

KEVIN PITT, PhD., CCC-SLP
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Education

- July 2019 Ph.D., Speech-Language-Hearing, University of Kansas, Lawrence, KS
Advisor: Jonathan Brumberg, Ph.D.
Dissertation research: *Evaluating Person-Centered Factors Associated with Brain-Computer Interface Access to a Commercial Augmentative and Alternative Communication Device*
- 2013 M.S., Communication Sciences and Disorders, Speech-Language Pathology
Missouri State University, Springfield, MO
Advisor: Alana Mantie-Kozlowski, Ph.D.
Project: *Incorporating electropalatography (EPG) feedback into a motor learning paradigm to modify lingual-palatal contact patterns.*
- 2009 B.S., Radiologic Science, University of Missouri-Columbia, Columbia, MO
- 2006 AAS., Radiologic Technology, St Louis Community College Forest Park,
St Louis, MO

Employment and Clinical Experience

- Fall 2019
- Present Assistant Professor in Communication Sciences and Disorders
Department of Special Education and Communication Disorders
University of Nebraska-Lincoln
Director: *Augmentative and Alternative Communication Translation Laboratory*
- 8/2013-
6/2014 Speech-Language Pathologist: CF-SLP
Independent contractor for Innovative Therapy Solutions, and Reagan Rehab, MO
- Provided care for individuals residing in skilled nursing facilities with cognitive-linguistic impairments and dysphagia.
- 2/2013-
5/2013 Speech-Language Pathology Graduate Student Internship
MD Anderson Cancer Center: Departments of neurological rehabilitation, and head and neck surgery. Houston, TX
- Helped assess and diagnose clients with motor speech disorders and aphasia.
 - Assisted with providing patient counseling regarding the effects of head and neck radiation treatments.
- 9/2009-
8/2010 Magnetic Resonance Imaging Technologist: RT(R)(MR)
St. Louis University Hospital, St. Louis, MO
- Effectively communicate exam requirements to patients in a trauma one hospital.

10/2006-
7/2007

Radiologic Technologist: RT(R)
St. Louis University Hospital, St. Louis, MO

- Performed radiographic procedures in operating room, emergency room, and intensive care unit.

Peer Reviewed Publications (*indicates student co-author)

1. **Pitt, K.**, *Cole, Z., & *Zosky, J (2022). Applying Functional Animation to Pictorial Symbols for Supporting P300–Brain–Computer Interface Access to Augmentative and Alternative Communication Devices by Children. *International Journal of Human–Computer Interaction*, 1-13.
2. **Pitt, K.**, *Amirsalar, A. *Zosky, J., & Wang, Y. (2022). Toward P300 Brain-Computer Interface Access to Contextual Scene Displays for AAC: An Initial Exploration of Context and Asymmetry Processing in Healthy Adults. *Neuropsychologia*, 108289.
3. **Pitt, K.**, Mckelvey, M., & Weissling, K. (2022). The Perspectives of Augmentative and Alternative Communication Experts on the Clinical Integration of Non-invasive Brain-Computer Interfaces. *Brain-Computer Interfaces*, 1-18.
4. Molina, A. H., Harvey, J., **Pitt, K. M.**, Lee, J. H., & Barlow, S. M. (2022). Effects of real-time iEMG biofeedback on facial muscle activation patterns in a child with congenital unilateral facial palsy. *Biomedical Journal of Scientific & Technical Research*, 38074-38088.
5. **Pitt, K.**, & Dietz, A. (2021). Applying Implementation Science Frameworks to BCI-AAC Research. *American Journal of Speech-Language Pathology*. 1-10.
6. **Pitt, K.**, & McCarthy, J. (2021). Strategies for Highlighting Items Within Visual Scene Displays to Support Augmentative and Alternative Communication Access for Those with Physical Impairments. *Disability and Rehabilitation: Assistive Technology*. 1-11.
7. **Pitt, K.**, & McCarthy, J. (2021). What’s in a Photograph? The Perspectives of Composition Experts on Factors Impacting Visual Scene Display Complexity for Augmentative and Alternative Communication, and Strategies for Improving Visual Communication. *American Journal of Speech-Language Pathology*, 30(5), 2080-2097.
8. **Pitt, K.**, Brumberg, J (2021). Evaluating the Perspectives of Those with Severe Physical Impairments Across Sessions While Learning BCI Control of a Commercial Augmentative and Alternative Communication Paradigm. *Assistive Technology*, 1-9.
9. **Pitt, K.**, Brumberg, J (2021). Evaluating Person-Centered Factors Associated with Brain–Computer Interface Access to a Commercial Augmentative and Alternative Communication Paradigm. *Assistive Technology*, 1-10.
10. **Pitt, K.**, Brumberg, J., Burnison, J., Mehta, J., & Juhi, K (2019). Behind the scenes of non-invasive brain-computer interfaces: A review of electroencephalography signals, how they are recorded, and why they matter. *ASHA Special Interests Groups*, 1-15.

11. **Pitt, K.**, Brumberg, J. & Pitt, A. (2019). Considering Augmentative and Alternative Communication Research for Brain-Computer Interface Practice. *Assistive Technology Outcomes and Benefits*, 13., 1-20.
12. Brumberg, J., & **Pitt, K.**, (2019). Motor induced suppression of the N100 ERP during motor-imagery control of a speech synthesizer brain-computer interface. *Journal of Speech, Language and Hearing Research*, 62, 2133-2140.
13. **Pitt, K.**, & Brumberg, J. (2018). A Screening Protocol Incorporating Brain-Computer Interface Feature Matching Considerations for Augmentative and Alternative Communication. *Assistive Technology*. 1–15. doi: <https://doi.org/10.1080/10400435.2018.1512175>
14. **Pitt, K.**, & Brumberg, J. S. (2018). Guidelines for Feature Matching Assessment of Brain-Computer Interfaces for Augmentative and Alternative Communication. *American Journal of Speech-Language Pathology*, 27, 950-964. doi:https://doi.org/10.1044/2018_AJSLP-17-0135
15. Brumberg, J., **Pitt, K.**, Mantie-Kozlowski, A., & Burnison, J. (2018). Brain-Computer Interfaces for Augmentative and Alternative Communication: A Tutorial. *American Journal of Speech-Language Pathology*, 27, 1-12. doi: https://doi.org/10.1044/2017_AJSLP-16-0244
16. Brumberg, J., **Pitt, K.**, & Burnison, J. (2018). A Non-Invasive Brain-Computer Interface for Real-Time Speech Synthesis: The Importance of Multimodal Feedback. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 26(4), 874-881. doi: 10.1109/TNSRE.2018.2808425
17. Brumberg, J., Nguyen, A., **Pitt, K.**, & Lorenz, S. (2018). Examining Sensory Ability, Feature Matching, and Assessment-Based Adaption for a Brain-Computer Interface using the Steady State Visual Evoked Potential. *Disability and Rehabilitation: Assistive Technology*, 14(3), 241-249. doi: 10.1080/17483107.2018.1428369
18. Mantie- Kozlowski, A., & **Pitt, K.** (2014). Treating Myofunctional Disorders: A Multiple-Baseline Study of a New Treatment Using Electropalatography. *American Journal of Speech-Language Pathology*, 23(4), 520-529. doi: 10.1044/2014_AJSLP-14-0001
19. Mantie-Kozlowski, A., & **Pitt, K.** (2013). Electropalatography as an adjunct to nonspeech orofacial myofunctional disorder assessments: a feasibility study. *The International Journal of Orofacial Myology: Official Publication of the International Association of Orofacial Myology*, 39, 31-44

Peer Reviewed Papers in Conference Proceedings

1. Brumberg, J. S., Burnison, J. D., & **Pitt, K. M.** (2016). Using motor imagery to control brain-computer interfaces for communication. In D. D. Schmorow & C. M. Fidopiastis (Eds.), *Foundations of augmented cognition: Neuroergonomics and operational neuroscience* (pp. 14–25). Cham, Switzerland: Springer. doi: https://doi.org/10.1007/978-3-319-39955-3_2

International Research Presentations

1. Vansteensel, M., Brumberg, J., Desain, P., Fried-Oken, M., Geronimo, A., Hill, K., Huggins, J., Kosmyna, N., **Pitt, K.**, Vaughan, T. (2021). *Toward an International Consensus on User*

Characterization and BCI Outcomes in Settings of Daily Living. Oral presentation given at the 2020 BCI Society Meeting, Brussels, Belgium. Conference postponed to 2021 due to COVID-19.

2. Brumberg, J., & **Pitt, K** (2021). *Towards a framework for BCI assessment, and multisession BCI performance using a switch-scanning augmentative and alternative communication device by individuals with ALS*. Poster presented at the 2020 BCI Society Meeting, Brussels, Belgium. Conference postponed to 2021 due to COVID-19.

3. **Pitt, K.** (2020). *A Review of Factors and Display Characteristics Influencing P300 Brain-Computer Interface Performance for AAC*. Accepted for presentation at the 2020 International Society for Augmentative and Alternative Communication (ISAAC) Conference, Cancun, Mexico. Due to Covid-19 related conference cancellation, this peer reviewed abstract was disseminated at <https://digitalcommons.unl.edu/specedfacpub/220/>

4. **Pitt, K.**, McCarthy, J., Pitt, A. (2020). *Supporting the Visual-Cognitive Sciences by Exploring the Application of Photographic Composition to Visual Scene Displays*. Accepted for presentation at the 2020 International Society for Augmentative and Alternative Communication (ISAAC) Conference, Cancun, Mexico. Due to Covid-19 related conference cancellation, this peer reviewed abstract was disseminated at <https://digitalcommons.unl.edu/specedfacpub/219/>

5. **Pitt, K.**, Burnison, J., Brumberg, J. (2016). *Brain Computer Interfaces as a New AAC Access Modality for Individuals with Advanced Paralysis*. Poster presented at the 2016 International Brain Computer Interface Meeting, Asilomar, CA.

6. Brumberg, J., Burnison, J., **Pitt, K.** (2016). *Development of a Real Time Speech Synthesizer Based Brain Computer Interface*. Poster presented at the 2016 International Brain Computer Interface Meeting, Asilomar, CA.

National Research Presentations (*indicates student co-author)

1. **Pitt, K.**, *Cole, Z., *Spoor, A., & *Zosky, J (2022). *Using Functional Pictorial Symbol Animation to Provide Children with Brain-Computer Interface Access to AAC*. Poster presentation given at the 2022 American Speech-Language-Hearing Association convention, Louisiana, NO.

2. *Gaffney, H., & **Pitt, K** (2022). *Brains in Motion: A Review of Motion Applications for Supporting Brain-Computer Interface Access to AAC*. Poster presentation given at the 2022 American Speech-Language-Hearing Association convention, Louisiana, NO.

3. **Pitt, K.**, *Mansouri, A., *Zosky, J., *Smith, H., Wang, Y., & *Manly., M (2021). *Toward P300-Based Brain Computer Interface Access to Visual Scene Displays*. Oral Presentation given at the 2021 American Speech-Language-Hearing Association convention, Washington, DC.

4. **Pitt, K.**, *Mansouri, A., *Smith, H., Burnison, J., *Lucas, M., Lambert, M., & *Proud, P (2021). *Assessment Considerations and Perspectives Regarding P300-based Brain-Computer Interface Access to AAC*. Poster presented at the 2021 American Speech-Language-Hearing Association convention, Washington, DC.

5. *Plock, S., **Pitt, K.**, Sauerwein, A., & Weissling, K (2021). *Incorporating Brain-Computer Interfaces, Interprofessional Education and Preferred Teaching strategies in Interprofessional AAC Coursework*.

Poster presented at the 2021 American Speech-Language-Hearing Association convention, Washington, DC.

6. Sauerwein, A., *Buckley, A., **Pitt, K.**, & Weissling, K (2021). *Preservice SLPs' and Special Education Teachers' Reflections on AAC Personnel Roles and Preparedness for Practice*. Poster presented at the 2021 American Speech-Language-Hearing Association convention, Washington, DC.

7. **Pitt, K.**, *Salley, M., *Sindt, K. & McCarthy, J (2020). *Photos for Visual Scene Displays: Input from Interviews with Visual Media Experts*. Poster presented at the 2020 American Speech-Language-Hearing Association convention, San Diego, CA. Due to Covid-19 related conference cancellation, this peer reviewed abstract was disseminated at <https://digitalcommons.unl.edu/specedfacpub/216/>

8. **Pitt, K.**, McKelvey, M., Weissling, K, & *Klein, B. (2020). *The Perceptions of AAC Professionals on Supporting the Clinical Translation of Brain-Computer Interface Technology*. Poster accepted at the 2020 American Speech-Language-Hearing Association convention, San Diego, CA. Due to Covid-19 related conference cancellation, this peer reviewed abstract was disseminated at <https://digitalcommons.unl.edu/specedfacpub/215/>

9. Brumberg, J. & **Pitt, K.** (2019). *Commercial Augmentative and Alternative Communication Device Control Via Brain-Computer Interface*. Poster presented at the 2019 Assistive Technology Industry Association Convention, Orlando, FL.

10. **Pitt, K.**, & Brumberg, J. (2018). *Brain-computer interfaces for AAC: Addressing training needs for moving from bench to bedside*. Poster presented at the 2018 American Speech-Language-Hearing Association Convention, Boston, MA.

11. **Pitt, K.**, Brumberg, J., Fager, S., & Heidrick, L. (2018). *AAC technology for individuals with severe paralysis; Current practice and future trends*. Oral presentation at the 2018 American Speech-Language-Hearing Association Convention, Boston, MA.

12. Brumberg, J., & **Pitt, K.** (2018). *Motor induced suppression of the N100 ERP during motor-imagery while controlling a speech synthesizer brain-computer interface*. Poster presented at the 2018 Motor Speech Conference, Savannah, GA.

13. **Pitt, K.**, & Brumberg, J. (2017). *A Multidisciplinary Feature Matching Based Assessment Protocol for Evaluation across Varied AAC Brain-computer Interfaces*. Poster presented at the 2017 American Speech-Language-Hearing Association Convention, Los Angeles, LA.

14. **Pitt, K.**, Zarfia, K., Brumberg, J., & Brady, N. (2017). *Clinically Translating AAC Brain-Computer Interface Training Protocols by Utilizing Single-Subject Design, and Offline Motor-Imagery Techniques*. Poster presented at the 2017 American Speech-Language-Hearing Association Convention, Los Angeles, LA.

15. **Pitt, K.**, & Brumberg, J. (2016). *Development of a Motor Imagery Based AAC Brain Computer Interface Screening Protocol for Individuals with Advanced ALS*. Oral presentation at the 2016 American Speech-Language-Hearing Association Convention, Philadelphia, PA.

16. **Pitt, K.**, Brumberg J., Searl J., Kuruvilla-Dugdale M., & Burnison J. (2016). *Inter-institutional, cutting edge ALS research across the disease course, from motor speech to AAC BCI*. Oral

presentation at the 2016 American Speech-Language-Hearing Association Convention, Philadelphia, PA.

17. **Pitt, K.**, Brumberg, J., & Masterson., C. (2016). *Development of a clinical decision tree to assess user candidacy for AAC Brain Computer Interfaces*. Poster presented at the 2016 American Speech-Language-Hearing Association Convention, Philadelphia, PA.

18. Brumberg, J., **Pitt, K.**, Burnison, J. (2016). *Evaluating control of commercial AAC devices via brain-computer interface by individuals with neuromotor deficit*. Oral presentation at the 2016 American Speech-Language-Hearing Association Convention, Philadelphia, PA.

19. Masterson, C., **Pitt, K.**, & Brumberg, J. (2016). *Motor-Imagery by individuals with neuromotor impairment for application to AAC brain computer interface intervention*. Poster presented at the 2016 American Speech-Language-Hearing Association Convention, Philadelphia, PA.

20. Brumberg, J., Thomson, **Pitt, K.**, Patel, R. (2016). *Speech and non-speech motor control of prosody by individuals with amyotrophic lateral sclerosis*. Poster presented at the 2016 American Speech-Language-Hearing Association Convention, Philadelphia, PA.

21. **Pitt, K.**, Brumberg, J., Burnison, J., & Duff, J. (2015). *Comparison of CNV potentials during overt & covert hand movements for use in SMR brain computer interfaces for communication*. Poster presented at the 2015 American Speech-Language-Hearing Association Convention, Denver, CO.

22. DeMoss, K., **Pitt, K.**, Mantie-Kozlowski, A. (2015). *SLPs' Perspectives of Working Relationships with Radiologists Who Perform VFSS*. Poster presented at the 2015 American Speech-Language-Hearing Association Convention, Denver, CO.

23. **Pitt, K.** & Mantie- Kozlowski, A. (2014). *Investigating EPG for Treatment of Atypical Lingual-Palatal Timing and Contact Patterns*. Poster presented at the 2014 American Speech-Language-Hearing Association Convention, Orlando, FL.

24. Mantie- Kozlowski, A. & **Pitt, K.** (2014). *Modifying Resting Tongue Posture Using EPG & Principles of Motor Learning: An ABAB Case Study*. Poster presented at the 2014 American Speech-Language-Hearing Association Convention, Orlando, FL.

25. Mantie-Kozlowski, A. & **Pitt, K.** (2013). *Jaw Restricted Tongue Strength Measures in Participants Ages 8, 15, and 21 years*. Poster presented at the 2013 2014 American Speech-Language-Hearing Association convention, Chicago, IL.

26. Bakker, K. **Pitt, K.** & Shirly, D. (2013). *Estimating Impact between the Vocal Folds from an Acoustic Signal*. Poster presented at the 2014 American Speech-Language-Hearing Association convention, Chicago, IL.

27. **Pitt, K.** & Mantie- Kozlowski, A. (2013). *Describing Lingual-Palatal Contact Patterns During Swallowing Using EPG*. Poster presented at the ASHA convention, Chicago, IL.

Invited Presentations

1. **Pitt, K.** (2020). *Barriers and solutions for translating brain-computer interfaces for AAC from research into practice*. Invited Oral presentation accepted at the 2020 American Speech-Language-Hearing Association convention, San Diego, CA. Conference cancelled due to COVID-19.
2. **Pitt, K.** (2020). *Non-invasive brain-computer interfaces for augmentative and alternative communication*. Oral presentation to be given at the Computer Science and Engineering Department Seminar, the University of Nebraska-Lincoln, February 18th, 2020.
3. **Pitt, K.** (2019). *A new technology for AAC: An overview of brain-computer interfaces*. Oral presentation given at the 2019 Nebraska Speech-Language Hearing Association Convention, Omaha, NE. October 4th, 2019.
4. **Pitt, K.** (2019). *An Introduction to Non-Invasive Brain-Computer Interface Techniques for AAC*. Webinar presentation for the United States Society for AAC (USSAAC). March 27th, 2019.
5. *Assistive Technology Outcomes and Benefits-Live! The Role of Research in Influencing Assistive Technology Products*. Panel Presentation at the Assistive Technology Industry Association Convention, Orlando, FL. February 1st, 2019.

Local and State Research Presentations (* indicates student co-author)

1. *Zachary, C., & **Pitt, K** (2022). *Neural Responses to Functional Animation of Pictorial Symbols to provide P300-Brain-Computer Interface Access to Children*. Research Days, University of Nebraska-Lincoln, Lincoln, NE.
2. **Pitt, K.**, *Salley, M., McCarthy, J., & *Sindt, K. (2020; September). *Considering the Perspectives of Visual Media Experts on Visual Scene Display Composition for AAC*. Poster presented at the Nebraska Speech-Language Hearing Association Conference, Lincoln, NE.
3. **Pitt, K.** (2020). Computer Science and Engineering Seminar Series. *Brain-Computer Interfaces for Communication*. Oral presentation given at The University of Nebraska-Lincoln, Lincoln, NE.
4. Johnston, R., **Pitt, K.**, Walker, C., & Brumberg, J. (2017). *Current and future AAC considerations for individuals with severe impairments*. Oral presentation at the 2017 Kansas Speech-Hearing Association Convention, Kansas City, KS.
5. **Pitt, K.**, Mitchell, E & Kleinsasser, S. (2014). Individual contribution: *Considering private practice, or a PhD?* Oral presentation entitled: *The Graduation Party is Over. What Now?* Presented at the Missouri Speech-Hearing Association Convention, Osage Beach, MO.
6. **Pitt, K.** (2013). *The Thalamus: Effects on Speech, Language, and Cognition*. Oral presentation given to the staff at the University of Texas MD Anderson Cancer Center, Houston, TX.

Honors and Awards

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| 2021 | Accepted for participation in ASHA Lessons for Success Mentorship Program |
| 2020-2021 | Accepted for participation in ASHA Pathways Research Mentorship Program |

2020-2021 Accepted for participation in the Scholarly Enhancement Program, College of Education and Human Sciences, University of Nebraska-Lincoln

2020-2021 Accepted for participation in NSF Career Club, College of Education and Human Sciences, University of Nebraska-Lincoln

2018 Special Interest Group 19 (Speech Science) recognition for innovation and excellence for poster presentation entitled "*Brain-computer interfaces for AAC: Addressing training needs for moving from bench to bedside.*"

2018 Graduate Student and Post-Doctoral Travel Fund
\$1000 award, College of Research Excellence, University of Kansas

2018 Summer Research Scholarship
\$5000 award, University of Kansas

2017 Friends of the Life Span Institute Graduate Research Assistant Award
\$2500 award, University of Kansas

2017 Graduate Scholarly Presentation Travel Fund
\$500 award, University of Kansas

2016 ASHA Student Research Travel Award
\$500 award: "*Inter-Institutional, Cutting Edge ALS Research across the Disease Course, From Motor Speech to AAC BCI*", was the highest-rated student lead presentation in its convention topic area.

2016 ASHA Meritorious Research Poster Award
Speech & Nonspeech Motor Control of Prosody by Individuals with Congenital & Acquired Dysarthria

2016 Margaret C. Byrne Sarricks PhD Graduate Research Award
\$100 award, University of Kansas Department of Speech-Language Hearing

2013 Laura Beth Windham Award for Clinical Performance in Speech-Language Pathology
Missouri State University

2013 ASHA Foundation Graduate Student Scholarship
\$5,000 award

2012 Missouri Speech-Language-Hearing Association: Outstanding Student Nominee
Missouri State University

2006 Outstanding Clinical Achievement Award for Radiology
St. Louis Community College Forest Park Department of Radiologic Technology

Research Grants In Preparation

R21 Early Career Award, NIH NIDCD (P1-21-107) Pitt (PI)
Foundations of Patient-Oriented AAC Access for Children: Evaluating Picture-Based P300-Brain-Computer Interface Control and Design Preferences.
Planned submission: February, 2023.

Research Grants Completed

Layman Award, Office of Research & Economic Development Research Council Pitt (PI). 8/20–12/22
Toward P300-based brain-computer interface access for those with severe physical impairments. (Award total: \$9,957.80).

The Center for Transformative Teaching incubation Award Pitt (PI) 07/20–05/22
Evaluating Special Education Teachers and Speech-Language Pathologists Preservice Education and Attitudes Toward Augmentative and Alternative Communication in Nebraska. (Award total: \$990)

Richard W Woodcock Dissertation Research Award Pitt (PI) 12/18-07/19
Evaluating Person-centered Factors Associated with Brain-computer Interface Access to a Commercial Augmentative and Alternative Communication Device. (Award total: \$5000).

Research Grants Under Review

NSF Faculty Early Career Development Program Pitt (PI) 7/2022
CAREER: Applying Human-Technology Interfaces to Support Communication for Children. (Award total: \$582,343).

Research Grants Current

Layman Award, Office of Research & Economic Development Research Council Pitt (PI). 8/20–12/22
Toward P300-based brain-computer interface access for those with severe physical impairments. (Award total: \$9,957.80).

Research Grants not funded

R21 Early Career Award, NIH NIDCD (P1-21-107) Pitt (PI) 02/2022
Assessing the Learning Trajectories and Profiles of those with Neuromotor Impairments During Use of a P300-based Brain-Computer Interface (Award total: \$574,401).

NSF Faculty Early Career Development Program Pitt (PI) 7/2021
CAREER: Applying Human-Technology Interfaces to Support Communication for Children. (Award total: \$559,992).

ASHFoundation Pitt (PI) 12/2020
Putting the P300 Event-related Potential into Context: Evaluating P300-based BCI Signals in an AAC-style Contextual Scene Paradigm. (Award total: \$10,000).

College of Education and Human Sciences Technology Grant Weissling (PI) & Pitt (co-i)

NVIVO Access for Supporting Qualitative Research. (Award total: \$7,370).

NIH Director's Early Independence Awards (RFA-RM-19-008) Pitt (PI) 08/2020
Evaluating the Learning Trajectories, Profiles, and Perspectives of Individuals with Neuromotor Disorders during Learning of a P300-based Brain-Computer Interface. (Award total: \$1,880,916).

National, Professional, and Discipline Related Services

2022- Present Associate Editor: Assistive Technology

- Disability and Rehabilitation: Assistive Technology Journal Reviewer
- Augmentative and Alternative Communication Journal Reviewer
- American Journal of Speech-Language Pathology Reviewer
- Physical Medicine and Rehabilitation Journal Reviewer
- Assistive Technology Reviewer
- Journal of Neuroscience Methods Reviewer

2016, 2019, 2021 ASHA Convention Research Proposal Reviewer, Augmentative and Alternative Communication

2016, 2017 ASHA Convention Research Proposal Reviewer, Motor Speech

Fall 2016- Spring 2017 Speech-Language-Hearing Intercampus Executive Committee Meetings
University of Kansas
Graduate Student Representative

2013-2017 Speech-Language-Hearing Graduate Student Organization
University of Kansas
Board Member (Fall 2016 - Spring 2017)
General Member (Fall 2013 - Spring 2016)

Spring 2016 Brain Discovery Fair
University of Kansas Medical Center
Station Co-leader

Spring 2015 Volunteer

SECD Department and University Service

Fall 2022- Present Member, SECD Faculty Search Committee

Fall 2021- Present Member, SECD Governance Committee of Graduate Studies

Fall 2021- Present Member, Faculty Senate Committee, University of Nebraska-Lincoln

Fall 2019- Spring 2021 Member, SECD Research Committee

State Level Service

Fall 2021-
Present Member, Olmstead in Nebraska work group whose vision is to support people with disabilities in living, learning, working, and enjoying life in the most integrated setting.

Teaching Experience

2019-Present SLPA 455: Anatomy and Physiology of Speech-Hearing
Primary Instructor, University of Nebraska-Lincoln, 4 credit hours

- Undergraduate student instructor.
- This course provides a basic understanding of voice, speech production, hearing and swallowing mechanisms

2019-Present SLPA 486/886: Augmentative and Alternative Communication (AAC)
Co-Instructor, University of Nebraska-Lincoln, 3 credit hours

- Undergraduate and Graduate student co-instructor.
- This course provides an introduction to AAC options, and interventions for speech-language pathologists and special educators

Spring 2020 SLPA 968: Motor Speech Disorders
Co-Instructor, University of Nebraska-Lincoln, 2 credit hours

- Graduate student co-instructor.
- This course provides an introduction to neurotypical and impaired neurological systems and associated impacts on speech production.

Fall 2022 Guest Lecturer on BCI-AAC for ECEN 498/898: Biomedical Signal and Image Processing. *Instructor: Dr. Khalid Sayood, University of Nebraska-Lincoln*

Spring 2020 & 2022 Guest Lecturer on BCI-AAC for BSEN 812: Rehabilitation Engineering
Instructor: Dr. Rebecca Wachs, University of Nebraska-Lincoln

Fall 2019 Guest Lecturer on BCI-AAC for CDIS 840P: Augmentative and Alternative Communication
Instructor: Dr. Michelle McKelvey, University of Nebraska-Kearney

Fall 2017-
Fall 2018 SPLH 462: Speech Science, University of Kansas
Graduate Teaching Assistant for Jonathan Brumberg, Ph.D.

- Co-direct two biophysiological recording lab sections.
- Assisted with the creation of examination materials.

Spring 2015-
Fall 2017 SPLH 570: Intro to Speech-Language Pathology, University of Kansas
Graduate Teaching Assistant for Julie Gatts & Lynn Murphy

- Provided guidance during completion of case-based assignments to support development of student's clinical problem-solving skills.
- Managed Blackboard site and graded projects.

- Fall 2013-
Spring 2015 SPLH 120: Physics of Speech, University of Kansas
Graduate Teaching Assistant for Kostas Kokkinakis, Ph.D.
- Independently taught three lab lectures per week.
 - Graded assignments and quizzes.
- Fall 2014 SPLH 660: Introduction to Research, University of Kansas
Graduate Teaching Assistant for Nancy Brady, Ph.D.
- Oversaw students during performance of in class research activities.
 - Performed statistical analysis on class project data.
- Summer 2014 CSD 713: Child Language II, Missouri State University
Graduate Teaching Assistant for Julie Masterson, Ph.D.
- Graded projects and provided feedback to students in the master's degree program.
- Spring 2014 CSD 210: Phonetics, Missouri State University
Primary Instructor, 3 credit hours.
- Undergraduate student instructor.
 - Managed, and assigned tasks to the teaching assistant.

Research Mentorship Experience (University of Nebraska-Lincoln)

Master's Thesis Chair

Fall 2022 James Foran, Masters student in Communication Sciences and Disorders.
Prior thesis chair: Dr. Naomi Rodgers

Master's Thesis Committee Member

2020-2021 Quianna Javernick, Masters student in Communication Sciences and Disorders
2020-2021 Payton Proud, Masters student in Communication Sciences and Disorders
2020 Alyssa Mollina, Masters student in Communication Sciences and Disorders

Research Assistants (Doctoral; PhD and AuD)

07/2021-Present Zachary Cole, Doctoral Student in Neuroscience and Behavior
08/2021-Present Austin Spoor, Doctoral Student in Audiology
09/2020-Present Joshua Zosky, Doctoral Student in Psychology
08/2020-07/2022 Amirsalar Mansouri, Doctoral Student in Electrical Engineering
08/2020-07/2021 Hannah Smith, Doctoral Student in Audiology

Research Assistants (Masters)

08/2022-Present Caleb Breece, Masters student in Communication Sciences and Disorders
08/2022-Present Lindsay Bals, Masters student in Communication Sciences and Disorders
01/2022-08/2022 Lacey Jessen, Masters student in Communication Sciences and Disorders
01/2022-08/2022 Chloe Strong, Masters student in Communication Sciences and Disorders
08/2021-05/2022 Kylie Weckerth, Masters student in Communication Sciences and Disorders
01/2021-08/2021 Sarah Plock, Masters student in Communication Sciences and Disorders
09/2019-07/2020 Meghan Salley, Masters student in Communication Sciences and Disorders
10/2019-08/2020 Margaret Schmidt, Masters student in Communication Sciences and Disorders

Research Assistants (Undergraduate)

08/2022-Present	Allison Yaple, Undergraduate Student in Communication Sciences and Disorders
08/2022-Present	Tatum Cool, Undergraduate Student in Communication Sciences and Disorders
07/2022-12/2022	Logan Bennett, Undergraduate Student in Communication Sciences and Disorders
07/2022-12/2022	Katie Softley, Undergraduate Student in Communication Sciences and Disorders
01/2021-12/2021	Megan Manly, Undergraduate Student in Communication Sciences and Disorders
01/2021-08/2021	Kylie Allgood, Undergraduate Student in Communication Sciences and Disorders
08/2020-08/2021	Katie Tobin, Undergraduate Student in Communication Sciences and Disorders
01/2020-08/2021	Rachel McMahan, Undergraduate Student in Communication Sciences and Disorders
07/2020-07/2021	Lucas Miller, Undergraduate Student in Computer Science and Engineer
08/2019-07/2021	Brynley Klien, Undergraduate Student in Communication Sciences and Disorders

Mentored Student Awards and Grants

08/2022-07/2023	Undergraduate Creative Activities and Research Experience, University of Nebraska-Lincoln. Title: <i>Exploring user centered design to support brain-computer interface access to augmentative and alternative communication devices for those with severe speech and physical impairment.</i> Awardee: Nathan Norby-Bryson, Psychology
2022	Top Poster Award: Research Days, University of Nebraska-Lincoln. \$400 award: <i>"Neural Responses to Functional Animation of Pictorial Symbols to provide P300-Brain-Computer Interface Access to Children"</i> . Awardee: Zachary Cole, Neuroscience and Behavior

Professional Organizations

2014-Present	American Speech-Language Hearing Association (ASHA): Certified in Clinical Competency Speech-Language Pathology (CCC-SLP).
2006-2020	American Registry of Radiologic Technologists (ARRT): Certified in Radiography and Magnetic Resonance Imaging.