

Allison I. Hilger

Curriculum Vitae

E-mail: allison.hilger@colorado.edu

PROFESSIONAL CREDENTIALS

Certificate of Clinical Competency in Speech-Language Pathology (since 2016)

Licensed Speech-Language Pathologist: State of Illinois (2016-present)

Illinois Educator License (2016-present)

RESEARCH INTERESTS

Motor control of speech production for prosody; effects of aging on motor speech control; prosodic impairment in ataxia and other dysarthrias; speech naturalness in second language acquisition; speaking characteristics in intergenerational communication

ACADEMIC AND PROFESSIONAL POSITIONS

2020-Now Assistant Professor (Tenure-track), University of Colorado Boulder,
Department of Speech, Language, and Hearing Sciences, Boulder, CO

2016-2020 Graduate Research Assistant, Speech Physiology Lab, Northwestern
University, Department of Communication sciences and Disorders,
Evanston, IL

EDUCATIONAL BACKGROUND

- 2020 **Northwestern University**
Doctor of Philosophy (PhD), Communication Sciences and Disorders
Dissertation: *Impaired sensorimotor integration for prosodic production in ataxic dysarthria*, Chair: Dr. Charles Larson; Committee members: Drs. Jennifer Cole, Bonnie Martin-Harris, and Tina Grieco-Calub
Additional Certification and Training: Cognitive Science Specialist (02/2018); Teaching Certificate (06/2019); Research Communication Training Program (12/2019)
- 2015 **Purdue University**
Master of Science (MS), Speech, Language, and Hearing Science
Thesis: *Examining a bimanual motor timing deficit in preschool children who stutter*, Thesis Chair: Dr. Anne Smith; Committee Members: Drs. Christine Weber, Howard Zelaznik, and Anu Subramanian
- 2013 **University of Illinois**
Bachelor of Science, Speech and Hearing Science
Thesis: *Characterizing American Sign Language fluency using the Spatiotemporal Index*, Thesis Co-Chairs: Drs. Torrey Loucks and Matthew Dye

FELLOWSHIPS/GRANTS

Title: Impaired sensorimotor integration for prosodic production in ataxic dysarthria
Agency: National Institutes of Health National Research Service Award (F31), \$69,738
Status: Awarded, 2019

Agency: Acoustic Society of America (ASA) Raymond H. Stetson Fellowship in Phonetics and Speech Production
Status: Honorable Mention, 2019

Title: Impaired sensorimotor integration for prosodic production in ataxic dysarthria
Agency: Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) Ph.D. Scholarship, \$20,000
Status: Awarded, 2019

Title: Audio-vocal efficiency in early childhood: an insight into speech-motor development
Agency: National Science Foundation Graduate Research Fellowship Program
Status: Honorable Mention, 2017

Title: The effect of early motor skills on speech and language development in Autism Spectrum Disorder: Insights into system interactions in typical development
Agency: National Science Foundation Graduate Research Fellowship Program
Status: Honorable Mention, 2016

PUBLICATIONS

Hilger, A., Levant, S., Kim, J., Lester-Smith, R., Larson, C. (*In Preparation*) Acoustic correlates of prosody work as integrated channels with weightings varying by linguistic intent.

Hilger, A., Levant, S., Kim, J., Lester-Smith, R., Larson, C. (*In Preparation*) Auditory feedback control of vocal intensity during speech and sustained-vowel production. *Journal of Voice*.

Schenck, A., **Hilger, A.,** Levant, A., Kim, A., Lester-Smith, R., Larson, C. (*Submitted*) The effect of pitch and loudness auditory feedback perturbations on voice quality during sustained phonation. *Journal of Voice*.

Lester-Smith, R., Kim, J., **Hilger A.,** Chan, CL., Larson, C. (*Submitted*) Auditory-motor control of fundamental frequency in vocal vibrato. *Journal of Speech, Language, and Hearing Research*.

Hilger, A., Cole, J., Kim, J., Lester-Smith, R., Larson, C. (2020) Using auditory feedback to scale anticipatory intonation targets in phrasal production. *Journal of Speech, Language, and Hearing Research*.

Hilger, A., Zelaznik, H., Smith, A. (2016) Evidence that bimanual motor timing performance is not a significant factor in developmental stuttering. *Journal of Speech, Language, and Hearing Research*.

Hilger, A., Loucks, T., Quinto-Pozos, D., Dye, M.W. (2015) Second language acquisition across modalities: production variability in adult L2 learners of American Sign Language. *Journal of Second Language Research*.

PRESENTATIONS

Hilger, A. & Spencer, C. (2020). Characteristics of speech in ataxia and implications for speech therapy. Proposal accepted at the Annual Convention of the American Speech-Language-Hearing Association, San Diego, CA (Convention canceled).

Hilger, A. & Larson, C. (2020) Impaired auditory feedback control for pitch production in speech in ataxic dysarthria. Poster Presentation. Ataxia Investigators Meeting. Denver, CO. (Conference Canceled due to COVID-19).

Hilger, A., Cole J., Kim, J., Larson, C. (2020) Impaired sensorimotor integration for the adjustment of phrasal prominence in ataxic dysarthria. Oral Presentation. Conference for Motor Speech. Santa Barbara, CA.

Hilger, A., Levant, S., Kim, J., Lester-Smith, R., Larson, C. (2019) Auditory feedback control of vocal intensity during speech and sustained-vowel production. Poster to be presented at the Acoustical Society of America Meeting. San Diego, CA.

Hilger, A., Kim, J., Levant, S., Larson, C. (2019) Acoustic correlates of prosody work as integrated channels with weightings varying by linguistic intent. Oral Seminar presented at the American speech Language Hearing Association Meeting. Orlando, FL.

Hilger, A. & Larson, C. (2019) Increased Auditory Feedback Sensitivity Early in Phrasal Production. The Voice Foundation. Poster Presentation. Philadelphia, PA. (Best Student Presentation Award)

Sandepudi, K., **Hilger, A.,** Kim, J., Larson, C. (2019) Attention to Vocal Source Modulates Responses to Pitch-shifted Voice Auditory Feedback. The Voice Foundation. Oral Presentation. Philadelphia, PA.

Kreidler, K. & **Hilger, A.** (2018) Putting Research into Practice: Performing Research as a Clinician. American Speech Language Hearing Association Meeting. Technical Clinical Talk. Boston, MA.

Hilger, A., Cole, J., Larson, C. (2018). The timecourse of F0 planning for intonational tones. Poster presented at Laboratory Phonology, Lisbon, Portugal.

Hilger, A., Cole, J., Larson, C. (2018) Manipulating prosody: speech-acoustic responses to vocal feedback perturbations prior to phrasal prominence. Motor Speech Conference. Oral Presentation. Savannah, Georgia.

Hilger, A. & Kreidler, K. (2017) Navigating the Clinical Fellowship. American Speech Language Hearing Association Meeting. Poster. Los Angeles, CA.

Hilger, A., Cole, J., Roberts., A. (2017) A proposed method for analyzing phrase-level prosodic analysis of hypokinetic dysarthria: an auto-segmental metrical approach. American Speech Language Hearing Association Meeting. Poster. Los Angeles, CA.

Hilger, A., Zelaznik, H., Smith, A. (2014) Examining a bimanual motor deficit in Preschool children who stutter. Technical Research Talk. American Speech Language Hearing Association Meeting, Orlando, Florida.

Hilger, A., Loucks, T., Quinto-Pozos, D., Dye, M.W. (2013) Characterizing American Sign Language fluency using the Spatiotemporal Index. Poster presented at the Theoretical Issues in Sign Language Research Conference, London, England.

INVITED TALKS

Hilger, A. (2019) Speech and Swallowing in Ataxia. St. Louis Ataxia Support Group. St. Louis, IL.

Hilger, A. (2019) Speech difficulties in Ataxia. Fox Valley Ataxia Support Group. Crystal Lake, IL.

Hilger, A. (2019) Speech difficulties in Ataxia. Fight Ataxia Support Group. Video-conference meeting.

Hilger, A. (2019) Swallowing difficulties in Ataxia. Fox Valley Ataxia Support Group. Crystal Lake, IL.

Hilger, A. (2018) Manipulating prosody: speech-acoustic responses to vocal feedback perturbations prior to phrasal prominence. Motor Speech Conference. Phonatics Journal Club. Evanston, IL.

HONORS AND AWARDS

2019	Best Student Presentation Award, The Voice Foundation
2019	New Investigators Research Forum Recipient, The Voice Foundation
2019	Boston Speech Motor Control Symposium Travel Fellowship Awardee
2019	The Graduate School Conference Travel Grant, Northwestern University
2018	Cognitive Science Travel Grant, Northwestern University
2017	The Graduate School Conference Travel Grant, Northwestern University
2015	Weinberg-Derivative Fund for Conference Research Travel Grant, Purdue University
2013	High Honors, University of Illinois
2013	Departmental Distinction, University of Illinois
2013	Applied Health Sciences Career Development and Leadership Award, University of Illinois
2013	Undergraduate Research Travel Grant, University of Illinois
2013	Deans List, University of Illinois

TEACHING EXPERIENCES

University of Colorado Boulder			
Course Number & Title (* = graduate; ** = undergraduate)	Year (Term)	Average Enrollment	Teaching Role
SLHS 3116: Speech Science**	2020 (Fall); 2021 (Spring)	44 (expected)	Instructor of Record
SLHS 5292: Neurogenic Speech Disorders in Adults*	2020 (Fall)	35(expected)	
Northwestern University			
Course Number & Title (* = graduate; ** = undergraduate)	Year (Term)	Average Enrollment	Teaching Role
LING 480: American Academic Culture for Non-Native speakers of English*	2019 (Summer)	17	Co-Instructor
TGS 508: Foundations of American English and Academic Culture*	2019 (Summer)	41	Teaching Assistant
CSD 490: Adult Neuromotor Speech Disorders*	2019 (Spring); 2019 (Winter)	30	
CSD 301: Anatomy and Physiology of the Vocal Mechanism **	2018 (Fall)	12	Laboratory instructor
CSD 474: Clinical Methods: Adult Populations *	2018 (Spring)	30	Teaching Assistant

CSD 494: Fluency and Fluency Disorders *	2018 (Winter); 2017 (Winter)	70	
CSD 455: Clinical Speech Anatomy, Physiology, and Motor Control *	2017 (Fall)	70	
CSD 463: The Field of Special Education *	2016 (Fall)	70	

GUEST LECTURES

University of Cincinnati

CSD 7034: Neurogenic Speech Disorders 2020
Course Director: Caroline Spencer, MS
 “Prosody”

Northwestern University

CSD 490: Adult Neuromotor Speech Disorders 2019
Course Directors: Sarah Love Penzell, MA, CCC-SLP & Karen Kinderman, MS, CCC-SLP
 “Ataxic Dysarthria”

CSD 332: Clinical Assisting 2019
Course Director: Aaron Wilkins, MS, CCC-SLP
 “Treating speech and language disorders in individuals 1-101 years of age”

CSD 492: Vocal Physiology and Pathology 2019
Course Director: Nathan Waller, MS, CCC-SLP
 “Introduction to Voice and Communication Therapy for Patients with Parkinson’s Disease”

CSD 475: Advanced Clinical Methods 2017
Course Director: Stacy Kaplan, PhD, CCC-SLP
 “The Clinical Fellowship Experience”

CSD 463: Special Education 2017
Course Director: Frances Block, MS, CCC-SLP
 “My experiences working in special education”

CLINICAL EXPERIENCE

2018-2019 Speech Language Pathologist, CCC, Independent Contractor for the State of Illinois Disability Determination Services, Chicago, IL

2016-2017 Speech Language Pathologist, CCC, Ayuda Rehab and Wellness Home Health, Chicago, IL

2015-2016 Speech Language Pathologist, CF, Proviso Area for Exceptional Children, Maywood, IL

2015-2016 Speech Language Pathologist, CF, Grow with M.E. Early Intervention, Chicago, IL

ACADEMIC AND PROFESSIONAL PARTICIPATION

2017, 2019 Volunteer, PhD Recruitment Weekend, Dept. of Communication Disorders and Sciences, Northwestern University

2019 Participant, Academic Job Market Working Group

2018 Ad-hoc Reviewer, Journal of Communication Disorders

2018, 2019 Mentee, The Mentoring Academic Research Careers (MARC), Program, American Speech-Language-Hearing Association

2018 Volunteer, MidPhon Conference, Northwestern University

2016-present Co-organizer, Motor Control, Cognition, and Learning of Speech and Swallowing Journal Club (MCCLSS), Northwestern University

2016-present Member, Phonatics Journal Club, Northwestern University

2016-2018 Member, Soundlabz Journal Club, Northwestern University

COMMUNITY SERVICE AND OUTREACH

2019 Election Judge, Chicago Mayoral Election, Chicago, IL

2018 Election Judge, Midterm Elections, Chicago, IL

2017 Volunteer, Chicago Cares Young Scientists Program, Chicago, IL

2017 Volunteer, HerStory, Museum of Science and Industry, Chicago, IL

PROFESSIONAL MEMBERSHIP

2019-present National Ataxia Foundation

2019-present Member, Acoustical Society of America

2016-present Member, American Speech-Language-Hearing Association

2013-2015 Member, Sign Language Linguistics Society

LANGUAGE PROFICIENCY

English – Native proficiency

Spanish – Conversational proficiency

American Sign Language – Novice proficiency

Coding languages: Praat (scripting), Python, Matlab, Javascript, MaxMSP, R