

Laurel Bruce, Ph.D., CCC-SLP

Clinical Assistant Professor of Speech and Hearing Science
Arizona State University, College of Health Solutions
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EDUCATION

- 2016-2020 Ph.D., Speech and Hearing Science
Arizona State University
Concentration: Translational Genetics of Communication Abilities
Dissertation: Biomarkers of Familial Speech Sound Disorders: Genes, Perception, and Motor Control
Advisor: Beate Peter
Committee: Ayoub Daliri, Li Liu, Nancy Scherer, Juliet Weinhold
- 2010-2016 Graduate Diploma: Old Testament Hebrew and New Testament Greek
Phoenix Seminary
- 2006 Graduate Coursework in Linguistics through the Summer Institute of Linguistics
- 2002-2004 M.S., Communication Disorders
Arizona State University
- 1998-2002 B.S., Speech and Hearing Science
Arizona State University
Graduate of Barrett, The Honors College
Thesis: Assessing the Early Stages of Language Acquisition in Spanish-Speaking Children with Language Delay, Thesis Chair: David Ingram

PROFESSIONAL HISTORY

- 2020-Present Clinical Assistant Professor of Speech and Hearing Science, College of Health Solutions, Arizona State University
- 2019-2020 Project Manager, Babble Boot Camp, NIH R01 HD098253 Grant, Arizona State University
- 2016-2019 Research Assistant and Teaching Assistant, Arizona State University
- 2004-2016 Speech-Language Pathologist, Scottsdale Unified School District
- 2006-2012 Speech-Language Pathologist, Grace Christian Academy

CERTIFICATIONS

- 2005-Present Certificate of Clinical Competence in Speech-Language Pathology, American Speech-Language-Hearing Association
- 2004-Present Speech-Language Pathology License, Arizona Department of Health Services
- 2004-Present Standard Speech/Language Impaired K-12 Teaching Certificate, Arizona Department of Education

AWARDS/GRANTS

- 2021 ASU CHS nominee for ProQuest Distinguished Dissertation Awards
- 2020 ASU Graduate College Completion Fellowship
- 2020 ASU Graduate and Professional Student Association JumpStart Grant
- 2019 ASU Graduate and Professional Student Association Teaching Excellence Award
- 2019 Speech and Hearing Science Marilyn Miller Quintana Moline Fellowship
- 2019 ASU Graduate College Fellowship
- 2017 ASHA Meritorious Poster Submission
- 2014 Scottsdale Unified School District Quest for Excellence Grant
- 2003 ASU Clinical Achievement Award
- 2002 ASU James Case Speech and Hearing Scholarship

TEACHING

Graduate Courses

- SHS 585: Articulation and Phonology Assessment and Intervention, Immersion: Fall 2021, Fall 2022

Undergraduate Courses

- SHS 250: Introduction to Phonetics, Online: Spring 2019, Spring 2021, 2022 Fall 2021, 2022
- SHS 465: Speech/Language Acquisition, Immersion: Spring 2021, 2022
- SHS 465: Speech/Language Acquisition, Online: Spring 2021, 2022 Fall 2021
- CHS 484: Applied Health Experience, Online: Spring 2021, 2022 Fall 2021

Clinical Supervision

- After School Articulation and Phonology Program, ASU: Spring 2017, Fall 2018, Spring 2018, Fall 2018
- Elementary School Rotation, ASU: Lowell Elementary-Fall 2016, Spring 2017, Fall 2017; Holmes Elementary-Spring 2018; Barr Elementary-Fall 2018
- Early Intervention at Educare Arizona, ASU: Fall 2016

PUBLICATIONS

Journal Articles, Accepted

Bruce, L., & Peter, B. (2022). Three children with different de novo BCL11A variants and diverse developmental phenotypes, but shared global motor discoordination and apraxic speech: Evidence for a functional gene network influencing the developing cerebellum and motor and auditory cortices. *American Journal of Medical Genetics Part A*. <https://doi.org/https://doi.org/10.1002/ajmg.a.62904>

Peter, B., Davis, J., Finestack, L., Stoel-Gammon, C., VanDam, M., **Bruce, L.**, et al. (2022). Translating principles of precision medicine into speech-language pathology: Clinical trial of a proactive speech and language intervention for infants with classic galactosemia. *Human Genetics and Genomics Advances*, 3(3), 1-12.

Peter, B., Davis, J., Cotter, S., Belter, A., Williams, E., Stumpf, M., **et al.** (2021). Toward preventing speech and language disorders of known genetic origin: First post-intervention results of Babble Boot Camp in children with classic galactosemia. *American Journal of Speech Language Pathology*, 2616-2634. doi: 10.1044/2021_AJSLP-21-00098

Peter, B., **Bruce, L.**, Raaz, C., Williams, E., Pfeiffer, A., & Rogalsky, C. (2020). Comparing global motor characteristics in children and adults with childhood apraxia of speech to a cerebellar stroke patient: evidence for the cerebellar hypothesis in a developmental motor speech disorder. *Clinical Linguistics & Phonetics*, 1-25. doi:10.1080/02699206.2020.1861103

Peter, B., Potter, N., Davis, J., Donenfeld-Peled, I., Finestack, L., Stoel-Gammon, C., Lien, K., **Bruce, L.**, Vose, C., Eng, L, Yokoyama, H., Olds, D., & VanDam, M. (2020). Toward a paradigm shift from deficit-based to proactive speech and language treatment: Randomized pilot trial of the Babble Boot Camp in infants with classic galactosemia. *F1000*, 11 March 2019, doi.org/10.12688/f1000research.18062. <https://f1000research.com/articles/8-271>

Peter, B., Vose, C., **Bruce, L.**, & Ingram, D. (2019). Starting to talk at age 10 years: Lessons about the acquisition of English speech sounds in a rare case of severe congenital but remediated motor disease of genetic origin. *American Journal of Speech-Language Pathology*, 28(3), 1029-1038. doi:10.1044/2019_AJSLP-18-0156

Bruce, L., Lynde, S., Weinhold, J., & Peter, B. (2018). A team approach to response to intervention for speech sound errors in the school setting. *Perspectives of the ASHA Special Interest Groups*, 3(16), 110-119. doi:10.1044/persp3.SIG16.110, **Invited Publication**

PRESENTATIONS

Conference Presentations

Bruce, L., & Brown, J. (2021, Nov). Intensification Intensified: How Educational Intensification of SLPs was Heightened by the COVID-19 Pandemic. American Speech-Language-Hearing Association Convention, Online.

Bacon, C., **Bruce, L.**, Clark V., Dixon, M., Helms Tillery, K., & Ingram, K. (2021, Nov). Cultivating Critical Thinking and Interprofessional Learning Through Project ECHO. American Speech-Language-Hearing Association Convention, Online.

Bruce, L., & Brown, J. (2021, April 9). The Nature of Intensification within School Speech-Language Pathology. ASU Maternal Child Health Conference, Online.

Clark, V., Dixon, M., Bacon, C., Ingram, K., **Bruce, L.**, & Helms Tillery, K. (2021, March 25). All teach all learn: Connecting students, faculty, and community partners through Project ECHO. ASU Social Embeddedness Conference, Online.

Invited Presentations

Bruce, L., & Peter, B. (July 2022). Speech and Language Disorders: What's Genetics Got to Do with It? SLP Summit virtual conference, online.

Bruce, L. (Feb 2022-Aug 2022). Conceptualizing the International Phonetic Alphabet as a therapy tool. Embracing Expertise course series collaboration with Dr. Kelly Farquharson and Bright IQ: <https://www.bethebrightest.com/conferences/embracing-expertise-series>

Bruce, L. (Feb 2022). Adding RTI to your post-pandemic toolbox: Reflections on a team approach. Illinois Speech-Language-Hearing Association Convention, Online.

Bruce, L. (2019). Articulation toolbox: Research and strategies, a two-hour course presented for Therapy Rehab Services, paid presentation.

Bruce, L. (2018). Articulation toolbox: Research and strategies, a one-hour course presented at New Way Academy, Phoenix, AZ.

Invited Social Media Presentations

- Contributor to SLP Toolkit summer school course (2021, June). RTI/MTSS in the schools, Online.
- Panelist, (2020, June). Apraxia and Genetics. SLP Mommy of Apraxia, <https://slpmommyofapraxia.com>

- Interviewed on SLP Toolkit podcast hosted by Lisa Kathman and Sarah Bevier. (2019). Topic: “I was worried RTI would add to my caseload.”
- Facebook Host, (2019). Evidence-Based Practice Week 57: Response to intervention for speech sound disorders, “Clinical Research for SLPs” Facebook Group.

Conference Posters

Potter, N.L., Davis, J., Williams, D., **Bruce, L.**, Eng, L., Stoel-Gammon, C., Lien, K., VanDam, M., Vose, C., Peter, B. (2020, July 17-20). Babble Boot Camp: Can Early Intervention Prevent or Minimize Speech Disorders in Classic Galactosemia? Galactosemia Foundation Convention, Online.

Bruce, L., Eng, L., Cotter, S., Yokoyama, H., Schur, J., Donenfeld-Peled, I., & Peter, B. (2020, June 25-27). Turning knowledge of a genetic cause into preventive behavioral interventions: Proactive speech and language therapy for infants with classic galactosemia continues to show signs of effectiveness. Behavior Genetics Association Annual Meeting, Online.

Bruce, L., & Peter, B. (2019, November). Expanding the BCL11A story: Two cases of genetic mutation impacting speech & language. American Speech-Language-Hearing Association (ASHA) Convention, Orlando, FL.

Bruce, L., & Brown, J. (2019, November). The nature of intensification within school-based speech-language pathology. ASHA Convention, Orlando, FL.

Weinhold, J., & **Bruce, L.** (2019, November). Orofacial myofunctional disorder in children with & without speech sound errors. ASHA Convention, Orlando, FL.

Peter, B., & **Bruce, L.** (2019, October). Phenotypic similarities in one case with microdeletion and two cases with single nucleotide variants in BCL11A: Cerebellar expressions of motor speech disorders. American Society of Human Genetics, Houston, TX.

Peter, B., Potter, N., VanDam, M., Stoel-Gammon, C., Lien, K., Vose, C., **Bruce, L.**, & Eng, L. (2018, March). Babble boot camp: Preventing speech and language disorders in Infants with galactosmia. Art and Science of Health Promotion, San Diego, CA.

Bruce, L., Weinhold, J., & Peter, B. (2017, November). Evaluating an RTI model for late-8 speech sound disorders in the school setting. ASHA Convention, Los Angeles, CA.

MENTORSHIP

Barrett, The Honors College: Thesis

2022- Deb Pringle: Thesis Director

2022- Avani Tamhankar: Thesis Committee Member

2021-2022 Kaley Matthews: Thesis Committee Member
2020-2021 Sarah Conger: Thesis Committee Member
2019-2020 Emma Williams: Thesis Committee Member

Barrett, The Honors College: Honors Contracts

Spring 2021 Madilyn Pettijohn: SHS 465
Spring 2021 Jalen Jackson: SHS 465
Spring 2022 Adrienne Lood: SHS 465
Spring 2022 Lacey Whetten: SHS 465

SERVICE

University Service

2022-Present ASHA Continuing Education Administrator for College of Health Solutions
2020-Present Member, Clinical Education Efficacy and Services (CEES) Extension for
Community Healthcare Outcomes (ECHO)
2016-2019 ASU Graduate and Professional Student Association Travel Grant Reviewer

Professional Service

2020 Reviewer: Language, Speech, and Hearing Services in Schools

PROFESSIONAL DEVELOPMENT

MAY 2021 ASHA 2021 Teaching Symposium on Foundational CSD Science Courses