Implications for Monitoring and Management. Journal of the American Academy of Audiology, 32, 54-68.

3. Rishiq, D., **Harkrider**, A.W., Hedrick, M., Springer, C. (2021). Click-evoked and Speech-evoked Auditory Brainstem Responses from Individuals with Multiple Sclerosis. *Neuroscience Letters*, 740. doi.org/10.1016/j.neulet.2020.135460.
4. Rishiq, D., **Harkrider**, A.W., Hedrick, M., Springer, C. (2020). Effects of Aging on the Subcortical Encoding of Stop Consonants. *American Journal of Audiology*, 21, 1-13. doi.org/10.1044/2020_AJA-19-00044.
5. Jenson, D., Thornton, D., **Harkrider**, A., Saltuklaroglu, T. (2019). Influences of Cognitive Load on Sensorimotor Contributions to Working Memory: An EEG investigation of mu rhythm activity during speech discrimination. *Neurobiology of Learning and Memory*, 155: 1 - 12. doi: 10.1016/j.nlm.2019.107098.
6. Lee J., Hedrick M., **Harkrider**, A.W. (2019) Event-related potentials and behavioral responses to CV stimuli straddling category boundary. *Communication Sciences & Disorders*, 24:129-140. doi: 10.12963/csd.19593.
7. Bowers, A., Saltuklaroglu, T., Jenson, D., **Harkrider**, A.W., Thornton, D. (2019). Power and phase coherence in sensorimotor mu and temporal lobe alpha components during covert and overt syllable production. *Experimental Brain Research*, 237: 705-721. doi: 10.1007/s00221-018-5447-4.
8. Thornton, D., **Harkrider**, A.W., Jenson, D., Saltuklaroglu, T. (2019). Sex differences in early sensorimotor processing for speech discrimination. *Nature, Scientific Reports*, 9: 392. doi: 10.1038/s41598-018-36775-5.
9. Saltuklaroglu, T., Bowers, A., **Harkrider**, A.W., Casenhiser, D., Reilly, K., Jenson, D., Thornton, D. (2018). EEG mu rhythms: Rich sources of sensorimotor information in speech processing. *Brain and Language*, 187: 41-61. doi: 10.1016/j.bandl.2018.09.005.
10. Jenson, D., Reilly, K., **Harkrider**, A.W., Thornton, D., Saltuklaroglu, T. (2018). Trait Related Sensorimotor Deficits in People Who Stutter: An EEG investigation of μ rhythm dynamics during spontaneous fluency. *NeuroImage: Clinical*. 19, 690-702. doi: 10.1016/j.nicl.2018.05.026. eCollection 2018.
11. Kittilstved, T., Reilly, K., **Harkrider**, A.W., Casenhiser, D., Thornton, D., Jenson, D., Hedinger, T., Bowers, A., Saltuklaroglu, T. (2018). The effects of fluency enhancing conditions on sensorimotor control of speech in typically fluent speakers: An EEG mu rhythm study. *Frontiers in Human Neuroscience*, 12, 126. doi: 10.3389/fnhum.2018.00126.
12. Saltuklaroglu, T., **Harkrider**, A.W., Thornton, D., Jenson, D., Kittilstved, T. (2017). EEG mu (μ) rhythm spectra and oscillatory activity differentiate stuttering from non-stuttering adults. *NeuroImage*, 153, 232-245. doi: 10.1016/j.neuroimage.2017.04.022.
13. Thornton, D., **Harkrider**, A.W., Jenson, D., Saltuklaroglu, T. (2017). Sensorimotor activity measured via oscillations of EEG mu rhythms in speech and non-speech discrimination tasks with and without segmentation demands. *Brain and Language*. doi: 10.1016/j.bandl.2017.03.011.
14. Sims, M., Plyler, E., **Harkrider**, A.W., McLucus, K. (2017). Detection of Deafness in Puppies Using a Hand-Held Otoacoustic Emission Screener. *Journal of the American Animal Hospital Association*, 53, 198-205. doi: 10.5326/JAAHA-MS-6528.
15. Cuellar, M., **Harkrider**, A.W., Jenson, D., Thornton, D., Bowers, A., Saltuklaroglu, T. (2016). Time-frequency analysis of the EEG mu rhythm as a measure of sensorimotor integration in the later

stages of swallowing. *Clinical Neurophysiology*, 127, 2625-2635. doi: 10.1016/j.clinph.2016.04.027.

16. Jenson, D., **Harkrider**, A.W., Thornton, D., Bowers, A., Saltuklaroglu, T. (2015). Auditory cortical deactivation during speech production and following speech perception: an EEG investigation of the temporal dynamics of the auditory alpha rhythm. *Frontiers in Neuroscience*, 9, 534, 1-17. doi: 10.3389/fnhum.2015.00534.
17. Wilson, M., **Harkrider**, A.W., King, K. (2015). Effect of Repetitive, Subconcussive Impacts on Electrophysiological Measures of Attention: A Pilot Study. *The Southern Medical Journal* 108, 559-66. doi: 10.14423/SMJ.0000000000000342.
18. Jenson, D., Bowers, A., **Harkrider**, A.W., Thornton, D., Cuellar, M., Saltuklaroglu, T. (2014). Temporal Dynamics of Sensorimotor Integration in Speech Perception and Production: Independent Component Analysis of EEG Data. *Frontiers in Psychology* 10;5:656. doi: 10.3389/fpsyg.2014.00656. eCollection 2014.
19. Bowers, A., Saltuklaroglu, T., **Harkrider**, A.W., Wilson, M., Toner, M.A. (2014). Dynamic modulation of shared sensory and motor cortical rhythms mediates speech and non-speech discrimination performance. *Frontiers in Psychology* 7;5:366. doi: 10.3389/fpsyg.2014.00366. eCollection 2014.
20. Hedrick, M., Lee, J-Y., **Harkrider**, A.W., von Hapsburg, D. (2014). Effects of Sentence Context on Phonemic Categorization of Natural and Synthetic Consonant-Vowel Tokens. *Perceptual and Motor Skills*, 118(1), 210-224.
21. Wilson, M., **Harkrider**, A.W., King, K. (2014). The effects of visual distracter complexity on auditory evoked P3b in contact sports athletes. *Develop Neuropsychol*, 39(2): 113-130; Doi: 10.1080/87565641.2013.870177.
22. Bowers, A., Saltuklaroglu, T., **Harkrider**, A.W., Cuellar, M. (2013). Suppression of the μ Rhythm During Speech and Non-speech Discrimination Revealed by Independent Component Analysis: Implications for Sensorimotor Integration in Speech Processing. *PLoS ONE*, 8(8): e72024. Doi:10.1371/journal.pone.0072024.
23. Plyler, E., **Harkrider**, A.W. (2013). Serial Auditory Evoked Potentials in the Diagnosis and Monitoring of a Child with Landau-Kleffner Syndrome. *J Am Acad Audiol*, 24(7), 564-571; doi: 10.3766/jaaa.24.7.5.
24. Rishiq, D., **Harkrider**, A.W., Hedrick, M.S. (2012). Acceptable Noise Level and Psychophysical Masking. *Am J Audiol*, 21, 199-205.
25. Cuellar, M., Bowers, A., **Harkrider**, A.W., Wilson, M., Saltuklaroglu, T. (2012). Mu Suppression as an index of sensorimotor contributions to speech processing: evidence from continuous EEG signals. *Int J Psychophysiol*, 85, 242-248.
26. Wilson, M., **Harkrider**, A.W., King, K. (2012). Effects of Complexity of Visual Distracters on Attention and Information Processing Speed Reflected in Auditory P300. *Ear Hear*, 4, 480-488.
27. Lee, J.Y., **Harkrider**, A.W., Hedrick, M.S. (2012). Electrophysiological and behavioral measures of phonological processing by auditory nonsense V-CV-VCV stimuli. *Neuropsychologia*, 50, 666-673.
28. Crawcour, S., Bowers, A., **Harkrider**, A.W. & Saltuklaroglu, T. (2009). Mu wave suppression during the perception of meaningless syllables: EEG evidence of motor recruitment. *Neuropsychologia*, 47, 2558 - 2563.

29. **Harkrider**, A.W., Bowers, C.D. (2009). Evidence for a cortically-mediated release from inhibition in the human cochlea. *J Am Acad Audiol*, 20, 208 - 215.
30. **Harkrider**, A.W., Plyler, P.N. & Hedrick, M.S. (2009). Effects of hearing loss and spectral shaping on identification and neural response patterns of stop-consonant stimuli in young adults. *Ear Hear*, 30, 31 – 42.
31. **Harkrider**, A.W., Tampas, J.W. (2006). Differences in responses from the cochleae and central nervous systems of females with low versus high acceptable noise levels. *J Am Acad Audiol*, 17, 667-676.
32. **Harkrider**, A.W., Plyler, P.N., Hedrick, M.S. (2006). Effects of hearing loss and spectral shaping on identification and neural response patterns to stop consonant stimuli. *J Acoust Soc Am*, 120, 915-925.
33. Tampas, J.W., **Harkrider**, A.W. (2006). Auditory evoked potentials in females with high and low acceptance of background noise when listening to speech. *J Acoust Soc Am*, 119, 1548-1561.
34. Tampas, J.W., **Harkrider**, A.W., Hedrick, M.S. (2005). Neurophysiological indices of speech and nonspeech stimulus processing. *J Sp Lang Hear Res*, 48, 1147-1164.
35. **Harkrider**, A.W., Smith, B.S. (2005). Acceptable noise level, phoneme recognition in noise, and measures of auditory efferent activity. *J Am Acad Audiol*, 16, 530-545.
36. **Harkrider**, A.W., Plyler, P.N., Hedrick, M.S. (2005). Effects of age and spectral shaping on perception and neural representation of stop consonant stimuli. *Clin Neurophys*, 116, 2153-2164.
37. **Harkrider**, A.W., Hedrick, M.S. (2005). Acute effects of nicotine on auditory gating in smokers and non-smokers. *Hear Res*, 202, 114-128.
38. Rogers, D.S., **Harkrider**, A.W., Burchfield, S.B., Nabelek, A. (2003). The influence of listener's gender on the acceptance of background noise. *J Am Acad Audiol*, 14, 372-382.
39. **Harkrider**, A.W., Champlin, C.A., McFadden, D. (2001). Acute Effect of Nicotine on Nonsmokers: I. OAEs and ABRs. *Hear Res*, 160, 73-88.
40. **Harkrider**, A.W. & Champlin, C.A. (2001). Acute Effect of Nicotine on Nonsmokers: II. MLRs and 40-Hz Responses. *Hear Res*, 160, 89-98.
41. **Harkrider**, A.W. & Champlin, C.A. (2001). Acute Effect of Nicotine on Nonsmokers: III. LLRs and EEGs. *Hear Res*, 160, 99-110.
42. **Harkrider**, A.W. & Martin, F. N. (1998). Quantifying Air-Conducted Acoustic Radiation from the Bone-Conduction Vibrator. *J Am Acad Audiol*, 9, 410-416.

OTHER PUBLICATIONS

Invited Publication

- **Harkrider**, A. W. (2001, October). Investigating the role of nicotinic cholinergic receptors in the human auditory system. *ASHA Special Interest Division 6, Hearing and Hearing Disorders: Research and Diagnostics Newsletter*, 5 (1), 3-5.

Conference presentations / published abstracts

1. Lewis, J., Lee, DongUk, **Harkrider**, A.W., Johnstone, P., Beeler, J. Hearing loss and noise notches among student musicians. Proposal submitted for presentation at the Annual Convention of the American Speech-Language-Hearing Association, Washington, D.C., November 2021.
2. Rafferty, M.B., Jenson, D., Bowers, A., **Harkrider**, A.W., Saltuklaroglu, T. Auditory activity and audiomotor coherence in adults who stutter and matched controls discriminating in noise. Proposal submitted for presentation at the Annual Convention of the American Speech-Language-Hearing Association, Washington, D.C., November 2021.
3. Saltuklaroglu, T., Rafferty, M.B., **Harkrider**, A.W., Jenson, D. Stuttering-related differences in cognitive strategies for auditory processing in noise. Presented at the annual Oxford Dysfluency Conference, Online, January 2021.
4. Bowers, A., Jenson, D., Saltuklaroglu, T., **Harkrider**, A.W. How EEG mu rhythm measures can inform on the neurophysiology of stuttering. Proposal accepted at the 2020 Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).
5. Saltuklaroglu, T. **Harkrider**, A.W. What the EEG mu rhythm reveals about the neurophysiology of stuttering. Presented at the World Congress for People Who Stutter, Hvergardí, Iceland. June 2019.
6. Saltuklaroglu, T., **Harkrider**, A. W., Jenson, D., Thornton, D. Stuttering-related differences in auditory-motor coherence in speech and tone discrimination. Presented at the annual Society for the Neurobiology of Language Conference, Quebec City, CA, August 2018.
7. Saltuklaroglu, T., **Harkrider**, A. W., Kittilstved, T., Thornton, D., Jenson, D. Changes in sensorimotor control of speech observed in oscillations of the EEG mu rhythm. Presented at the annual Society for the Neurobiology of Language Conference, Quebec City, CA, August 2018.
8. Jenson, D., Saltuklaroglu, T., Reilly, K. J., **Harkrider**, A. W., Thornton, D. Trait-related internal modeling deficits in people who stutter during spontaneous fluency. Presented at the annual Motor Speech Conference, Savannah, GA, February 2018.
9. Jenson, D., Thornton, D., **Harkrider**, A.W., Saltuklaroglu, T. Dorsal stream connectivity in people who stutter during speech perception. Presented at the annual meeting of the American Speech-Language-Hearing Association, Los Angeles, CA, November 2017.
10. Jenson, D., Thornton, D., **Harkrider**, A.W., Saltuklaroglu, T. Dorsal stream connectivity clarifies role of internal modeling in speech perception. Presented at the annual meeting of the American Speech-Language-Hearing Association, Los Angeles, CA, November 2017.
11. Thornton, D., Jenson, D., **Harkrider**, A.W., Saltuklaroglu, T. Sex-related differences in speech perception: A concurrent EEG/fNIRS investigation of sensorimotor processing. Presented at the annual meeting of the American Speech-Language-Hearing Association, Los Angeles, CA, November 2017.
12. Saltuklaroglu, T., **Harkrider**, A.W., Jenson, D., Thornton, D., Bowers, A. Sensorimotor differences between stuttering and non-stuttering adults before and during fluent speech

production recorded in the EEG mu rhythm. Presented at the 11th Oxford Fluency Conference, Oxford, England, September 2017.

13. **Harkrider**, A.W., Saltuklaroglu, T., Thornton, D., Jenson, D., Bowers, A. Sensorimotor differences between stuttering and non-stuttering adults in speech and tone discrimination tasks observed in the EEG mu rhythm. Presented at the 11th Oxford Fluency Conference, Oxford, England, September 2017.
14. Saltuklaroglu, T., **Harkrider**, A.W., Jenson, D., Thornton, D., Kittilstved, T., Bowers, A. Sensorimotor differences between stuttering and non-stuttering adults before and during fluent speech production recorded in EEG mu rhythms. Presented at the annual meeting of the Society for the Neurobiology of Language, London, England, August, 2016.
15. **Harkrider**, A.W., Saltuklaroglu, T., Thornton, D., Jenson, D., Kittilstved, T., Bowers, A. Sensorimotor differences between stuttering and non-stuttering adults in speech and tone discrimination tasks observed in EEG mu rhythms. Presented at the annual meeting of the Society for the Neurobiology of Language, London, England, August, 2016.
16. Thornton, D., Jenson, D., **Harkrider**, A.W., Kittilstved, T., Saltuklaroglu, T. Sex-related sensorimotor processing differences during speech discrimination tasks revealed in EEG mu rhythms. Presented at the annual meeting of the Society for the Neurobiology of Language, London, England, August, 2016.
17. Plyler, E., **Harkrider**, A.W. Diagnosis and Monitoring of a Child with Landau-Kleffner Syndrome. Presented at the annual meeting of the American Academy of Audiology, Phoenix, AZ, April 2016.
18. **Harkrider**, A.W., Plyler, E. Recovery from Hearing Loss in Infants. Presented at the annual meeting of the American Academy of Audiology, Phoenix, AZ, April 2016.
19. Bowers, A., Saltuklaroglu, T., **Harkrider**, A.W., Jenson, D., Thornton, D. Temporal Dynamics of Delta-Theta Corticomuscular Coherence in Speech Discrimination, Covert Production, & Overt Production. Presented at the annual meeting of the American Speech-Language-Hearing Association, Denver, CO, November 2015.
20. Thornton, D., Jenson, D., **Harkrider**, A.W., Saltuklaroglu, T. Speech & Non-Speech Segmentation: An EEG Investigation into Dorsal Stream Dynamics. Presented at the annual meeting of the American Speech-Language-Hearing Association, Denver, CO, November 2015.
21. Jenson, D., Thornton, D., Saltuklaroglu, T., **Harkrider**, A.W. Sensorimotor Deficits Underlying Stuttering: Real-Time EEG Measures of Dorsal Stream Dynamics in Speech. Presented at the annual meeting of the American Speech-Language-Hearing Association, Denver, CO, November 2015.
22. Banerjee, S., Saltuklaroglu, T., Casenhiser, D., **Harkrider**, A.W., Hedinger, T. Perceived Personality Differences Associated with Stuttering from the Perspective of Adults Who Do Not Stutter. Presented at the annual meeting of the American Speech-Language-Hearing Association, Denver, CO, November 2015.
23. Thornton, D., Jenson, D., Bowers, A., Saltuklaroglu, T., **Harkrider**, A.W. Auditory to Motor Integration in Speech Segmentation. Presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL, November 2014.
24. Cuellar, M., Saltuklaroglu, T., **Harkrider**, A.W., King, K. The Spatio-Temporal Parameters of Sensorimotor Integration During the Perception & Performance of Swallowing. Presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL, November 2014.

25. Jenson, D., Thornton, D., Bowers, A., Saltuklaroglu, T., **Harkrider**, A.W. Functional Connectivity Between Dorsal Stream Speech Network EEG Components. Presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL, November 2014.
26. Banerjee, S., Saltuklaroglu, T., Casenhiser, D., **Harkrider**, A.W. Changes in the Five Personality Traits on NEO-PI-3 When Non-Stutterers Assume the Role of Stutterer. Presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL, November 2014.
27. Thornton, D., Jenson, D., Saltuklaroglu, T., **Harkrider**, A.W. Sensorimotor integration in speech perception and production. Presented at the Biomedical Science and Engineering Center (BSEC) Conference on Collaborative Biomedical Innovations, Oak Ridge, TN, May 9, 2014.
28. Rishiq, D., **Harkrider**, A.W., Hedrick, M.S. Effects of Aging and Spectral-Shaping on Brainstem Differentiation of Consonants. Presented at the annual meeting of the American Auditory Society, Scottsdale, AZ, March 2014.
29. Cuellar, M., Saltuklaroglu, T., **Harkrider**, A.W., Bowers, A. Temporal aspects of sensorimotor integration in speech perception and production: An independent component analysis study. Presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL, November 2013.
30. Saltuklaroglu, T., **Harkrider**, A.W. A comparison of sensorimotor integration processes for speech in stutterers and non-stutterers: Preliminary EEG data. Presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL, November 2013.
31. Cuellar, M., Saltuklaroglu, T., **Harkrider**, A.W. Mapping the Functional Dynamics of Sensorimotor Integration During Swallowing Using Electroencephalography. Presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL, November 2013.
32. Bowers, A., Saltuklaroglu, T., **Harkrider**, A.W. Temporal lobe EEG intertrial phase coherence in speech and non-speech discrimination. Presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL, November 2013.
33. Lee, J.Y., **Harkrider**, A.W. Event-related potentials evoked by behaviorally perceptible speech contrasts straddling the category boundary. Presented at the XIII meeting of the International Evoked Response Audiometry Study Group, New Orleans, LA, June 10, 2013.
34. Schwarz, I., **Harkrider**, A.W. A new model for undergraduate preparation in CSD. Presented at the annual meeting of the Council of Academic Programs for Communication Sciences and Disorders, Phoenix, AZ, April 19, 2013.
35. Bowers, A., Saltuklaroglu, T., **Harkrider**, A.W., Cuellar, M. Sensorimotor integration during speech and non-speech discrimination. Presented at the annual meeting of the American Speech-Language-Hearing Association, Atlanta, GA, November 15, 2012.
36. Bowers, A., Saltuklaroglu, T., **Harkrider**, A., Cuellar, M. Independent component analysis of event-related EEG: Implications for the sensorimotor mu rhythm in speech processing. Presented at the 2012 Society for Neuroscience Annual Meeting, New Orleans, LA, October 15, 2012.
37. Bowers, A., Saltuklaroglu, T., **Harkrider**, A., Cuellar, M., Wilson, M. Sensorimotor activity in speech perception measured via changes in Mu rhythm activity. Presented at the 2012 Joint Meeting of the EEG and Clinical Neuroscience Society, Bristol, TN, September 13, 2012.

38. Cuellar, M., Bowers, A., **Harkrider**, A., Wilson, M., Saltuklaroglu, T. Mu wave suppression during speech and non-speech acoustic processing tasks. Presented at the 2012 Joint Meeting of the EEG and Clinical Neuroscience Society, Bristol, TN, September 13, 2012.
39. Wilson, M., **Harkrider**, A.W., King, K. Auditory-evoked P300s from athletes with and without history of concussion. Presented at the annual meeting of the American Auditory Society, Scottsdale, AZ, March 2012.
40. Rishiq, D., **Harkrider**, A.W., Hedrick, M. Speech-evoked auditory brain stem responses from individuals with multiple sclerosis (MS). Presented at the annual meeting of the American Auditory Society, Scottsdale, AZ, March 2012.
41. Cuellar, M., Bowers, A., **Harkrider**, A.W., Saltuklaroglu, T. Mu wave Suppression During Phonological And Tone Sequence Segmentation Tasks. Presented at the annual meeting of the American Speech-Language-Hearing Association, San Diego, CA, November 17, 2012.
42. Ward, A., Johnstone, P.J., **Harkrider**, A.W., Little, J. Use of Commercially Available Clinical Equipment to Obtain Cortical Potentials in Pediatric Cochlear Implant Users. Presented at the annual meeting of the American Academy of Audiology, Chicago, IL. April 7, 2011.
43. Michael, P.A., **Harkrider**, A.W. Recalibrating seasoned clinical faculty for tomorrow. Presented at the annual meeting of the Council for Academic Programs in Communication Sciences and Disorders, St. Petersburg Beach, FL, March 24-26, 2011.
44. Wilson, M., **Harkrider**, A.W., King, K. Effects of complexity of visual distracter on auditory P300. Presented at the annual meeting of the American Auditory Society, Scottsdale, AZ, March, 2011.
45. Bowers, A., Crawcour, S., **Harkrider**, A.W., & Saltuklaroglu, T. Mu suppression to speech under increased processing demands. Presented at the annual meeting of the American Speech-Language-Hearing Association, Philadelphia, PA, November 19, 2010.
46. Lee, J.Y., **Harkrider**, A.W., & Hedrick, M.S. Phonological processing measured by electrophysiological and behavioral responses. Presented at the annual meeting of the American Auditory Society, Scottsdale, AZ, March, 2010.
47. **Harkrider**, A.W., Johnstone, P.J., & McWatters, C. Slow cortical potentials in children using clinical equipment. Presented at the annual meeting of the American Auditory Society, Scottsdale, AZ, March, 2010.
48. Bowers, A., Crawcour, S., **Harkrider**, A.W., & Saltuklaroglu, T. Mu suppression to speech stimuli in English and ESL Speakers. Presented at the annual meeting of the American Speech-Language-Hearing Association, New Orleans, LA, November, 2009.
49. Murphy, N., **Harkrider**, A.W., Plyler, E., & Johnstone, P. Speech-evoked auditory brainstem responses and reading scores in children with unilateral hearing loss. Presented at the annual meeting of the American Academy of Audiology, Dallas, TX, April, 2009.
50. Crawcour, S., Bowers, A., Saltuklaroglu, T., **Harkrider**, A.W. Mu-rhythm suppression while viewing audiovisual speech & nonspeech stimuli. Presented at the annual meeting of the American Speech-Language-Hearing Association, Chicago, IL, November 22, 2008.
51. **Harkrider**, A.W., Bowers, C.D. Cortically mediated release from inhibition in the human cochlea. Presented at the annual meeting of the American Academy of Audiology, Charlotte, NC, April 4, 2008.

52. Sievers, R., Johnstone, P.J., **Harkrider**, A.W., Hedrick, M.S. Cortical potentials in cochlear implant users using clinical equipment. Presented at the annual meeting of the American Academy of Audiology, Charlotte, NC, April 3, 2008.
53. von Hapsburg, D., **Harkrider**, A.W. Auditory evoked potentials and behavioral measures of L1 processing in noise. Presented at the American Auditory Society, Scottsdale, AZ, March 2008.
54. von Hapsburg, D., **Harkrider**, A.W. Brain potentials and behavioral measures of L1 processing. Presented at the American Auditory Society, Scottsdale, AZ, March 2007.
55. Tampas, J.W., **Harkrider**, A.W. Auditory evoked potentials and background noise acceptance. Presentation as a Student Research Forum Award Winner at the American Academy of Audiology, Minneapolis, MN, April, 2006.
56. Franklin, C., **Harkrider**, A.W., Hedrick, M.S. Changes in the perception of stop consonants through enhanced cue training. Presentation at the American Speech Language Hearing Association; San Diego, CA, November, 2005.
57. Munoz, M., Horton-Ikard, R., **Harkrider**, A.W., Von Hapsburg, D. The who, what, when, where, and why of getting a Ph.D. Presentation at the 13th Joint Annual Convention of the Tennessee Association for Audiology and Speech Language Pathology, Knoxville, TN, September 21-23, 2005.
58. **Harkrider**, A.W., Plyler, P.N., Hedrick, M.S. Effects of hearing loss on behavioral and neurophysiologic measures of categorical perception. Presentation at the 149th Meeting of the Acoustical Society of America; Vancouver, B.C., Canada, May 16-20, 2005.
59. **Harkrider**, A.W., Plyler, P.N., Hedrick, M.S. Effects of aging on behavioral and neurophysiologic measures of categorical perception. Presentation at the Association for Research in Otolaryngology 2005 MidWinter Meeting; New Orleans, LA, February 19-24, 2005.
60. **Harkrider**, A.W. Integrating research into the Au.D. at The University of Tennessee. Presentation at the Audiology Education Summit; Fort Lauderdale, FL, January 14-16, 2005.
61. **Harkrider**, A.W., & Hedrick, M.S. Acute effects of nicotine on processing of complex stimuli in smokers and nonsmokers. Presentation at the 147th Meeting of the Acoustical Society of America; New York, New York, May 24-28, 2004.
62. Tampas, J.W., **Harkrider**, A.W., & Nabelek., A.K. Physiologic correlates to background noise acceptance. Presentation at the 147th Meeting of the Acoustical Society of America; New York, New York, May 24-28, 2004.
63. Smith, B., **Harkrider**, A.W., Burchfield, S.B., & Nabelek, A.K. Relation between measures of speech-in-noise performance and measures of efferent activity. Presentation at the 144th Meeting of the Acoustical Society of America; Nashville, Tennessee, April 28 – May 2, 2003.
64. Webster, J.D., **Harkrider**, A.W., & Hedrick, M.S. Comparison of behavioral discrimination, MMN, and P300 to speech and non-speech stimuli. Presentation at the 144th Meeting of the Acoustical Society of America; Nashville, Tennessee, April 28 – May 2, 2003.
65. Franklin, C. & **Harkrider**, A.W. Perceptual Cue-weighting of Voiceless Stop Consonants as Represented by Mismatch Negativity and P300. Presentation at the 143rd Meeting of the Acoustical Society of America; Pittsburgh, Pennsylvania, June 3 – 7, 2002.

66. **Harkrider**, A.W. & Hedrick, M.S. Nicotine and the Auditory Systems of Non-Smokers. Presentation at the Association for Research in Otolaryngology 2002 MidWinter Meeting; St. Petersburg Beach, Florida, January 27-31, 2002.
67. **Harkrider**, A.W. & Champlin, C.A. Acute Effects of Nicotine on Physiological Responses from the Auditory Systems of Non-Smokers. Presentation at the 139th Meeting of the Acoustical Society of America; Atlanta, Georgia, May 30-June 3, 2000.
68. **Harkrider**, A.W. & McFadden, D. Acute Effects of Nicotine on Otoacoustic Emissions in Non-Smokers. Presentation at the Association for Research in Otolaryngology 2000 MidWinter Meeting; St. Petersburg Beach, Florida, February 20-24, 2000.
69. **Whicker**, A. & McFadden, D. Relationship Between Otoacoustic Emissions and Outer and Middle Ear Measures. Presentation at the American Auditory Society Convention; Los Angeles, CA, April 1, 1998.
70. **Whicker**, A. & Martin, F. N. Quantifying the Amount of Acoustic Radiation from the Bone-Conduction Vibrator. Presentation at the American Auditory Society Convention; Fort Lauderdale, FL, April 16, 1997.
71. Thelin, J. W., **Whicker**, A. & Preissler, K. Distortion Product Otoacoustic Emissions: Response Emergence and Growth; Measures of Tuning. Instructional Course at American Academy of Audiology Convention; Salt Lake City, UT, April 21, 1996.
72. **Whicker**, A. Effects of primary-tone separation and frequency on distortion product otoacoustic emissions. Poster presentation at the American Academy of Audiology Convention; Salt Lake City, UT, April 20, 1996.