Sara Benham, Ph.D., CCC-SLP

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EMPLOYMENT

2021-current Postdoctoral Fellow, Department of Psychological and Brain Sciences, Cognitive Development Lab (PI: Linda Smith), Indiana University, Bloomington, IN

EDUCATION

Ph.D., 2021	Speech, Language, & Hearing Sciences, The University of Texas at Dallas, Richardson, TX Dissertation title: <i>Phonological organization in the production of novel words in typical and atypical language development</i> Committee: Lisa Goffman, Christine Dollaghan, William Katz, & Jun Wang
M.S., 2016	Speech-Language Pathology, Purdue University, West Lafayette, IN Thesis title: <i>Deficits in sound pattern sequencing in children with specific language impairment: A networks approach</i> Committee: Lisa Goffman, Laurence Leonard, & Françoise Brosseau-Lapré
B.A., 2006	Spanish, Southwestern University, Georgetown, TX

RESEARCH EXPERIENCE

2021-current	Post-doctoral Research Fellow, Cognitive Development Lab, Indiana University NIH T32 NICHD HD007475, <i>Training Program in Integrative Developmental Process</i> (PI: Linda Smith)
2017-2019	Research Assistant, Language in Motion Lab, The University of Texas at Dallas NIH NIDCD R01 DC016813, Sequential Pattern Learning in Children with Developmental Language Disorder (PI: Lisa Goffman)
2013-2016	Research Assistant, Language in Motion Lab, Purdue University NIH NIDCD R01 DC04826, Language-Motor Relations in Children's Speech Production (PI: Lisa Goffman)
2012-2013	Research Assistant, Great Plains Health Research Consortium Translational Research Grant, University of Nebraska-Lincoln (PIs: Jordan Green & Tiffany Hogan)

GRANT FUNDING

2021-current NIH T32 NICHD HD007475, Training Program in Integrative Developmental Process

(PI: Linda Smith, Trainee: **Sara Benham**, Indiana University) Faculty Mentors: Linda Smith, Michael Jones, and Richard Betzel

Withdrawn NIH F32 NIDCD DC019815 National Research Service Award

Referential and Phonological Bases of Novel Word Form Learning in Adults with and

without Developmental Language Disorder

(PI: Sara Benham, Co-Sponsors: LouAnn Gerken & Elena Plante, University of Arizona, Impact Score: 25, recommended for funding, declined due to acceptance of

NICHD T32 position)

2019-2021 NIH F31 NIDCD DC017904, National Research Service Award

Novel Phonological Sequence Learning in Early Typical and Atypical Development

(PI: Sara Benham, Co-Sponsors: Lisa Goffman & Jun Wang, The University of Texas at

Dallas)

2015-2016 NIH T32 NIDCD DC000030, Predoctoral Trainee in Communicative Disorders

(PI: Laurence Leonard, Trainee: Sara Benham, Purdue University)

PEER-REVIEWED ARTICLES

Benham, S.*, Wisler, A.*, Berlin, J., Wang, J., & Goffman, L. (accepted pending minor revisions). Acoustic and kinematic methods of indexing spatiotemporal stability in children with developmental language disorder.

*Equal contribution

Benham, S. & Goffman, L. (2021). A longitudinal study of the phonological organisation of novel word forms in children with developmental language disorder. *International Journal of Speech-Language Pathology*, 24, 212-223.

Benham, S. & Goffman, L. (2020). Lexical-semantic cues induce sound pattern stability in children with developmental language disorder. *Journal of Speech, Language, and Hearing Sciences, 63*(12), 4109-4126.

Benham, S., Goffman, L., & Schweickert, R. (2018). An application of network science to phonological sequence learning in children with developmental language disorder. *Journal of Speech, Language, and Hearing Sciences*, 61(9), 2275-2291.

INVITED TALKS

Benham, S. (March 2022) A Developmental Framework for Assessing Word and Sound Learning in Children with Typical and Atypical Language, Oral presentation at the University of Missouri Speech, Language, and Hearing Sciences brownbag series.

Benham, S., Goffman, L. (May 2019) *Network Science Contributions to Characterizing the Phonological Structure of Novel Word Learning in Typical and Atypical Language Development*, Oral presentation at "How systems learn, change, and self-organize: Insights from network science," Emerging Area of Research workshop, Indiana University, Bloomington, IN.

CONFERENCE PRESENTATIONS

- **Benham, S.,** Borjon, J.I., Yu, C., Smith, L.B. (July, 2022) *The Alignment of Vocalization Onset with Hand Movement in Infants and Toddlers: Speech and Language Contributions*. <u>Poster</u> presented at the International Congress of Infant Studies. Ottawa, CA.
- Scoppa, M., Gerken, L.A., Glickman, S., **Benham, S.,** Goffman, L. (June, 2022) *The Acquisition of a Rule-Based Sound Sequence in Typically Developing 4- to 6-year-old Children*, <u>Poster</u> presented at the annual Symposium on Research in Child Language Disorders, Madison, WI.
- Wisler, A., **Benham, S.,** Berlin, J., Wang, J., Goffman, L. (February, 2022) *Acoustic and Kinematic Indices of Spatiotemporal Stability in Children's Productions of Words and Nonwords*, <u>Oral presentation</u> at Motor Speech Conference, Charleston, SC.
- Myers, I., **Benham, S.,** Goffman, L. (June, 2021) *Deficits in Articulatory Organization in the Production of Familiar Words in Children with Developmental Language Disorder*, <u>Poster presented at the annual Symposium on Research in Child Language Disorders</u>, Madison, WI.
- **Benham, S.** (November, 2020) Using Network Science to Assess Speech Patterns in Novel Word Learning in Children with Typical and Atypical Language Development, Oral presentation at 'Using Network Science to Understand Language' Symposium at Psychonomics Conference (virtual format).
- Goffman, L., **Benham, S.**, & Vuolo, J. (June, 2019) *Deficits in the Production of Phonological Form as a Core Feature of Developmental Language Disorder*, <u>Oral presentation</u> at the annual International Child Phonology Conference, Montreal, Quebec, Canada.
- **Benham, S.** & Goffman, L. (June, 2019) *Articulatory and Phonological Methods for Assessing Speech Production Variability in Typical and Atypical Language Development*, <u>Poster</u> presented at the annual International Child Phonology Conference, Montreal, Quebec, Canada.
- **Benham, S.** & Goffman, L. (June, 2019) *The Role of a Lexical Referent in Stabilizing Speech Production in Children with Developmental Language Disorder*, <u>Poster presented at the annual Symposium on Research in Child Language Disorders</u>, Madison, WI.
- **Benham, S.**, & Goffman, L. (June, 2018) *Segment and Syllable Relationships in Novel Word Learning in Children with Typical and Atypical Language Development*, <u>Poster</u> presented at annual LabPhon16 Conference, Lisbon, Portugal.
- Goffman, L., **Benham, S**., & Gladfelter, A. (June, 2018) *Phonological Sequencing Deficits in Spoken and Signed Words in Children with Developmental Language Disorder*, <u>Poster</u> presented at annual LabPhon16 Conference, Lisbon, Portugal.

- **Benham, S.**, & Goffman, L. (June, 2017) *Lexical and Phonological Effects of Nonwords on Children with Developmental Language Disorder*, Oral presentation at annual International Child Phonology Conference, Washington, D.C.
- **Benham, S.**, Goffman, L., & Schweickert, R. (October, 2016) *An Application of Network Science to Speech Production in Children with SLI*, <u>Oral presentation</u> at the Winer Conference on Network Science in Cognitive Structures, West Lafayette, IN.
- **Benham, S.**, & Goffman, L. (June, 2016). *Deficits in Sound Pattern Sequencing in Children with SLI: A Networks Approach*. <u>Poster</u> presented at the Symposium on Research in Child Language Disorders, Madison, WI.
- Vuolo, J., **Benham, S.**, & Goffman, L. (March, 2016). *Speech Motor Control and Language Load in Typical and Atypical Learners*. <u>Oral presentation</u> at the International Motor Speech Conference, Newport Beach, CA.
- **Benham, S.**, & Goffman, L. (June, 2015). *Differential Effects of Motor and Phonetic Variability on Speech Production in Children with SLI*. <u>Poster</u> presented at annual International Child Phonology Conference, St. John's, Newfoundland & Labrador, Canada.
- **Benham, S.**, & Goffman, L. (November, 2014). *The Relationship of Language, Motor, and Speech Profiles to the Acquisition of a Novel Word*. <u>Poster presented at annual American Speech-Language-Hearing Association</u>, Orlando, FL.

DEPARTMENTAL PRESENTATIONS

- **Benham, S.** (December 2021) *Multiple Pathways in Word Learning: Using Multilayered Networks to Characterize Learning Trajectories and Avenues for Intervention*, Oral presentation at the departmental Developmental Seminar, Indiana University, Bloomington, IN.
- **Benham, S.** (October 2018) *Novel Phonological Sequence Learning in Typical and Atypical Language Development,* Oral presentation at the departmental FLASH seminar, University of Texas at Dallas, Dallas, TX.
- Fearing, L., **Benham, S.**, Tensmeyer, E., & Goffman, L. (February 2018) *Markedness and Speech Errors in Nonword Repetition in Children with Developmental Language Disorder*, Poster presented at the Callier Promotion of Academic and Clinical Excellence Student Research Forum, University of Texas at Dallas, Richardson, TX.
- **Benham, S.**, & Goffman, L. (April 2017) *Phonological Sequences in Words and Nonwords in Children with Developmental Language Disorders: A Networks Approach*, Oral presentation at the departmental FLASH seminar, University of Texas at Dallas, Dallas, TX.

Benham, S., & Goffman, L. (March 2017) *Production of Segments and Syllable Structures in Nonwords in Children with Developmental Language Disorders*, Poster presented at the Callier Promotion of Academic & Clinical Excellence Student Research Forum, The University of Texas at Dallas, Richardson, TX.

Benham, S., Goffman, L., & Schweickert, R. (October 2016) *An Application of Network Science to Speech Production in Children with SLI*, Oral presentation at the SLHS Department Proseminar, Purdue University, West Lafayette, IN.

TEACHING EXPERIENCE

2022	Guest lecturer, Introduction to Speech, Language, and Hearing Disabilities/Differences in Society, Central Michigan University
	(Lecture on speech and language considerations for culturally and linguistically diverse populations)
2022	Guest lecturer, Research Methods in Psychology, The University of Texas at Dallas
	(Lecture on F31/F32 grant writing)
2020	Teaching assistant, Language Acquisition, The University of Texas at Dallas
2019	Guest lecturer, Grant Writing, University of Texas at Dallas
	(Lecture on NIH F31 grant preparation and reviews from a student perspective)
2016	Guest lecturer, Speech Disorders in Children, Purdue University
	(Lectures on oral motor assessment, speech assessment, and assessment of culturally and
	linguistically diverse populations)

FELLOWSHIPS & AWARDS

2022	IU-Bloomington Provost's Travel Award for Women in Science
2019-2021	Eugene McDermott Graduate Fellowship, University of Texas at Dallas
2019	Linguistic Society of America Summer Linguistic Institute Fellowship, Davis, CA
2019	Dean of Graduate Education Dissertation Research Award, University of Texas at Dallas
2019	ASHA Research Mentoring-Pair Travel Award to attend ASHA Research Symposium
	(Mentor: Elena Plante), Orlando, FL
2019	Prix d'exellence pour communication scientifique (Student Award for Excellence in
	Scientific Communication) for poster presentation at the International Child Phonology
	Conference, Montreal, Quebec, Canada
2019	Symposium on Research in Child Language Disorders; Mayor Paul National Travel
	Award
2017-2019	UTD Departmental Travel Award
2016	Symposium on Research in Child Language Disorders Travel Award
2016	Purdue Graduate Student Government Travel Award

LICENSURE & CLINICAL EXPERIENCE

2022	Indiana Speech-Language Pathology license (#22008264A)
2021	American Speech-Language-Hearing Association Certificate of Clinical Competence in
	Speech-Language Pathology (#14089758)
2018-2021	Clinical Fellow, Callier Center for Communication Disorders, The University of Texas at
	Dallas (TX SLP-Intern #114429)
	(Clinical experiences in preschool language disorders, Spanish-English speech and
	language assessments, pediatric speech and language evaluations)
2018	Center for Children and Families Developmental Screening Fair, Spanish/English speech-
	language screening, Dallas, TX
2014	Volunteer clinician, motor and aquatic therapy program (PETE's PALs), Purdue
	University, Lafayette, IN

SERVICE CONTRIBUTIONS

- Ad hoc journal reviewer: Journal of Speech, Language, and Hearing Research (2022), Cognitive Science (2021), International Journal of Speech-Language Pathology (2021)
- Ad hoc conference reviewer: LabPhon18 Conference (2021), Communication Sciences Review Committee: annual ASHA Conference (2015)
- Panelist, SLP & AuD collaboration at Central Michigan University NSSLHA chapter (2021)
- Panelist, Office of Research/Office of Graduate Education NIH Fellowship Awardee Panel, The University of Texas at Dallas (2020)

MENTORSHIP

Masters (MA)

2022-current Graduate Speech, Language, and Hearing Sciences Research Assistants

Cognitive Development Lab, Indiana University

Training in phonetic transcription and reliability procedures of infant vocalizations (ages 9-24 months), discussion of infant vocalization literature

 Zoe (Roberts) East, Natalie Lester, Danielle Dierker, Ryleigh Caldwell, Samuel Holdeman

Undergraduate

2022-current Undergraduate Psychology Research Assistants

Cognitive Development Lab, Indiana University

<u>Training in data analysis, participant recruitment, reading scholarly articles, supervision of a research project and final poster presentation, professional development</u>

• Chloe Walsh, Angelena Lara, Austin Himebaugh, AJ Humbert, Sanjana Puthigai, Yaira Rodriguez

2019-2021 Undergraduate Speech, Language, and Hearing Science Research Assistants

The University of Texas at Dallas

NIH F31 NIDCD DC017904, Novel Phonological Sequence Learning in Early Typical and Atypical Development, PI: Sara Benham

Mentorship of senior capstone project; acoustic analysis of 2- and 4-year-old speech

Julia LaFond, MS-SLP, Eugene McDermott scholar

Senior Capstone: Duration analysis to identify covert contrast in the production of novel words

PROFESSIONAL AFFILIATIONS

- American Speech-Language-Hearing Association
- American Speech-Language-Hearing Association Special Interest Group 14: Cultural and Linguistic Diversity
- International Congress on Infant Studies
- Women in Network Science

PROFESSIONAL DEVELOPMENT

2022	Implementation Science Is For All: A CSD Practice-Research Exchange conference
	attendee
2021-2022	Indiana University Network Science Institute workshop series attendee
2021-2022	American Speech-Language-Hearing Association's Mentoring Academic-Research
	Careers (MARC) Program mentee (Mentor: Adam Buchwald, PhD)
2020	American Speech-Language-Hearing Association's Lessons for Success Program mentee
2020	Graduate Teaching Certificate Program, University of Texas at Dallas

ANALYTIC AND STATISTICAL PROGRAMS

- Programs for language analysis: SALT
- Programs for video coding: Datavyu
- Programs for speech analysis: Praat, Phon
- Programs for statistical computation and graphics: R, SPSS, Statistica, Gephi, NodeXL
- Programming languages: R, Matlab

LANGUAGES

Fluent in English and Spanish