

JONATHAN PRESTON, PhD CCC-SLP

CURRENT POSITIONS

Assistant Professor, Tenure Track Aug 2014-present

Department of Communication Sciences & Disorders
Syracuse University
621 Skytop, Suite 1200, Syracuse, NY 13244
(315) 443-3143/ jopresto@syr.edu
[Faculty Profile](#) [Lab Website](#)

Senior Scientist Aug 2010-present

Haskins Laboratories
300 George St, Suite 900, New Haven, CT 06511

PRIOR EXPERIENCE

Assistant Professor, Tenure Track Aug 2010- May 2014

- Department of Communication Disorders, Southern Connecticut State University, New Haven, CT

Postdoctoral Fellow, Haskins Laboratories, New Haven, CT Sep 2009- Aug 2010

- Trained with Drs. Kenneth Pugh and Carol Fowler, focusing on neural and psychological bases of reading and reading disability, and the connections between spoken and written language
- Gained exposure to neuroimaging techniques including functional MRI, EEG, and NIRS

EDUCATION/TRAINING

Postdoctoral Fellow, Haskins Laboratories, New Haven, CT Sept 2008 - Aug 2010

PhD, Speech-Language Pathology, Syracuse University Aug 2008

- Dissertation topic: Phonological processing and speech production in preschoolers with speech sound disorders

M.S., Speech–Language Pathology, Syracuse University, Syracuse, NY May 2002

B.S., Speech & Hearing, *Summa Cum Laude*, Elmira College, Elmira, NY June 2000

LICENSURE/CERTIFICATION

- ASHA Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP)
- New York State Licensure in Speech-Language Pathology
- New York State Permanent Teaching Certification: Speech and Hearing Handicapped

PUBLICATIONS

Note: Graduate Student* Undergraduate Student^

JONATHAN PRESTON, PhD CCC-SLP

- Preston, J.L.**, Leece, M.C., & Maas, E. (in press). Motor-based treatment with and without ultrasound feedback for residual speech sound errors. *International Journal of Language & Communication Disorders*. NIHMSID 771284
- Collisson, B. A., Graham, S. A., **Preston, J. L.**, Rose, M. S., McDonald, S., & Tough, S. (2016). Risk and protective factors for late talking: An epidemiologic investigation. *The Journal of Pediatrics*, 172, 168-174.e161. doi:http://dx.doi.org/10.1016/j.jpeds.2016.02.020
- Heng*, Q., McCabe, P., Clarke, J., & **Preston, J. L.** (2016). Using ultrasound visual feedback to remediate velar fronting in preschool children: A pilot study. *Clinical Linguistics and Phonetics*, 30(3-5), 382-397. doi:10.3109/02699206.2015.1120345. ([PMC4826297](#))
- Preston, J. L.**, Maas, E., Whittle, J., Leece, M. C., & McCabe, P. (2016). Limited acquisition and generalisation of rhotics with ultrasound visual feedback in childhood apraxia. *Clinical Linguistics & Phonetics*, 30(3-5), 363-381. doi:10.3109/02699206.2015.1052563 ([PMC4740254](#))
- Preston, J.L.**, Molfese, P.J., Frost, S.J., Mencl, W.E., Fulbright, R.K., Hoeft, F., Landi, N., Shankweiler, D., & Pugh, K.R. (2016). Print-speech convergence predicts future reading outcomes in early readers. *Psychological Science*, 27(1), 75-84. doi: 10.1177/0956797615611921 ([PMC4713346](#))
- Overby, M. S., Masterson, J. J., & **Preston, J. L.** (2015). Preliteracy speech sound production skill and linguistic characteristics of grade 3 spellings: A study using the Templin archive. *Journal of Speech, Language, and Hearing Research*, 58(6), 1654-1669. doi:10.1044/2015_JSLHR-S-14-0276
- Preston, J.L.**, Irwin, J.R. & Turcios*, J. (2015) Perception of speech sounds in school-age children with speech sound disorders. *Seminars in Speech and Language*, 36 (4), 224-233. doi 10.1055/s-0035-1562906 ([PMC4665633](#))
- Irwin, J., **Preston, J.**, Brancazio, L., D'Angelo, M., & Turcios*, J. (2015). Development of an audiovisual speech perception app for children with autism spectrum disorders. *Clinical Linguistics & Phonetics*, 29(1), 76-83. doi:10.3109/02699206.2014.966395 ([PMC4386063](#))
- Preston, J.L.**, McCabe, P., Rivera-Campos*, A., Whittle, J.L., Landry*, E., & Maas, E. (2014). Ultrasound visual feedback treatment and practice variability for residual speech sound errors. *Journal of Speech, Language, and Hearing Research*, 57(6), 2102-2115. doi: 10.1044/2014_JSLHR-S-14-0031 ([PMC4272648](#))
- Diehl, J.J., Frost, S.J., Sherman, G., Mencl, W.E., Kurian, A., Molfese, P., Landi, N., **Preston, J.**, Soldan, A, Fulbright, R.K., Rueckl, J.G., Seidenberg, M.S., Hoeft, F. & Pugh, K. (2014). Neural correlates of language and non-language visuospatial processing in adolescents with reading disability. *NeuroImage*, 101, 653-666. doi: 10.1016/j.neuroimage.2014.07.029 ([PMC4167780](#))
- Preston, J.L.**, Molfese, P., Gumkowski, N., Sorcinelli^, A., Harwood*, V., Irwin, J. & Landi, N. (2014). Neurophysiology of speech differences in childhood apraxia of speech. *Developmental Neuropsychology*, 39(5), 385-403. doi: 10.1080/87565641.2014.939181 ([PMC4130155](#))
- Pugh, K.R., Frost, S.J., Rothman, D.L., Hoeft, F., Del Tufo, S.N., Mason, G.F., Molfese, P.J.,

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- Mencl, W.E., Grigorenko, W.E., Landi, N., **Preston, J.L.**, Jacobsen, L., Seidenberg, M.S., & Fulbright, R.K. (2014). Glutamate and choline levels discriminate typically from atypically developing beginning readers. *Journal of Neuroscience* 34(11), 4082-4089. ([PMC3951703](#))
- Shadle, C. H., Koenig, L. L., & **Preston, J. L.** (2014). Acoustic characterization of /s/ spectra of adolescents: Moving beyond moments. *Proceedings of Meetings on Acoustics*, 12(1), 060006. <http://dx.doi.org/10.1121/1.4862854>
- Preston, J. L.**, Molfese, P. J., Mencl, W. E., Frost, S. J., Hoeft, F., Fulbright, R. K., . . . Pugh, K. R. (2014). Structural brain differences in school-age children with residual speech sound errors. *Brain and Language*, 128(1), 25-33. doi: <http://dx.doi.org/10.1016/j.bandl.2013.11.001> ([PMC3926206](#))
- Preston, J. L.**, & Leaman, M. (2014). Ultrasound visual feedback for acquired apraxia of speech: A case report. *Aphasiology*, 28(3), 278-295. doi: 10.1080/02687038.2013.852901 (no PMID)
- Preston, J. L.**, Brick*, N., & Landi, N. (2013). Ultrasound biofeedback treatment for persisting childhood apraxia of speech. *American Journal of Speech-Language Pathology*, 22(4), 627-643. doi: 10.1044/1058-0360(2013/12-0139) (no PMID)
- Koenig, L., Shadle, C., **Preston, J.L.**, Mooshammer, T. (2013). Towards improved spectral measures of /s/: Results from adolescents. *Journal of Speech, Language, and Hearing Research*, 56(4), 1175-1189. doi: 10.1044/1092-4388(2012/12-0038) ([PMC4457315](#))
- Preston, J.L.**, Hull*, M., & Edwards, M.L. (2013). Preschool speech error patterns predict articulation and phonological awareness outcomes in children with histories of speech sound disorders. *American Journal of Speech-Language Pathology*, 22(2), 173-184. doi: 10.1044/1058-0360(2012/12-0022) ([PMC3586759](#))
- Prieve, B.A., Vander Werff, K., **Preston, J.L.** & Georgantas, L. (2013). Identification of conductive hearing loss in young infants using tympanometry and wideband reflectance. *Ear and Hearing*, 34(2), 168-178. doi: 10.1097/AUD.0b013e31826fe611
- Landi, N., Frost, S.J., Mencl, E., **Preston, J.L.**, Jacobsen, L., Lee, M., Yrigollen, C., Pugh, K.R., & Grigorenko, E. (2013). The COMT Val/Met polymorphism is associated with reading related skills and consistent patterns of functional neural activation. *Developmental Science*, 16, 13-23. doi: 10.1111/j.1467-7687.2012.01180.x ([PMC3655431](#))
- Pugh, K. R., Landi, N., **Preston, J. L.**, Mencl, W. E., Austin, A. C., Sibley, D., Fulbright, R.K., Seidenberg, M. S., Grigorenko, E. & Constable, R. T. (2013). The relationship between phonological and auditory processing and brain organization in beginning readers. *Brain and Language*, 125(2), 173-183. doi: 10.1016/j.bandl.2012.04.004 ([PMC3417084](#))
- Preston, J.L.**, Felsenfeld, S., Frost, S.J., Mencl, W.E., Fulbright, R.K., Grigorenko, E.L., Landi, N., Seki, A., Pugh, K.R. (2012). Functional brain activation differences in school-age children with speech sound errors: Speech and print processing. *Journal of Speech, Language and Hearing Research*, 55(4), 1068-1082. doi: 10.1044/1092-4388(2011/11-0056) ([PMC3427927](#))
- Shadle, C., Koenig, L., & **Preston, J.** (2012, Oct). Sensitivity of acoustic parameters of /s/ in adolescents. *Journal of the Acoustic Society of America*, 132(3), 2091.

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- Preston, J.L.** & Seki, A. (2011). Identifying residual speech sound disorders in bilingual children: A Japanese-English case study. *American Journal of Speech-Language Pathology*, 20 (2), 73-85. doi: 73-85. doi:10.1044/1058-0360(2011/10-0057) ([PMC3431209](#))
- Preston, J.L.** & Koenig, L. (2011). Phonetic variability in residual speech sound disorders: Exploration of subtypes. *Topics in Language Disorders*, 31 (2), 168-184. ([PMC3476944](#)) (Invited submission)
- Preston, J. L.**, Ramsdell, H. L., Oller, D. K., Edwards, M. L., & Tobin*, S. J. (2011). Developing a weighted measure of speech sound accuracy. *Journal of Speech, Language and Hearing Research*, 54, 1-18. doi:10.1044/1092-4388(2010/10-0030) ([PMC3003752](#))
- Preston, J. L.**, Frost, S. J., Mencl, W. E., Fulbright, R. K., Landi, N., Grigorenko, E., Jacobsen, L. & Pugh, K.R. (2010). Early and late talkers: school-age language, literacy and neurolinguistic differences. *Brain*, 133(8), 2185-2195. doi: 10.1093/brain/awq163 ([PMC3139938](#))
- Preston, J.L** & Edwards, M.L (2010). Phonological awareness and types of sound errors in preschoolers with speech sound disorders. *Journal of Speech, Language and Hearing Research*, 53, 44-60. doi:10.1044/1092-4388(2009/09-0021) ([PMC2845283](#))
- Preston, J.L.** & Edwards, M.L. (2009). Speed and accuracy of rapid speech output by adolescents with residual speech sound errors including rhotics. *Clinical Linguistics and Phonetics*, 23(4), 301-318. doi:10.1080/02699200802680833
- Prieve, B., Hancur-Bucci, K. & **Preston, J.L.** (2009). Changes in transient-evoked otoacoustic emissions in the first month of life. *Ear and Hearing* 30 (3), 330-339. doi: 10.1097/AUD.0b013e31819c4000
- Preston, J.L.** & Edwards, M.L. (2007). Phonological processing skills of adolescents with residual speech sound errors. *Language, Speech, and Hearing Services in Schools*, 38, 297-308. doi:10.1044/0161-1461(2007/032)

Book Chapters:

- Kurian*, A., **Preston, J.**, Frost, S.J., Landi, N., Mencl, W.E., Molfese, P., Fulbright, R.K., Rueckl, J.G., & Pugh, K.R. (forthcoming). The neurocognitive basis of language in reading disability: More than just a phonological deficit. In G. Eden (Ed.), *The Wiley Handbook on the Cognitive Neuroscience of Developmental Dyslexia*. United Kingdom: John Wiley & Sons, Ltd.
- Pugh, K. R., Frost, S.J., Landi, N., **Preston, J.L.**, Mencl, W.E. & Rueckl, J.G. (2013). Neuroimaging studies of reading disabilities: Toward brain-based learning models. In Miller, B., Cutting, L. & McCardle, P. (Eds). *Unraveling Reading Comprehension: Behavioral, Neurobiological, & Genetic Components* (pp. 164-175). Baltimore: Brookes Publishing.
- Preston, J. L.** (2010). Speech and literacy: The connection and the relevance to clinical populations. In A. E. Harrison (Ed.). *Speech Disorders: Causes, Treatments, and Social Effects* (pp. 43-73): New York: Nova Science Publishers, Inc.

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Doctoral Dissertation:

Preston, J. L. (2008). *Phonological processing and speech production in preschoolers with speech sound disorders*. Unpublished doctoral dissertation, Syracuse University, Syracuse, NY.

- Awarded Syracuse University College of Arts & Sciences Doctoral Dissertation Prize
- Dissertation advisor: Dr. Mary Louise Edwards

Publications Under Review/Revision:

Sjolie*, G., Leece, M.C., & **Preston, J.L.** (submitted). Acquisition, retention, and generalization of rhotics with and without ultrasound visual feedback. *Journal of Communication Disorders*

Harwood*, V., **Preston, J.L.**, Grela, B., Roy, D., Harold, O., Turcios, J., Andrada, K., & Landi, N. (submitted) Electrophysiology of perception and processing of phonological information as indices of toddlers' language performance. *Journal of Speech, Language & Hearing Research*.

Preston, J.L., McAllister Byun, T., Boyce, S.E., Hamilton*, S., Tiede, M., Phillips, E., Rivera-Campos*, A. & Whalen, D.H. (submitted). Ultrasound images of the tongue: Applications for assessment and remediation of speech sound errors. *Journal of Visualized Experiments*.

Preston, J.L., Leece, M.C. & Maas, E. (submitted). Intensive treatment with ultrasound visual feedback for speech sound errors in childhood apraxia. *Frontiers in Human Neuroscience*.

ONGOING RESEARCH SUPPORT

Improving clinical speech remediation with ultrasound technology R01DC013668

PI: D. Whalen

Role: Co-investigator/PI of subcontract

1 Jul 2014 - 30 Jun 2019

Ultrasound biofeedback for therapy-resistant speech sound disorders in children

R03DC013152

Role: PI

27 Sep 2013 - 31 Aug 2016

Neurobiological signatures of perception and imitation of AV speech in children with Autism R15DC013864-01

J. Irwin, PI

Role: Co-investigator

1 July 2014 - 30 June 2017

The Nature of the Speech Code and Reading 5P01HD001994

J. Reuckl; PI, K. Pugh Project Leader

1 July 2012 – 30 June 2017

Project 1: The neurobiological foundations of typical and atypical literacy acquisition

Role: Co-Investigator

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COMPLETED RESEARCH SUPPORT

A pilot randomized control trial comparing ultrasound biofeedback treatment with rapid syllable transition training (ReST) in children with CAS

Childhood Apraxia of Speech Association of North America

P. McCabe, PI

1 Jan 2015 - 28 Feb 2016

Role: Co-investigator

Neurobiological predictors of spoken and written language learning R01HD065794-01

K. Pugh, PI

1 Apr 2011 – 31 Mar 2016

Role: Co-investigator

Neurobiological signatures of audiovisual speech perception in children with ASD

R21DC011342

J. Irwin, PI

1 July 2011 – 30 June 2013

Role: Co-investigator

Training Audiovisual Integration of Spoken Language in Children with Autism Spectrum Disorders

Connecticut State University/AAUP Research Grant

1 July 2012 – 30 June 2013

Role: co-PI

Language and Early Assessment Research Network (LEARN)

Private Donation to Haskins Labs

31 Mar 2011 - 30 Sept, 2013

Role: Director

Risk Factors for early language delay. Alberta Center for Child, Family, and Community Research

S. Tough & B. Collisson, PIs

1 March 2012 – 1 March 2014

Role: Collaborator

Biofeedback training for children with persisting CAS: Articulatory and neural changes

Childhood Apraxia of Speech Association of North America

31 Aug 2011 - 31 Aug 2012

Role: PI

(\$25,000 direct costs)

Goals: (1) To obtain evidence of the efficacy of a biofeedback approach to improving phonetic accuracy and consistency in school-age children with Childhood Apraxia of Speech. (2) To explore how changes in the EEG signal associated with the motor planning phase of articulation change following treatment.

Understanding and Treating Articulation Disorders Using Biofeedback

Connecticut State University/AAUP grant

1 Aug 2011 - 30 June 2012

Role: PI

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PreK RTI in CT: Building Teacher Knowledge About Language and Literacy for Dual Language Learners

Tremaine Foundation

M. Gillis, PI

1 Sept 2010 - 31 Dec 2011

Role: Methodological Consultant

Postdoctoral Fellows in Reading Research T32HD007548

C. Fowler, PI

1 Sep 2008 - 20 Aug 2010

Role: Postdoctoral fellow

Preliminary Investigation of a Weighted Measure of Speech Sound Accuracy

American Speech-Language-Hearing Foundation, Student Research Grant in Early Childhood

Language Development; J. Preston, PI

Nov 2007- Dec 2008

Role: Principle Investigator

(\$2,000)

PRESENTATIONS

Note: Graduate Student* Undergraduate Student^

McCabe, P., & **Preston, J.L.** (2016, July). *Comparing treatments. An RCT contrasting Ultrasound and ReST therapy for CAS.* Presented at the Childhood Apraxia of Speech Association of North America Annual Convention, Itasca, IL.

Preston, J.L. & Hogan, T. (2016, Jun). *Developing a 5-Year Research Plan.* Invited presentation for the American Speech-Language-Hearing Association Pathways Leadership Program, Rockville, MD.

Preston, J.L., & Leece, M. (2016, May). *Speech and language bases of literacy.* Invited workshop for the Syracuse Reading League, Syracuse, NY

McCabe, P., **Preston, J.L.** & Evans, P. (2016, May). *Ultrasound or ReST? Which treatment is better for older children with childhood apraxia of speech. A randomised control trial.* Poster presented at the Speech Pathology Australia National Conference, Perth, Australia.

Preston, J.L. (2016, Jan). *Motor-based treatment with and without ultrasound biofeedback for speech sound errors.* Invited presentation for the University of Sydney School of Health Sciences, Sydney, Australia.

Preston, J.L. (2015, Dec). *Training SLPs to work with at-risk, disadvantaged children with atypical development.* Invited presentation for the Haskins Global Summit on Early Development, Health, and Learning Among At-Risk Children, New Haven, CT.

Harwood*, V., **Preston, J.L.**, & Grela, B. (2015, Nov) *Electrophysiological correlates of speech perception in young children: Associations among ERP, nonword repetition and language.* Seminar presented at the American Speech-Language-Hearing Association Annual Convention

Sjolie*, G., Leece, M.C., & **Preston, J.L.** (2015, Nov) *Effects of ultrasound visual feedback on generalization, retention, and acquisition in speech therapy for rhotics.* Poster presented at

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the American Speech-Language-Hearing Association Annual Convention, Denver, CO.

- Preston, J.L.** McAllister Byun, T., Hitchcock, E., Rusewicz, H., Leece, M., Lee, S. & Boyce, S. (2015, Nov). *Ultrasound biofeedback for speech sound disorders: Hands-on clinical training*. Invited Short Course for the American Speech-Language-Hearing Association Annual Convention, Denver, CO.
- Preston, J.L.** (2015, Oct). *Motor-based treatments with ultrasound visual feedback for children with residual speech sound errors*. Presented at the University of Buffalo Communication Sciences & Disorders colloquium, Buffalo, NY.
- Collisson, B. A., Graham, S. **Preston, J.L.**, Rose, S., McDonald, S., Tough, S. (2015, Oct). *Risk and protective factors for late talking: An epidemiological study*. Paper presented at the Cognitive Development Society, Columbus, OH.
- Preston, J.L.**, McCabe, P., Tiede, M. & Whalen, D. (2015, Jun) *Tongue shape complexity of correct and distorted rhotics in school-age children*. Poster presented at the International Child Phonology Conference, St. John's, Newfoundland, Canada.
- Preston, J.L.** (2015, Apr). *Intervention for residual speech sound disorders*. Workshop presented for the Central New York Speech-Language-Hearing Association, Syracuse, NY.
- Preston, J.L.** & Leece, M. (2015, Apr). *Assessing and treating CAS and other speech sound disorders with ultrasound technology*. Seminar presented at the 2015 New York State Speech-Language-Hearing Association Annual Convention, Rochester, NY.
- Preston, J.L.** (2015, Mar). *Current Perspectives on Assessment and Treatment of Childhood Apraxia and other Speech Sound Disorders*. Invited presentation for the Duquesne University symposium, Pittsburgh, PA.
- Hodson, B., Gibbon, F., Lee, A., **Preston, J.**, Baker, E. & McCauley, R (2014, Nov). *Key elements in three speech sound disorders interventions: Electropalatography, cycles, and ultrasound biofeedback*. Invited seminar for the American Speech Language Hearing Association Annual Convention, Orlando, FL.
- Irwin, J., Brancazio, L., Turcios*, J., Gumkowski, N., & **Preston, J.** (2014, Nov). *Seeing to hear? Gaze to speaking faces in children with autism spectrum disorders*. Paper presented at the Boston University on Language Development, Boston, MA.
- Preston, J.L.** (2014, Oct). *Treatment options for childhood apraxia of speech*. Workshop presented for the Syracuse University Communication Sciences & Disorders Fall Continuing Education series, Syracuse, NY.
- Preston, J.L.** (2014, Oct). *Assessment & treatment considerations for speech sound disorders and suspected childhood apraxia of speech*. Workshop presented for the Connecticut Birth-to-Three practitioners, North Haven, CT.
- Harwood*, V., **Preston, J.L.**, Grela, B., & Landi, N. (2014, June). *Electrophysiological correlates of speech perception in young children: Associations among ERP, nonword repetition and language*. Poster presented at the Symposium in Research in Child Language Disorders, Madison, WI.
- McCabe, P., **Preston, J.**, Rivera*, A., & Whittle, J. (2014, May). *Residual speech errors: Therapy using ultrasound biofeedback*. Paper presented at the Speech Pathology Australia Annual National Conference, Melbourne, AU.
- Gumkowski, N., Molfese, P., Sorcinelli^, A., Harwood*, V., Irwin, J., Landi, N., & **Preston,**

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- J.L.** (2014, Apr). *Neurophysiological differences in childhood apraxia of speech*. Poster presented at the University of Connecticut Language Festival, Storrs, CT.
- Preston, J.L.** (2014, Apr). *Diagnostic and therapeutic considerations for CAS and residual articulation disorders*. Invited presentation for the Connecticut Speech Language Hearing Association Spring Conference, Cromwell, CT.
- Preston, J.L.,** Hitchcock, E., McAllister Byun, T., & Whittle, J. (2014, Jan). *Ultrasound biofeedback for speech sound disorders: Clinical training for SLPs*. Clinical workshop presented at Haskins Laboratories, New Haven, CT.
- Preston, J.L.** (2014, Jan). *Introduction to ultrasound biofeedback for childhood apraxia of speech*. Webinar presented for the Childhood Apraxia of Speech Association of North America.
- Koenig, L. & **Preston, J. L.** (2013, Dec). *Assessing whether loud speech affects vowel formant values in toddlers*. Poster presented at the 166th meeting of the Acoustical Society of America, San Francisco, CA.
- Arthur*, D., **Preston, J., L.** Grela, B., & Pugh, K.R., (2013, Nov). *Articulatory influences on phonological awareness: DDK revisited*. Poster presented at the American Speech-Language-Hearing Association annual conference, Chicago, IL.
- Preston, J. L.** (2013, Oct). *Hands-on clinical training in ultrasound biofeedback*. Clinical workshop presented at McGill University, Montreal, Quebec.
- Preston, J.L.** (2013, Oct). *Evidence-based update on ultrasound biofeedback for treating speech sound errors*. Presented at the Clinical Outreach Seminar Series for the 50th Anniversary of the School of Communication Sciences and Disorders at McGill University, Montreal, Quebec.
- Sorcinelli^, A., Irwin, J. Brancazio, L., Gumkowski, N. **Preston, J.** & Landi, N (2013, May). *Diminished audiovisual speech integration for children with autism spectrum disorders*. Poster presented at the 25th Association for Psychological Sciences Annual Convention, Washington, DC.
- Arthur*, D., **Preston, J.** & Pugh, K. (2013, Apr). *Articulatory influences on phonological awareness: Evidence from diadochokinesis*. Poster presented at the 2013 University of Connecticut Language Festival, Storrs, CT.
- Harwood*, V., **Preston, J.** Irwin, J. Grela, B. & Landi, N. (2013, Apr). *Electrophysiological correlates of speech perception in typically developing and late talking toddlers*. Poster presented at the Connecticut Speech and Hearing Association Spring Conference, Cromwell, CT.
- Carolan*, L., Robison*, J. **Preston, J.** & Irwin, J. (2013, Apr). *Seeing to hear? Patterns of gaze to speaking faces in children with autism spectrum disorders*. Poster presented at the Connecticut Speech and Hearing Association Spring Conference, Cromwell, CT.
- Preston, J.L.** (2013, Mar). *Ultrasound biofeedback for children with persisting childhood apraxia of speech*. Presented at the University of Connecticut Communication Disorders Colloquium, Storrs, CT.
- Preston, J.L.** (2013, Mar). *Therapy for school-age children with CAS*. Invited presentation for

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SpeechPathology.Com continuing education series, *Childhood Apraxia of Speech* (virtual conference).

- Preston, J.L.** (2013, Feb). *State of the art in CAS neuroimaging research*. Panelist at the 2013 CAS Research Symposium, Atlanta, GA
- Masterson, J. & **Preston, J.L.** (2012, Nov). *Spelling profiles in children with sound-system disorders*. Poster presented at the American Speech-Language-Hearing Association Annual Convention, Atlanta, GA.
- Preston, J.L.** & Brick, N. (2012, Nov). *Ultrasound biofeedback for residual speech sound disorders with CAS*. Poster presented at the American speech-Language-Hearing Association Annual Convention, Atlanta, GA.
- Lewis, B.A., **Preston, J.**, Redle, E., Vannest, J. & Shriberg, L. (2012, Nov). *Neuroimaging in pediatric speech disorders*. Invited presentation for the Motor Speech Disorders committee for the American Speech-Language-Hearing Association Annual Convention, Atlanta, GA.
- Shadle, C., Koenig, L., & **Preston, J.** (2012, Oct) *Sensitivity of acoustic parameters of /s/ in adolescents*. Presented at the Acoustic Society of America, Kansas City, MO.
- Preston, J.L.** (2012, Oct). *Treatment options for childhood apraxia of speech*. Invited presentation for the Connecticut Speech-Language-Hearing Association fall conference, Cromwell, CT.
- Preston, J.L.** (2012, Aug). *Ultrasound biofeedback for persisting speech sound disorders*. Haskins Laboratories Next Generation speaker series, New Haven, CT.
- Preston, J.L.** (2012, Jul). *Ultrasound biofeedback for persisting CAS*. Paper presented at the 2012 National Conference on Childhood Apraxia of Speech, Danvers, MA.
- Preston, J.L.** (2012, May). *Speech perception differences in children with speech sound disorders: Behavioral and neurobiological observations*. Invited lecture for the 2012 Alvin and Isabelle Liberman Memorial Workshop on Applied and Theoretical Issues in Speech Perception and Production, University of Connecticut, Storrs, CT.
- Preston, J.L.**, Brick*, N. & Phillips*, E. (2012, April). *Ultrasound biofeedback for residual speech sound disorders*. Poster presented at the Connecticut Speech-Language-Hearing Association spring conference, Cromwell, CT.
- Preston, J.L.** (2012, March). *Residual speech sound disorders: Linguistic and motoric considerations*. Invited presentation for *Speech-Sound Disorders in Childhood: Early Indicators and Interventions*, The Haskins Training Institutes, New Haven, CT.
- Preston, J.L.** (2012, March). *Speech and literacy: The connection and the relevance to clinical practice*. Invited presentation for SpeechPathology.Com continuing education series, *Speech Sound Disorders in Children* (virtual conference).
- Preston, J.L.**, Hull*, M. & Edwards, M.L. (2011). *Correlates of speech and literacy outcomes in preschoolers with SSD*. Poster session presented at the American Speech-Language-Hearing Association Annual Convention, San Diego, CA.
- Preston, J.L.** (2011). *Speech therapy services for articulation disorders and childhood apraxia of speech*. Learning Disabilities Association of Connecticut. Newton, CT.
- Shadle, C.H., Koenig, L.K. and **Preston, J.L.** (2011) *Acoustic characterization of /s/ spectra of adolescents: Moving beyond moments*. J. Acoust. Soc. Am. 129:4:2, 2595. Seattle, WA.

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- Prieve, B. A. & **Preston, J.L.** (2010). *Human developmental changes in TEOAE, DPOAE, and WBR*. Technical session presented at the American Speech-Language-Hearing Association Annual Convention, Philadelphia, PA.
- Arthur*, D., **Preston, J.L.**, & Pugh, K.R. (2010). *Rapid articulatory sequencing predicts unique variance in word reading*. Poster session presented at the American Speech-Language-Hearing Association Annual Convention, Philadelphia, PA.
- Preston, J.L.**, Felsenfeld, S., Frost, S.J., Mencl, W.E., Fulbright, R.K., Pugh, K.R., & Goen*, A. (2010). *An fMRI investigation of childhood speech sound disorders*. Technical session presented at the American Speech-Language-Hearing Association Annual Convention, Philadelphia, PA.
- Preston, J.L.** (2010). *Phonological processing and speech production in children with speech sound disorders*. Presented at the New York University Communicative Sciences & Disorders Colloquium, New York, NY.
- Preston, J.L.**, Ramsdell, H.R., Oller, D.K., Edwards, M.L. & Tobin*, S.J. (2010). *Developing and psychometrically investigating a weighted measure of speech sound accuracy*. Paper presented at the International Child Phonology Conference, Memphis, TN.
- Preston, J. L.**, & Edwards, M.L. (2009). *Phonological awareness & speech production accuracy in children with SSDs*. Poster presented at the American Speech-Language-Hearing Association Annual Convention, New Orleans, LA.
- Preston, J. L.**, & Edwards, M.L. (2009). *Speech sound disorders: Red flags for literacy problems*. Paper presented at the American Speech-Language-Hearing Association Annual Convention, New Orleans, LA.
- Edwards, M.L., & **Preston, J. L.** (2009). *Assessing phonological awareness in children with speech sound disorders*. Paper presented at the American Speech-Language-Hearing Association Annual Convention, New Orleans, LA.
- Koenig, L. L., & **Preston, J. L.** (2009). *Context-related variability in adolescents' misarticulated and typically produced /s/*. Poster presented at the Acoustical Society of America, Portland, OR.
- Preston, J.L.**, Ramsdell, H. & Oller, D.K. (2008). *Preliminary investigation of a weighted measure of speech sound accuracy*. Poster presented at the American Speech-Language-Hearing Association Annual Convention, Chicago, IL.
- Preston, J.L.** & Edwards, M.L. (2007). *Phonological output of adolescents on three repetition tasks*. Technical session at the ASHA Convention, Boston, MA.
- Edwards, M.L. & **Preston, J.L.** (2007). *Phonological disorders, phonological awareness, and literacy: An update for SLPs*. Presented at the New York State Speech-Language-Hearing Association Annual Convention, Buffalo, NY.
- Edwards, M.L. & **Preston, J.L.** (2007). *Phonological processing abilities of children with speech sound disorders*. Presented at the Linguistics Studies Colloquium, Syracuse, NY.
- Preston, J.L.** & Edwards, M.L. (2006). *A cross-section in the phonetic sciences: Diadochokinetic skills of adolescents with residual speech sound errors*. Poster presented at the American Speech-Language-Hearing Association Annual Convention, Miami, FL.
- Preston, J.L.** & Edwards, M.L. (2006). *Phonological processing skills of adolescents with*

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residual speech sound errors. Poster presented at the American Speech-Language-Hearing Association Annual Convention, Miami, FL.

Preston, J.L. & Edwards, M.L. (2006). *Rapid naming abilities of adolescents with residual speech sound errors*. Poster presented at the American Speech-Language-Hearing Association Annual Convention, Miami, FL.

TEACHING EXPERIENCE

Syracuse University

Clinical Phonology	Fall 2014, 2015
Articulation Disorders	Spring 2016
Fundamentals of Speech Science	Spring 2008
Introduction to Communication Sciences and Disorders	Fall 2007

Southern Connecticut State University

Speech Science	Spring 2011, 2013, 2014
Introduction to Developmental Communication Disorders	Spring 2011
Phonological Disorders	Summer 2010-2013, Fall 2010-2013
Anatomy & Physiology of the Speech Mechanism	Fall 2010-13, Spring 2012-14

RESEARCH SUPERVISION

Masters Thesis Supervision:

- Sjolie, G. (2015). Effects of ultrasound as visual feedback of the tongue on generalization, retention, and acquisition in /r/ speech therapy. Masters thesis, Syracuse University, Syracuse, NY.
- Brick, N*. (2013). Speech and phonological awareness changes in children during ultrasound biofeedback training. Unpublished masters thesis, Southern Connecticut State University, New Haven, CT
 - *Awarded SCSU Research Fellowship to complete this project

Doctoral Exam & Dissertation Committees:

- Harwood, V., University of Connecticut Department of Communication Disorders
 - Member, Qualifying Exam Committee 2012
 - Member, Doctoral Dissertation Committee 2012-2015. *Electrophysiological Correlates of Speech Perception in Young Children: Associations among ERP, Nonword Repetition and Language*
- Hosbach, C.J. Syracuse University Department of Communication Sciences & Disorders.
 - Member, Qualifying exam committee member, 2015
 - Member, Dissertation proposal committee member, 2015

Undergraduate Honors Thesis:

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- Committee Member, Bianca Lucatino, Southern Connecticut State University, Communication Disorders, 2011
- Reader, Elizabeth Randazzo, Southern Connecticut State University, Psychology, 2012
- Reader, Andrea Sorcinelli, Southern Connecticut State University, Psychology, 2012
- Committee Member, Mary Mohyde, Southern Connecticut State University, Communication Disorders, 2013
- Advisor, Laura Obrien, Southern Connecticut State University, Communication Disorders, 2014

CLINICAL TRANSLATION

- Ultrasound biofeedback now listed in [ASHA's "Practice Portal,"](#) a guide for clinicians on evidence-based approaches to intervention
- A video of an ultrasound biofeedback therapy session from my NIH supported project has been accepted at MasterClinician.org, a website that demonstrates assessment and treatment strategies in speech-language pathology.

CLINICAL SUPERVISION

Communication Disorders Clinic, Southern Connecticut State University, New Haven, CT 9/11-4/14
Gebbie Speech-Language-Hearing Clinic, Syracuse University, Syracuse, NY 5/05-8/05

SERVICE

Syracuse University

- Program Coordinator, M.S., Speech-Language Pathology NY Teacher Certification 2015-present
- Member, CSD Curriculum Committee 2015-present
- Member, CSD Graduate Admissions Committee 2014-present
- Member, Syracuse University Unit for Preparing School Professionals: Assessment Council (for Council of Accreditation of Educator Preparation [CAEP])

Southern Connecticut State University

- Health and Human Services Continuing Education Committee 2010-2014
- University Grants Review Committee 2011-2012
- Intellectual Property Committee 2012-2014
- NSSLHA Advisor 2011-2014
- Communication Disorders Scholarship Committee Chair 2011-2014
- Faculty Search Committee 2011-2014
- Graduate Student Affairs Committee Representative 2012
- Departmental Evaluation Committee 2012
- Research & Scholarship Advisory Committee 2013-2014

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Haskins Laboratories

- Committee for the Birth-to-Five Initiative 2010-2012
- Strategic Planning Committee 2014

Syracuse University (Doctoral Student Representative)

- Faculty Three-Year Review Committee for Dr. Kathy Vander Werff 2007
- Faculty Search Committee 2005-2006

Professional Service

- **Grant reviews**
 - American Speech-Language Hearing Foundation Grant Review & Reviewer Training 7/14
 - National Science Foundation Ad Hoc Reviewer 2/16
 - Childhood Apraxia of Speech Association of North America Research Selection Committee (Chair, 2013; Committee Member, 2015) 2013-15
- ASHA Annual Convention Speech Sound Disorders in Children Topic Committee
 - Topic Chair, 2016
 - Committee Member 2009, 2014, 2015
- ASHA Pathways Leadership Program: Served as mentor for PhD student 2016
- Co-editor, special issue of *Seminars in Speech & Language* 2014-15
- Expert reviewer for *Children's Speech: An Evidence Based Practice Approach to Assessment and Intervention*, Pearson Publishing 8/13
- Expert Panel Member, Read to Grow, Inc. (Connecticut Literacy Initiative) 2012-2015
- Ad-hoc peer reviews:
 - *ASHA Continuing Education Program*
 - *American Journal of Speech-Language Pathology*
 - *Assessment for Effective Intervention*
 - *Behavioral Research Methods*
 - *Clinical Linguistics & Phonetics*
 - *Ear and Hearing*
 - *International Journal of Speech-Language Pathology*
 - *Journal of the Acoustical Society of America*
 - *Journal of Autism and Developmental Disorders*
 - *Journal of Cognitive Neuroscience*
 - *Journal of Communication Disorders*
 - *Journal of Speech, Language & Hearing Research*
 - *Language, Speech & Hearing Services in Schools*
 - *Learning and Individual Differences*
 - *Mitacs Accelerate tablet-based software for screening young children's reading*
 - *Neuropsychiatric Genetics*
 - *Perspectives on Speech Science & Orofacial Disorders, ASHA SIG 5*
 - *PLOS One*
 - *Psychonomic Bulletin & Review*

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HONORS/AWARDS

- National Institutes of Health Loan Repayment Program for Clinical Researchers, funded by National Institute for Deafness and Communication Disorders 07/09-07/11
- Syracuse University Arts & Sciences Doctoral Dissertation Prize 05/09
- American Speech-Language-Hearing Foundation Travel Award for “Lessons for Success” Conference (NIH/ASHA co-sponsored) 3/08
- Student Research Travel Awards to attend ASHA Annual Convention in Boston, MA 11/07
- American Speech-Language Hearing Foundation Graduate Student Scholarship 11/05
- Vivian Louise Anderson Glenn Memorial Scholarship, by the Board of Regional Association Presidents representing the regional speech, language, hearing associations of NY 7/05
- Syracuse University Fellowship 8/04-5/07
- Syracuse University Graduate School Scholarship 8/00-5/02
- Elmira College Valedictorian Scholarship 8/96-6/00

RESEARCH IN POPULAR PRESS

- National Public Radio 4/07/14
<http://wshu.org/post/new-haven-lab-trying-ultrasound-therapy-treat-speech-disorders>
- Wall Street Journal 10/20/14
<http://online.wsj.com/articles/new-tool-for-children-with-speech-errors-1413831478>
- NBC Connecticut 1/6/15
<http://www.nbcconnecticut.com/video/#!/on-air/as-seen-on/Ultrasound-Technology-Helping-With-Speech-Difficulties/287701531>
- Yale Daily News 2/3/15
<http://yaledailynews.com/magazine/2015/02/03/the-sounds-that-bind-us/>
- Men’s Health 3/18/16
<http://www.menshealth.com/health/stumble-over-words>

PROFESSIONAL AFFILIATIONS

- Society for the Scientific Study of Reading (SSSR)
- New York State Speech-Language-Hearing Association
- American Speech-Language Hearing Association (ASHA) Certified Member
- American Speech-Language Hearing Association (ASHA) Special Interest Division Member:
 - Division 1: Language Learning and Education

PREVIOUS CLINICAL EXPERIENCE

- Research Associate:** *Syracuse University, Syracuse, NY* 6/07-8/08
- Coordinated research for Dr. Beth Prieve, Pediatric Audiologist
 - Assisted in recruitment of participants, data collection, analysis, and write-up for research funded by the March of Dimes Foundation designed to improve the identification of hearing loss in infants and young children
- Speech-Language Pathologist:** *Rochester Hearing & Speech Center, Rochester, NY* 4/04 – 8/04

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- Provided one-to-one intervention for preschool and school-age children with communication delays, including productive phonology, phonological awareness, fluency, and receptive and expressive language

Speech-Language Pathologist: *Rochester City School District, Rochester, NY* 9/02 – 6/04

- Treated primarily hearing impaired, phonologically impaired, and language delayed students; also serviced students with deficits in articulation, fluency, and phonemic awareness
- Conducted speech-language screenings and evaluations for culturally diverse children ages 5-12
- Provided consultative, individual, and group speech-language treatment in both push-in and pull-out settings to address IEP goals for students in grades K-6
- Completed Clinical Fellowship Year