

BRIDGET M. WALSH
CURRICULUM VITAE

**DEPARTMENT OF COMMUNICATIVE SCIENCES AND DISORDERS
OYER SPEECH AND HEARING BUILDING • 1026 RED CEDAR ROAD
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EDUCATION

- Ph.D. 2007 Purdue University
Neuroscience and Speech, Language, and Hearing Sciences
Dissertation Title: Speech production in Parkinson's disease: Basic kinematic parameters and effects of increased linguistic demands on interarticulatory coordination
Advisor: Dr. Anne Smith
- M.S. 2000 Purdue University
Department of Audiology and Speech Sciences
Thesis Title: Development of oral motor control for speech: Evidence from upper lip, lower lip, and jaw
Advisor: Dr. Anne Smith
- B.S. 1995 Purdue University
Department of Audiology and Speech Sciences

PROFESSIONAL LICENSURE

- 2007-present American Speech, Language, and Hearing Association
-Certificate of Clinical Competency (CCC-SLP)

PROFESSIONAL EXPERIENCE

- 2018-present Assistant Professor, Communicative Sciences and Disorders, Michigan State University, East Lansing, MI
- 2011-2018 Research Scientist, Dept. Speech, Language, and Hearing Sciences, Purdue University, West Lafayette, IN
- 2010-2011 PRN Speech-Language Pathologist, Westminster, West Lafayette, IN
- 2010-2011 Course Instructor, Dept. Speech, Language, and Hearing Sciences, Purdue University, West Lafayette, IN
- 2007-2009 Post-Doctoral Research Associate, Speech Neurophysiology Laboratory, Purdue University, West Lafayette, IN

RESEARCH GRANTS AND AWARDS

- 2014-2018 Primary Investigator, “Central and peripheral dynamics of speech production in children who stutter” NIH/NIDCD (R03 DC013402)
- 2013-2018 Co-Investigator, “Physiological correlates of stuttering” NIH/NIDCD (PI: Anne Smith R01 DC00559)
- 2015 American Speech, Language, and Hearing Association Trailblazer Award for “Brain function and anatomy in children who stutter: Insights from pediatric neuroimaging studies” with co-presenters Soo-Eun Chang, Deryk Beal, and Jason Tourville
- 2013 Seed for Success Excellence in Research Award as Co-Investigator on “Physiological correlates of stuttering” NIH/NIDCD (R01 DC00559)
- 2011-2014 Co-Investigator, Reentry supplemental grant NIH/NIDCD (R01 DC00559)
- 2005-2007 Primary Investigator, “Language and motor processes in Parkinson’s disease” Parkinson’s Awareness Association of Central Indiana (201116)
- 2005-2007 Primary Investigator, Ruth L. Kirschstein National Research Predoctoral Award “Language and motor interactions in Parkinson’s disease” NIH/NIDCD (NRSA F31 DC007267)
- 2004-2005 Graduate student award for outstanding research from the Indiana Lions Club (67313533762)

PUBLICATIONS

- Walsh, B.** & Usler, U. (In press). Physiological correlates of fluent and stuttered speech production in preschool children who stutter. *Journal of Speech, Language, and Hearing Research*.
- Walsh, B.**, Smith, A., & Christ, S., & Weber, C. (2019). Sympathetic nervous system activity in preschoolers who stutter. *Frontiers in Neuroscience*. Advance online publication. doi.org/10.3389/fnhum.2019.00356
- Walsh, B.**, Usler, E., Bostian, A., Mohan, R., Gerwin, K., Brown, B., Weber, C., & Smith, A. (2018). What are predictors for persistence in childhood stuttering? *Seminars in Speech and Language*, 39, 299-312. doi: 10.1055/s-0038-1667159.
- Usler E. & **Walsh B.** (2018). The influence of syntactic complexity on speech production in school-aged children who stutter. *Journal of Speech, Language, and Hearing Research*, 61, 2157-2167. doi: 10.1044/2018_JSLHR-S-17-0435
- Hosseini, R., **Walsh, B.**, Tian, F., & Shouyi, W. (2018). An fNIRS-based feature learning and classification framework to distinguish hemodynamic patterns in children who stutter. *IEEE Transactions on Neural Systems & Rehabilitation Engineering*, 1-1. doi:10.1109/TNSRE.2018.2829083
- Walsh, B.**, Tian, F., Tourville, J.A., Yücel, M.A., Kuczek, T., Bostian, A. (2017). Hemodynamics of speech production: An fNIRS investigation of children who stutter. *Scientific Reports*, 7.
- Walsh, B.**, Mettel, K., & Smith, A. (2015). Speech motor planning and execution deficits in early childhood stuttering. *Journal of Neurodevelopmental Disorders*, 7, 27.
- Walsh, B.** & Smith, A. (2013). Oral EMG activation patterns for speech are similar in preschoolers who do and do not stutter. *Journal of Speech, Language, and Hearing Research*, 56, 1441-1454.

- Walsh, B.** & Smith, A. (2012). Basic parameters of articulatory movements and acoustics in individuals with Parkinson's disease. *Movement Disorders*, 27, 843-850. [Featured Article].
- Walsh, B.** & Smith, A. (2011). Linguistic complexity, speech production, and comprehension in Parkinson's disease: Behavioral and physiological indices. *Journal of Speech, Language, and Hearing Research*, 54, 787-802.
- Smith, A., Sadagopan, N., **Walsh, B.**, & Weber-Fox, C. (2010). Increasing phonological complexity reveals heightened instability in inter-articulatory coordination in adults who stutter. *Journal of Fluency Disorders*, 35, 1-18.
- Walsh, B.**, Smith, A., & Weber-Fox, C. (2006). Short-term plasticity in children's speech motor systems. *Developmental Psychobiology*, 48, 660-674.
- Walsh, B.** & Smith, A. (2002). Articulatory movements in adolescents: Evidence for protracted development of speech motor processes. *Journal of Speech, Language, and Hearing Research*, 45, 1119-1133.

TEACHING EXPERIENCE

Spring 2020	Course Instructor CSD Grant Writing
2019	Course Instructor CSD 830 Fluency Disorders
2019	Course Instructor: CSD 865 Motor Speech Disorders
2018-present	Course Instructor: CSD 803 Research Methods
2017	Purdue University Course Instructor: SLHS 519 Evidence-Based Practice III
2016	Purdue University Course Instructor: SLHS 519 Evidence-Based Practice II
2013-2016	Purdue University Guest Lecturer: SLHS 529 Stuttering
2012-2013	Purdue University Guest Lecturer: SLHS 115 Introduction to Communicative Disorders
2010	Purdue University Course Instructor: SLHS 115 Introduction to Communicative Disorders
2002-2003	Purdue University Course Instructor: AUS 430 Speech-Language Disorders in Health Care Settings
2002	Purdue University Laboratory Instructor/Course Coordinator: AUS 302 Acoustics Bases of Speech and Hearing
2001	Purdue University Laboratory Instructor/Course Coordinator: AUS 502 Fundamentals of Speech Production and Perception

TEACHING AWARDS

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| 2003 | Inducted as an associate fellow of the Purdue University Teaching Academy |
| 2002 | Purdue University Graduate student Award for Outstanding Teaching |

LEADERSHIP AND SERVICE

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| 2019 | Program Committee Member of the Motor Speech Conference Santa Barbara, CA |
| 2019 | Proposal Reviewer, American Speech, Language, and Hearing Convention Program Committee (Fluency) |
| 2018 | Ad hoc Proposal Reviewer CAREER Perception, Action, and Cognition Program, NSF |
| 2018 | Reviewer, Students Preparing for Academic & Research Careers SPARC Award, American Speech, Language, and Hearing Association |
| 2018 | Proposal Reviewer, American Speech, Language, and Hearing Convention Program Committee (Fluency) |
| 2018 | Proposal Reviewer, One World, Many Voices: Science and Community Joint World Congress, Tokyo, Japan. |
| 2017 | Reviewer for the Grant Review and Reviewer Training Program (GRRT), American Speech, Language, and Hearing Association July 24-25 Rockville, MD. |
| 2016 | Proposal Reviewer, American Speech, Language, and Hearing Convention Program Committee (Fluency) |

CONFERENCE PRESENTATIONS AND INVITED TALKS

- Walsh, B.** (October 2019). Multifactorial dynamics of speech production in childhood stuttering. Invited presentation to the Speech and Hearing Science Department at the University of Illinois, Urbana-Champaign, IL
- Walsh, B.** (September 2019) Developmental trajectories to stuttering persistence and recovery. Presentation at the Great Lakes Stuttering Research Consortium East Lansing, MI
- Walsh, B.,** Hampton-Wray, M., Chang, S. E., (March 2019). Neuroimaging research examining the neural bases of childhood stuttering. Invited presentation at the annual Michigan Speech, Language, and Hearing Association East Lansing, MI.
- Walsh, B.,** Beal, D. (November 2018). Brain research in stuttering: How do recent advancements translate to clinical practice? Invited presentation at the annual meeting of the Speech, Language, and Hearing Association (ASHA), Boston, MA.
- Walsh, B.** (November 2018). Physiological and behavioral correlates of emotional arousal in preschoolers who stutter. Presentation at the annual meeting of the Speech, Language, and Hearing Association (ASHA), Boston, MA.

- Walsh, B.** (August 2018). Stuttering correlates at multiple levels of the nervous system. Presentation at the Upper Midwest Stuttering Research Conference, Michigan State University
- Walsh, B.** & Usler, E. (July 2018). Autonomic correlates of speech production in preschoolers who stutter. Poster presentation at the One World, Many Voices: Science and Community Joint World Congress, Tokyo, Japan.
- Walsh, B.,** Brown, B., & Lippett-Gerwin, K. (April 2018). New research directions in stuttering with intervention strategies and ideas for school-age children who stutter. Invited presentation at the annual Indiana Speech, Language, and Hearing Association Indianapolis, IN.
- Greenwell, T. & **Walsh, B.** (November 2017). Evidence based practice: A survey of practicing speech-language pathologists. Poster presentation at the annual meeting of the Speech, Language, and Hearing Association (ASHA), Los Angeles, CA.
- Walsh, B.** & Tian, F. T. (September 2017). Examining the neurophysiology of speech production in children who stutter with fNIRS. Presentation at the annual Oxford Dysfluency Conference, Oxford, England.
- Walsh, B.** & Smith, A. (September 2017). Physiological and behavioral indices of emotional processes in preschoolers who stutter. Presentation at the Oxford Dysfluency Conference, Oxford, England.
- Usler, E. & **Walsh, B.** (September 2017). The effects of syntactic complexity and sentence length on the speech motor control of school-age children who stutter. Presentation at the Oxford Dysfluency Conference, Oxford, England.
- Walsh, B.** (November 2016). Shedding light on Stuttering: An fNIRS study of speech production. Poster presentation at the annual meeting of the Speech, Language, and Hearing Association (ASHA), Philadelphia, PA.
- Walsh, B.,** Tian, F.T., Yücel, M.A. (October 2016). Hemodynamic profiles of speech production in children who stutter. Poster presentation at the biennial fNIRS conference, Paris, France.
- Chang, S.E., Beal, D., **Walsh, B.,** & Tourville, J.A. (November 2015). Brain function and anatomy in children who stutter: Insights from pediatric neuroimaging studies. Invited presentation at the annual meeting of the Speech, Language, and Hearing Association (ASHA), Denver, CO. [**Selected for ASHA's Trailblazer Award for forward-thinking, innovative, and transformational research*].
- Walsh, B.** (April 2014). Central dynamics of speech production in children who stutter. Presentation to the Department of Bioengineering at the University of Texas Arlington, Arlington, TX.
- Walsh, B.** (November 2013). Speech motor characteristics of early childhood stuttering. Presentation at the annual meeting of the Speech, Language, and Hearing Association (ASHA), Chicago, IL.
- Walsh, B.** (March 2012). Decreased EMG activity during disfluent speech and asymmetrical activation of lower lip: A study of preschoolers who stutter and their typically fluent peers. Presentation at the biennial Conference on Motor Speech, Santa Rosa, CA.

- Walsh, B.** (March 2008). Speech production in individuals with Parkinson's disease: Basic kinematic parameters and effects of increased linguistic demands on inter-articulatory coordination. Presentation at the biennial Conference on Motor Speech, Monterrey, CA.
- Walsh, B.,** Smith, A., & Weber-Fox, C. (November 2004). Motor learning in children's speech production. Poster presentation at the annual meeting of the American Speech, Language, and Hearing Association (ASHA), Philadelphia, PA.
- Smith, A., **Walsh, B.,** & Weber-Fox, C. (November 2004). Phonological complexity and speech motor performance in individuals who stutter. Poster presentation at the annual meeting of the American Speech, Language, and Hearing Association (ASHA), Philadelphia, PA.
- Walsh, B.,** Smith, A., & Weber-Fox, C. (March 2004). Motor learning occurs in children (but not young adults) in a novel non-word production task. Poster presentation at the Conference on Motor Speech Control and Disorders, Albuquerque, New Mexico.
- Huber, J.E., Ringel, R.L., **Walsh, B.,** Kahane, J., & Badylak, S. (November 2002). Tissue remodeling in dogs after modified and standard hemilaryngectomy. Presentation at the annual meeting of the American Speech, Language, and Hearing Association (ASHA), Atlanta, Georgia.
- Walsh, B.** & Smith, A. (November 2000). Development of oral motor control for speech. Poster presentation at the annual meeting of the American Speech, Language, and Hearing Association (ASHA), Washington, D.C.

DEPARTMENTAL AND OUTREACH PRESENTATIONS

- Walsh, B.** (February, 2019). Developmental trajectories to stuttering persistence and recovery. Presentation at the Cognitive Science Faculty Roundtable, Michigan State University.
- Walsh, B.** (April 2016). Shedding light on the speaking brain: An fNIRS study in children who do and do not stutter. Presentation at the Department of Speech, Language, and Hearing Sciences Colloquium, Purdue University.
- Walsh, B.** & Brown, B. (October, 2014). New directions in stuttering research with intervention strategies and ideas. Presentation at the Friends (The National Association for Young People Who Stutter) Conference, West Lafayette, IN.
- Walsh, B.** & Brown, B. (May, 2014). Stuck on Words: Why do some children continue to stutter and others recover? Presentation to the Speech-Language Pathology Division of Greater Lafayette Area Special Services, Lafayette, IN.
- Walsh, B.** (November, 2013). Speech motor performance in children who stutter. Presentation at the Department of Speech, Language, and Hearing Sciences Colloquium, Purdue University.
- Walsh, B.** (August, 2007). Speech processes in individuals with Parkinson's disease. Presentation at the annual meeting of the Parkinson's Awareness Association of Central Indiana, Indianapolis, IN.
- Walsh, B.** (April, 2007). Speech processes in Parkinson's disease. Presentation at the annual meeting of the Purdue University Neuroscience Program.

- Walsh, B.** (March, 2005). Short-term changes in children's speech motor control. Presentation at the annual meeting of the Purdue University Neuroscience Program.
- Walsh, B.** (March, 2004). Kinematic analyses of speech motor control. Presentation at the annual meeting of the Purdue University Neuroscience Program. [*Selected for Best Student Presentation award].
- Walsh, B. & Gutek, J.** (October, 2004). Lee Silverman Voice Treatment in Multiple Sclerosis: A case study. Invited research talk at the Multiple Sclerosis Support Group, Lafayette, IN.
- Walsh, B.,** (October, 2003). Surviving your first ASHA convention. Presentation at the Purdue University NSSHLA chapter meeting.
- Walsh, B.** (October, 2002). Developmental changes in speech motor control from late childhood through adolescence. Presentation at the Department of Audiology and Speech Sciences Colloquium, Purdue University.

RESEARCH MENTORSHIP

2019	Masters Committee Chair	Alexis Novelli	CSD	MSU
2018	American Speech, Language, and Hearing Association appointed Researcher Partner in the Promoting the Next Generation of Researchers (PROGENY) program at the annual meeting of ASHA in Boston, MA.			
2018-	Masters Committee Member	Julia Andary	CSD	MSU
2018-2019	Doctoral Committee Member	Yiling Liu	CSD	MSU
2018-2019	Doctoral Committee Member	Gregory Spray	CSD	MSU
2014-2017	Doctoral Committee Member	Evan Usler	SLHS	Purdue University
2015-2017	Masters Committee Member	Anna Bostian	SLHS	Purdue University
2014-2016	Masters Committee Member	Katelyn Lippitt	SLHS	Purdue University
2016	American Speech, Language, and Hearing Association appointed Researcher Partner in the Promoting the Next Generation of Researchers (PROGENY) program at the annual meeting of ASHA in Philadelphia, PA.			

PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

Fellow with the Center for Research in Autism, Intellectual, and Other Neurodevelopmental Disabilities at Michigan State University

Member of the American Speech, Language, and Hearing Association

Special Interest Division: Fluency and Fluency Disorders

Member of the Society for functional Near Infrared Spectroscopy

Member of the American Society for Laser, Medicine, & Surgery