

Micah E. Hirsch, M.S.

Pronouns: They/Them

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Education

Ph.D.	Communication Science and Disorders Florida State University Tallahassee, FL, USA Advisor: Dr. Kaitlin Lansford	Ongoing
Certificate	Measurement and Statistics Florida State University Tallahassee, FL, USA	2020
M.S.	Communication Science and Disorders Florida State University Tallahassee, FL, USA	2019
B.S.	Speech and Hearing Science Arizona State University Tempe, AZ, USA	2017

Professional Experience

Graduate Research Assistant NIH-NIDCD R0120468 PI: Yunjung Kim, Ph.D.	Florida State University	May 2023 – Present
Graduate Teaching Assistant	Florida State University	Aug 2022 – May 2023
Graduate Research Assistant	Florida State University	Aug 2019 – Aug 2022

Professional Memberships

National Student Speech Language Hearing Association (NSSLHA)	2016 – Present
American Speech Language Hearing Association (ASHA) Special Interest Group 19: Speech Science	2016 – Present

Honors & Awards

ASHA Pathways Protégé	2023
Kathy Yorkston Student Travel Award	2022
Presentation Travel Grant Congress of Graduate Students, FSU	2022
2 nd Place Poster Presentation Award College of Communication and Information, FSU	2019

Funding

Extramural

New Century Doctoral Scholarship ASHFoundation Amount: \$10,000 Status: Awarded	2022
Students Preparing for Academic-Research Careers (SPARC) American Speech Language Hearing Association Role: Recipient (Mentor: K. Lansford) Amount: \$1,000 Status: Awarded	2018
“Listening Effort in Dysarthric Speech Perception” National Institutes of Health, National Institute on Deafness and Other Communication Disorders 1F31 DC021635 Role: Principal Investigator (Co-Sponsors: K. Lansford & Y-J. Kim) Initial Submission: 4/8/2023. Impact Score: 40 Status: Not Funded	2023

Intramural

Research Mentor Materials Grant FSU Undergraduate Research Opportunity Program Role: Research Mentor Amount: \$250 Status: Awarded	2022
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Publications

Peer-Reviewed

- Thompson, A.R., **Hirsch, M.E.**, Kim, Y-J, & Lansford, K.L. (2023). Vowel acoustics as predictors of speech intelligibility in dysarthria. *Journal of Speech, Language, and Hearing Research*. 66(8S), 3100 – 3114. https://doi.org/10.1044/2022_JSLHR-22-00287
- Hirsch, M.E.**, Thompson, A.R., Lansford, K.L., & Kim, Y-J. (2022). The reliability and validity of speech-language pathologists' estimations of speech intelligibility in dysarthria. *Brain Sciences*. 12(8). 1011. <https://doi.org/10.3390/brainsci12081011>
- Hirsch, M.E.**, Lansford, K. L., Barrett, T., & Borrie, S. A. (2021). Generalized learning of dysarthric speech between male and female talkers. *Journal of Speech, Language, and Hearing Research*. 64(2), 444-451. https://doi.org/10.1044/2020_JSLHR-20-00313

Unpublished Manuscripts

- Hirsch, M.** (2017). *Accurate articulation of /r/: Relationships between signal processing analysis of speech and ultrasound images of the tongue* [Unpublished Honors Thesis]. Arizona State University.

Presentations

Peer-Reviewed

- Kearney, E. & **Hirsch, M.E.** (2023). *Collaborating on code in communication sciences and disorders: A hands-on tutorial* [Lecture]. Annual 2023 American Speech Language Hearing Association Convention, Boston, M.A.
- Thompson, A.R., **Hirsch, M.E.**, Lansford, K.L., & Kim, Y-J. (2023). *Speech-language pathologists' estimations of intelligibility in dysarthria: An analysis of speaker- and listener-factors* [Poster]. Annual 2023 American Speech Language Hearing Association Convention, Boston, M.A.
- Hirsch, M.E.**, Bikulcius, S., Borrie, S.A., Kim, Y-J., & Lansford, K.L. (2023). *The influence of dysarthria on listening effort* [Poster]. Annual 2023 American Speech Language Hearing Association Convention, Boston, M.A.
- El Amin, M., **Hirsch, M.E.**, & Borders, J. (2023). *Innovating research in CSD by embracing open science* [Lecture]. Annual 2023 American Speech Language Hearing Association Convention, Boston, M.A.
- Thompson, A.R., Pfeiffer, D., El Amin, M., Ciullo, B., Ford, A., **Hirsch, M.E.**, Kearney, E., & Riccardi, J. (2023). *A qualitative exploration of open science practices in*

communication sciences and disorders [Poster]. Annual 2023 American Speech Language Hearing Association Convention, Boston, M.A.

Thompson, A.R., **Hirsch, M.E.**, Kim, Y-J., & Lansford, K.L. (2022). *Vowel acoustics as predictors of speech intelligibility in dysarthria* [Lecture]. Motor Speech Conference, Charleston, S.C.

Hirsch, M.E., Therrien, M., Borrie, S.A., & Lansford, K.L. (2021). *Listener comfort and its impact on successful communication: A qualitative analysis* [Poster]. Annual 2021 American Speech Language Hearing Association Convention, Washington, D.C.

Thompson, A.R., **Hirsch, M.E.**, Lansford, K.L., & Kim, Y-J. (2021). *Speech language pathologists' approximations of speech intelligibility in dysarthria* [Poster]. Annual 2021 American Speech Language Hearing Association Convention, Washington, D.C.

Hirsch, M.E., Lansford, K.L., Borrie, S., & Barrett, T. (2019). *Familiarization of dysarthric speech: Generalization between speakers of different sex* [Poster]. Annual 2019 American Speech Language Hearing Association Convention, Orlando, FL.

Weinhold, J., Becvar, B., **Hirsch, M.**, & Wisler, A. (2017). *Signal processing analysis of /r/ - Toward identifying acoustic features that can predict acquisition of /r/* [Lecture]. Annual 2017 American Speech Language Hearing Association Convention, Los Angeles, CA.

Weinhold, J., **Hirsch, M.**, & Wisler, A. (2016). *Signal processing analysis of adult productions of /r/: Beyond F2 and F3* [Poster]. Annual 2016 American Speech Language Hearing Association Convention, Philadelphia, PA.

Teaching Experiences

Courses Taught

SPA 4257: Acquired Communication Disorders Florida State University Instructor	Spring 2023
SPA 2001: Introduction to Communication Science and Disorders Florida State University Instructor	Fall 2022
SPA 2001: Introduction to Communication Science and Disorders Florida State University Instructor	Spring 2021
SPA 4011C: Acoustics for Speech and Hearing Florida State University Co-Instructor (Supervisor: Kimberlee Crass, Ph.D.)	Spring 2021

Invited Lectures

Data Viz Using ggplot2: Tips and Tricks for Creating Custom Figures in R CSD 491: Special Topics: Data Analytics in Communication Sciences and Disorders Michigan State University	Spring 2023
Motor Speech Disorders SPA 2001: Introduction to Communication Science and Disorders Florida State University	Fall 2023, Spring 2019
Dysarthria and Acquired Apraxia of Speech CMSD 4110: Speech Disorders University of Georgia	Spring 2022
Interprofessional Practice and Teaming in Hospital Settings SPA 5055: Professional Tools in Speech-Language Pathology Florida State University	Spring 2019

Mentored Research

Undergraduate Thesis

Florida State University

Bikulcius, S.	2023 – Present
Davis, P.	2021 – 2022
Lehnert, A.	2019 – 2020

Undergraduate Research

Florida State University

Bikulcius, S. (UROP)	2022 – 2023
Strickland, M. (UROP)	2021 – 2022
Bishop, A. (UROP)	2021 – 2022

Service to the Profession

Volunteer Organizations

Co-Founder OpenCSD	2022 – Present
Collaborator CSDisseminate	2022 – Present
Volunteer Research Ambassador CSDisseminate	2022

Committee Service

Speech and Language Science Topic Committee American Speech Language Hearing Association Convention	2022, 2020
Motor Speech Disorders Across the Lifespan American Speech Language Hearing Association Convention	2021

Ad Hoc Reviewer for Scholarly Journals

International Journal of Speech-Language Pathology

Clinical Linguistics and Phonetics

Seminars in Speech and Language

Service to the University

Florida State University

Student Member Graduate Student Life Task Force Division of Student Affairs	2022
LGBTQ+ Student Advocate Representative Congress of Graduate Students	2020 – 2022
College of Communication and Information Representative Congress of Graduate Students	2018

Programming Languages

R	Advanced Proficiency
Python	Novice Proficiency

Technical Skills

Computing Tools	R Studio, RMarkdown, Visual Studio Code, PyCharm, Git and Github
Software	Audacity, PRAAT, EyeLink Experiment Builder, Qualtrics, Gorilla Online Experiment Builder
Hardware	EyeLink 1000/EyeLink Portable Duo