

Sara Benham, Ph.D., CCC-SLP
Department of Psychological and Brain Sciences
1101 E. 10th Street
Bloomington, IN 47405
Email: benhamsaraj@gmail.com

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: *Phonological organization in the production of novel words in typical and atypical language development*
Committee: Lisa Goffman, Christine Dollaghan, William Katz, & Jun Wang
- M.S., 2016 Speech-Language Pathology, Purdue University, West Lafayette, IN
Thesis title: *Deficits in sound pattern sequencing in children with specific language impairment: A networks approach*
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, *Training Program in Integrative Developmental Process*
(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- Withdrawn* NIH F32 NIDCD DC019815 National Research Service Award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**, Sponsor: Lisa Goffman, 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. (2023). Acoustic and kinematic methods of indexing spatiotemporal stability in children with developmental language disorder. *Journal of Speech, Language, and Hearing Sciences*, 1-12

**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

Cullinan, M., **Benham, S.,** Gladfelter, A., & Goffman, L. (June, 2023) *The Role of Semantic Richness in Novel Word-Form Learning in Children with DLD*, Poster presented at the annual Symposium on Research in Child Language Disorders, Madison, WI.

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*. Poster 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*, Poster 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*, Oral presentation 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*, Poster presented at the annual Symposium on Research in Child Language Disorders, 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*, Oral presentation 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*, Poster 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*, Poster presented at the annual Symposium on Research in Child Language Disorders, Madison, WI.

Benham, S., & Goffman, L. (June, 2018) *Segment and Syllable Relationships in Novel Word Learning in Children with Typical and Atypical Language Development*, Poster 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*, Poster 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*, Oral presentation 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*. Poster 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*. Oral presentation 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*. Poster 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*. Poster presented at annual American Speech-Language-Hearing Association, Orlando, FL.

DEPARTMENTAL PRESENTATIONS

Benham, S. (December 2022) *Each Child Makes Their Own Journey: Early Productive Vocabulary Development*, Oral presentation at the departmental Developmental Seminar, Indiana University, Bloomington, IN.

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

- 2021-current Supervised Research, Cognitive Development Lab, Indiana University
- 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'excellence 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) <i>(Clinical experiences in preschool language disorders, Spanish-English speech and language assessments, pediatric speech and language evaluations)</i>
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; Cognitive Science; International Journal of Speech-Language Pathology; Cognitive Research: Principles and Implications; Proceedings of the National Academy of Sciences; Language, Speech, and Hearing Sciences in the Schools*
- Ad hoc conference reviewer: LabPhon18 Conference; Communication Sciences Review Committee: annual ASHA Conference; Many Paths to Language Conference
- Panelist, SLP & AuD collaboration at Central Michigan University NSSLHA chapter
- Panelist, Office of Research/Office of Graduate Education NIH Fellowship Awardee Panel, The University of Texas at Dallas

MENTORSHIP

Masters (MA)

2022-current **Graduate Speech, Language, and Hearing Sciences Research Assistants**
Cognitive Development Lab, Indiana University
Training of 5 MS SLHS students in phonetic transcription and reliability procedures of infant vocalizations (ages 9-24 months), discussion of infant vocalization literature

Undergraduate

2022-current **Undergraduate Psychology Research Assistants**
Cognitive Development Lab, Indiana University
Training of 20+ undergraduate Psychological and Brain Science students in data analysis, participant recruitment, reading scholarly articles, supervision of a research project and final poster presentation, professional development

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*

PUBLIC OUTREACH

- 2023 Bilingualism and Language Development
Indiana University's Campus View Children's Center
Indiana University's Campus Children's Center
Talk for parents and families on bilingual language development
- 2023 Small Talk: Multiple Language Development for Kids
Indiana University's Campus Children's Center
Teacher workshop on bilingual language development
- 2022 Radio interview with Josefa Madrigal for the Child Scientist Program at IU Psychological
and Brain Sciences Department
Hola Bloomington, WFHB, Spanish radio program Bloomington, IN
<https://wfhb.org/news/hola-bloomington-october-28-2022/>
- 2022 Small Talk: Multiple Language Development for Kids
Monroe County Public Library, Bloomington IN
Talk for parents and families on bilingual language development

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, ELAN
- 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