

**CONTACT**

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 Google Scholar: <https://tinyurl.com/EdwinMaas>

**EDUCATION**

- 2006-2007 Post-doctoral training, Speech Motor Control  
**Boston University (BU)**  
**Massachusetts Institute of Technology (MIT)**  
 Advisors: Frank H. Guenther, Ph.D., & Joseph S. Perkell, D.M.D., Ph.D.
- 1999-2006 Ph.D., Language and Communicative Disorders  
**San Diego State University (SDSU)**  
**University of California, San Diego (UCSD)**  
 Dissertation: *The Nature and Time Course of Motor Programming in Apraxia of Speech*  
 Advisor: Donald A. Robin, Ph.D., CCC-SLP
- 1995-1998 M.A., Neurolinguistics (cum laude)  
**University of Groningen** (the Netherlands)  
 Thesis: *Sentence Comprehension and Sentence Anagrams in Broca's and Wernicke's Aphasics*  
 Advisor: Roelien Bastiaanse, Ph.D.
- 1994-1995 B.A., Dutch Linguistics and Literature  
**University of Groningen** (the Netherlands)

**ACADEMIC POSITIONS and AFFILIATIONS**

- 2018-present Associate Professor (tenured)  
**Temple University**, Philadelphia, PA; *Communication Sciences and Disorders*
- 2015-2018 Assistant Professor  
**Temple University**, Philadelphia, PA; *Communication Sciences and Disorders*
- 2010-2015 Assistant Professor  
**University of Arizona**, Tucson, AZ; *Speech, Language, and Hearing Sciences*
- 2008-2009 Research Associate  
**University of Arizona**, Tucson, AZ; *Speech, Language, and Hearing Sciences*
- 2008-2009 Adjunct Instructor  
**University of Arizona**, Tucson, AZ; *Speech, Language, and Hearing Sciences*
- 2007 Adjunct Instructor  
**Massachusetts General Hospital Institute of Health Professions**, Boston, MA;  
*Communication Sciences and Disorders*

- 2006 Adjunct Instructor  
**Northeastern University**, Boston, MA; *Speech-Language Pathology and Audiology*
- 2003-2004 Adjunct Instructor  
**San Diego State University**, San Diego, CA; *Speech, Language, and Hearing Sciences*
- 1998-1999 Visiting Scholar  
**San Diego State University**, San Diego, CA; *Speech, Language, and Hearing Sciences*  
**University of California, San Diego**, La Jolla, CA; *Psychology*
- 1999 Clinical Linguist  
**Rehabilitation Center Rijndam**, Rotterdam, the Netherlands; *Rotterdam Aphasia Foundation*
- 1999 Lab Manager  
**University of Groningen**, Groningen, the Netherlands; *Linguistics*
- 1997-1998 Research Assistant  
**University of Groningen**, Groningen, the Netherlands; *Linguistics*

#### **AWARDS & HONORS**

- 2014 Fellowship, *National Institutes of Health (NIH)*, Fourteenth Annual OBSSR/NHLBI Summer Institute on Randomized Behavioral Clinical Trials
- 2010 Fellowship, *American Speech-Language-Hearing Foundation & Research and Scientific Affairs Committee (ASHA-RSAC)*, Grant Review and Reviewer Training Program
- 2009 Fellowship, *American Speech-Language-Hearing Association & National Institute on Deafness and Other Communication Disorders (ASHA-NIDCD)*, Lessons for Success
- 2008 Editor's Award, *American Journal of Speech-Language Pathology*, for Maas et al. (2008)
- 2005 Student Research Travel Award, *American Speech-Language-Hearing Association (ASHA)*
- 2004, 2005 Student Fellowship, *National Institute on Deafness and Other Communication Disorders (NIDCD)*, Research Symposium in Clinical Aphasiology
- 2004 Graduate Student Scholarship, *American Speech-Language-Hearing Foundation*
- 2004 Kala Singh Memorial Scholarship
- 2002 Junior Mentor, *Clinical Aphasiology Conference*, First Annual Mentoring Luncheon
- 2001, 2003 Scholarship, *Friends of the International Center at the University of California, San Diego*
- 2001 International Student Scholarship, *Phi Beta Delta*
- 1998 Scholarship, *VSB Bank (the Netherlands)* for research training at San Diego State University and University of California, San Diego

#### **RESEARCH SPECIALTIES**

- Speech production (focus on **speech motor planning** and **phonological planning**)
- Speech disorders in children and adults (focus on **apraxia of speech** and **phonological disorders**)
- Speech motor learning (focus on **principles of motor learning** in **speech treatment**)
- Clinical trial design (including **randomized controlled trials** and **single-case experimental designs**)

## RESEARCH FUNDING

### **Active**

- 2021-2026     **National Institutes on Deafness and Other Communication Disorders (NIH/NIDCD)**  
 R01 DC018781 (PI: Hoover)  
*Understanding Mechanisms of Change and Optimal Parameters in Conversation Treatment for Aphasia*  
 Role: Co-Investigator (PI: E. Hoover; Co-Investigator: G. DeDe)  
 Total award: \$3,218,654 (direct cost \$2,453,813)
- 2020-2023     **National Health and Medical Research Council (Australian Government)**  
 APP1182901 Clinical Trials and Cohort Studies (PI: McCabe)  
*Dynamic Speech Therapy for Children with Apraxia*  
 Role: Co-Investigator (PI: P. McCabe; Co-Investigators: P. Cronin, R. Heard, B. McNeill, E. Murray, J. Preston, A. Purcell, & D. Thomas)  
 Total award: \$903,067 (AUS \$)
- 2019-2024     **National Institutes on Deafness and Other Communication Disorders (NIH/NIDCD)**  
 R01 DC017768 (PI: Maas)  
*ASSIST: Child Apraxia Speech Treatment*  
 Role: PI (Co-Investigators: S. Caspari & J. Wu)  
 Total award: \$2,169,698 (direct cost \$1,368,895)

### **Completed**

- 2021-2023     **Once Upon a Time... Foundation**  
 Treatment grant (PI: Preston)  
*The Effect of Treatment Intensity Using Dynamic Temporal and Tactile Cueing in Childhood Apraxia of Speech Treatment*  
 Role: Co-PI (PI: J. Preston; Co-PI: P. McCabe)  
 Total award: \$669,000 (awarded but returned due to disagreement with funder)
- 2017-2020     **National Institutes on Deafness and Other Communication Disorders (NIH/NIDCD)**  
 R21 DC015859 (PI: Hoover)  
*A Comparison of the Effects of Dosage and Group Dynamics on Discourse Outcomes in Aphasia*  
 Role: Co-Investigator (PI: E. Hoover; Co-Investigator: G. DeDe)  
 Total award: \$498,560 (direct cost \$348,992)
- 2016-2017     **Childhood Apraxia of Speech Association of North America (CASANA)**  
 Treatment Research Grant (PI: Maas)  
*Bang for your Buck: A Systematic Investigation of Amount and Intensity of Practice in Treatment for Childhood Apraxia of Speech*  
 Role: PI (Consultants: C. Gildersleeve-Neumann, K. Jakielski, & R. Stoeckel)  
 Total award: \$35,000

- 2016-2017 **Cleft Palate Foundation**  
 Junior Investigator Research Grant (PI: Scheer-Cohen)  
*Applying Principles of Motor Learning in Articulation Therapy for Children with Cleft Palate*  
 Role: Mentor/Consultant (PI: A. Scheer-Cohen)  
 Total award: \$5,000
- 2013-2016 **National Institutes on Deafness and Other Communication Disorders (NIH/NIDCD)**  
 R03 DC013152 (PI: Preston)  
*Ultrasound Biofeedback for Therapy-Resistant Children with Speech Sound Disorders*  
 Role: Consultant (PI: J. Preston)  
 Total award: \$557,214 (direct cost \$300,000)
- 2010-2015 **National Institutes on Deafness and Other Communication Disorders (NIH/NIDCD)**  
 K01 DC010216 (PI: Maas)  
*Psycholinguistic Investigations of Development and Disorders of Speech Production*  
 Role: PI (Mentors: L. Gerken & B. Story)  
 Total award: \$704,259 (direct cost \$651,548)
- 2009-2012 **American Speech-Language-Hearing Foundation**  
 New Century Scholars Research Grant (PI: Maas)  
*Feedback and Feedforward Control Mechanisms in Apraxia of Speech*  
 Role: PI (Collaborators: F. Guenther & B. Story)  
 Total award: \$10,000
- 2009-2010 **Childhood Apraxia of Speech Association of North America (CASANA)**  
 Treatment Research Grant (PI: Maas)  
*Practice Schedule and Feedback Frequency in Treatment for Childhood Apraxia of Speech*  
 Role: PI (Co-Investigator: K. Farinella)  
 Total award: \$12,000

#### **OTHER FUNDING**

(training grants, conference grants, intramural funding)

#### **In Revision**

- 2022-2026 **Department of Education**  
 Preparation of Special Education, Early Intervention, and Related Services Leadership  
 Personnel grant (Assistance Listing Number/CFDA 84.325D) (PD: Bedore)  
*Intervention and Higher Education Pedagogy in CSD for a Diverse Society*  
 Role: Co-Director (Project Director: L. Bedore)  
 Total requested: \$1,147,792 (direct cost \$1,109,048)

#### **Active**

- 2020-2022 **Portland State University**  
 Faculty grant (PI: Gildersleeve-Neumann)  
*Effectiveness, Efficacy, and Efficiency of Therapy for Speech Sound Disorders in Bilingual Children: Comparing Spanish-English Bilingual and English-Monolingual Treatment Delivery*  
 Role: Consultant (PI: C. Gildersleeve-Neumann)  
 Total awarded: \$15,000

**Completed**

- 2020-2022 **National Institutes on Deafness and Other Communication Disorders (NIH/NIDCD)**  
 F31 DC018723 (PI: Beiting)  
*The Impact of Individual-Level Factors on Progress in Speech Therapy for Children with Childhood Apraxia of Speech (CAS)*  
 Role: Sponsor (PI: M. Beiting; Co-Sponsors: D. Coffman & J. Iuzzini-Seigel)  
 Total awarded: \$63,024
- 2019-2021 **National Institutes on Deafness and Other Communication Disorders (NIH/NIDCD)**  
 F31 DC017654 (PI: Spencer)  
*Neural Mechanisms of Speech Production in Intervention for Residual Speech Sound Disorders*  
 Role: External Co-Sponsor (PI: C. E. Spencer; Sponsor: S. Boyce)  
 Total award: \$84,848
- 2018 **Temple University Graduate School**  
 First Summers Research Grant (PI: Beiting)  
*Treatment for Speech Disorders in Children with Autism Spectrum Disorder: A Novel Treatment*  
 Role: Mentor (PI: M. Beiting)  
 Total award: \$6,500
- 2017 **Temple University Graduate School**  
 First Summers Research Grant (PI: van Zelst)  
*Unpacking Active Ingredients and Optimizing Treatment Outcomes for Children with Childhood Apraxia of Speech: Simultaneous Audio & Visual Entrainment (SAVE) Treatment*  
 Role: Mentor (PI: A. van Zelst)  
 Total award: \$6,500
- 2017 **Once Upon A Time... Foundation**  
 Conference Grant (PI: Maas)  
*Treatment of Childhood Apraxia of Speech using DTTC (February 25-26, 2017)*  
 Role: PI (organizer)  
 Total award: \$20,997
- 2015-2017 **National Institutes on Deafness and Other Communication Disorders (NIH/NIDCD)**  
 F31 DC014375 (PI: Mailend)  
*Speech Motor Planning in Apraxia of Speech and Aphasia*  
 Role: Co-Sponsor (PI: M.-L. Mailend; Sponsor: P. Beeson)  
 Total award: \$86,240

**Not Awarded**

- 2022-2026 **National Institutes on Deafness and Other Communication Disorders (NIH/NIDCD)**  
 K23 (PI: Heller Murray)  
*Quantifying the role of vocal and articulatory variability in pediatric dysphonia*  
 Role: Mentor (PI: E. Heller Murray)  
 Total requested: \$914,719 (direct cost \$846,961)

- 2019      **National Institutes on Deafness and Other Communication Disorders (NIH/NIDCD)**  
T32 (PI: Reilly)  
*Plasticity in Learning and Communication: A Lifespan Perspective*  
Role: Faculty Affiliate (PI: J. Reilly)
- 2019      **Autism Speaks**  
Predoctoral Training Award (PI: Beiting)  
*Autism Centered Therapy for Childhood Apraxia of Speech (ACT4CAS)*  
Role: Advisor (PI: M. Beiting)  
Total requested: \$70,000
- 2018      **Autism Science Foundation**  
Predoctoral Training Award (PI: Beiting)  
*Autism Centered Therapy for Childhood Apraxia of Speech (ACT4CAS)*  
Role: Advisor (PI: M. Beiting)  
Total requested: \$25,000
- 2008      **American Speech-Language-Hearing Association**  
Advancing Academic Research Careers (AARC)  
Role: PI  
Total requested: \$5,000
- 2008      **University of Arizona**  
Faculty Small Grant  
*Learning New Speech Utterances: Effects of Practice Schedule*  
Role: PI  
Total requested: \$10,000

**PUBLICATIONS**

(\* indicates student co-author)

**Peer-reviewed Journal Articles***Submitted*

- a. \*Keller, S., & **Maas, E.** (submitted). Self-reported communication attitudes of children with childhood apraxia of speech. Revised manuscript under review.
- b. \*Spencer, C., Vannest, J., Preston, J. L., **Maas, E.**, Sizemore, E. R., McAllister, T., Whalen, D. H., Maloney, T., & Boyce, S. (submitted). Neural changes in children with residual speech sound disorder after ultrasound biofeedback speech therapy. Manuscript under review.

*Published*

1. Mailend, M.-L., **Maas, E.**, & Story, B. H. (2021). Apraxia of speech and the study of speech production impairments: Can we avoid further confusion? Reply to Romani (2021). *Cognitive Neuropsychology*, 38, 309-317.
2. Hoover, E., DeDe, G., & **Maas, E.** (2021). A randomized controlled trial of the effects of group conversation treatment on monologic discourse in aphasia. *Journal of Speech, Language, and Hearing Research*, 64, 4861-4875.
3. \*Beiting, M., & **Maas, E.** (2021). Autism-Centered Therapy for Childhood Apraxia of Speech (ACT4CAS): A single-case experimental design study. *American Journal of Speech-Language Pathology*, 30, 1525-1541.
4. \*Spencer, C., Vannest, J., **Maas, E.**, Preston, J. L., Redle, E., Maloney, T., & Boyce, S. (2021). Neuroimaging of the Syllable Repetition Task in children with residual speech sound disorder. *Journal of Speech, Language, and Hearing Research*, 64, 2223-2233.
5. \*Mailend, M.-L., **Maas, E.**, Beeson, P., Story, B., & Forster, K. (2021). Examining speech motor planning difficulties in apraxia of speech and aphasia via the sequential production of phonetically similar words. *Cognitive Neuropsychology*, 38, 72-87.
6. Murray, E. J., Iuzzini-Seigel, J., **Maas, E.**, Terband, H., & Ballard, K. J. (2021). Differential diagnosis of childhood apraxia of speech compared to other speech sound disorders: A systematic review. *American Journal of Speech-Language Pathology*, 30, 279-300.
7. Terband, H., Rodd, J., & **Maas, E.** (2020). Testing hypotheses about the underlying deficit of apraxia of speech (AOS) through computational neural modeling with the DIVA model. *International Journal of Speech-Language Pathology*, 22, 475-486.
8. **Maas, E.**, Gildersleeve-Neumann, C., Jakielski, K., \*Kovacs, N., Stoeckel, R., \*Vrabelis, H., & \*Welsh, M. (2019). Bang for your buck: A single-case experimental design study of practice amount and distribution in treatment for childhood apraxia of speech. *Journal of Speech, Language, and Hearing Research*, 62, 3160-3182.
9. Terband, H., Namasivayam, A., **Maas, E.**, van Brenk, F., \*Mailend, M.-L., Diepeveen, S., van Lieshout, P., & Maassen, B. (2019). Assessment of childhood apraxia of speech: A review/tutorial of objective measurement techniques. *Journal of Speech, Language, and Hearing Research*, 62, 2999-3032.

10. DeDe, G., Hoover, E., & **Maas, E.** (2019). Two to tango or the more the merrier? A randomized controlled trial of the effects of group size in aphasia conversation treatment on standardized tests. *Journal of Speech, Language, and Hearing Research*, 62, 1437-1451.
11. \*Mailend, M.-L., **Maas, E.**, Beeson, P., Story, B., & Forster, K. (2019). Reprogramming the speech motor buffer: Evidence from apraxia of speech and aphasia. *Neuropsychologia*, 127, 171-184.
12. Preston, J. L., Leece, M. C., McNamara, K., & **Maas, E.** (2017). Variable practice during ultrasound visual feedback treatment for childhood apraxia of speech. *American Journal of Speech-Language Pathology*, 26, 840-852.
13. **Maas, E.** (2017). Speech versus nonspeech: What are we talking about? *International Journal of Speech-Language Pathology*, 19, 345-359.
14. **Maas, E.**, & \*Mailend, M.-L. (2017). Fricative contrast and coarticulation in children with and without speech sound disorders. *American Journal of Speech-Language Pathology*, 26, 649-663.
15. Preston, J. L., Leece, M. C., & **Maas, E.** (2017). Motor-based treatment with and without ultrasound feedback for residual speech sound errors. *International Journal of Language and Communication Disorders*, 52, 80-94.
16. Preston, J. L., Leece, M. C., & **Maas, E.** (2016). Intensive treatment with ultrasound visual feedback for speech sound errors in childhood apraxia. *Frontiers in Human Neuroscience*, 10:440. doi: 10.3389/fnhum.2016.00440
17. McAllister Byun, T., Swartz, M. T., Halpin, P. F., Szeredi, D., & **Maas, E.** (2016). Direction of attentional focus in biofeedback treatment for /r/ misarticulation. *International Journal of Language and Communication Disorders*, 51, 384-401.
18. 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, 363-381.
19. Terband, H., Maassen, B., & **Maas, E.** (2016). Een procesgerichte aanpak van differentiaaldiagnose en therapieplanning bij spraakontwikkelingsstoornissen. *Stem-, Spraak-, en Taalpathologie*, 21, 1-31. [ A process-oriented approach to differential diagnosis and treatment planning in childhood speech sound disorders. ]
20. Ballard, K. J., Wambaugh, J. L., Duffy, J. R., Layfield, C., **Maas, E.**, Mauszycki, S., & McNeil, M. R. (2015). Treatment for acquired apraxia of speech: A systematic review of intervention research between 2004 and 2012. *American Journal of Speech-Language Pathology*, 24, 316-337.
21. **Maas, E.**, \*Mailend, M.-L., & Guenther, F. H. (2015). Feedforward and feedback control in apraxia of speech (AOS): Effects of noise masking on vowel production. *Journal of Speech, Language, and Hearing Research*, 58, 185-200.
22. 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, 2102-2115.
23. **Maas, E.**, \*Gutiérrez, K., & Ballard, K. J. (2014). Phonological encoding in apraxia of speech and aphasia. *Aphasiology*, 28 (1), 25-48.



24. \*Mailend, M.-L., & **Maas, E.** (2013). Speech motor planning in apraxia of speech: Evidence from a delayed picture-word interference task. *American Journal of Speech-Language Pathology*, 22, S380-S396.
25. **Maas, E.**, & \*Mailend, M.-L. (2012). Speech planning happens before speech execution: Contributions of on-line reaction time methods in the study of apraxia of speech. *Journal of Speech, Language, and Hearing Research*, 55, S1523-S1534.
26. **Maas, E.**, \*Butalla, C. E., & Farinella, K. A. (2012). Feedback frequency in treatment for childhood apraxia of speech. *American Journal of Speech-Language Pathology*, 21, 239-257.
27. **Maas, E.**, & Farinella, K. A. (2012). Random versus blocked practice in treatment for childhood apraxia of speech. *Journal of Speech, Language, and Hearing Research*, 55, 561-578.
28. Ghosh, S. S., Matthies, M. L., **Maas, E.**, Hanson, A., Tiede, M., Ménard, L., Guenther, F. H., Lane, H., & Perkell, J. S. (2010). An investigation of the relation between sibilant production and somatosensory and auditory acuity. *Journal of the Acoustical Society of America*, 128 (5), 3079-3087.
29. Austermann Hula, S. N., Robin, D. A., **Maas, E.**, Ballard, K. J., & Schmidt, R. A. (2008). Effects of feedback frequency and timing on acquisition, retention, and transfer of speech skills in acquired apraxia of speech. *Journal of Speech, Language, and Hearing Research*, 51 (5), 1088-1113.
30. **Maas, E.**, Robin, D. A., Wright, D. L., & Ballard, K. J. (2008). Motor programming in apraxia of speech. *Brain and Language*, 106, 107-118.
31. **Maas, E.**, Robin, D. A., Austermann Hula, S. N., Freedman, S. E., Wulf, G., Ballard, K. J., & Schmidt, R. A. (2008). Principles of motor learning in treatment of motor speech disorders. *American Journal of Speech-Language Pathology*, 17, 277-298. (Received 2008 Editor's Award).
32. Ballard, K. J., **Maas, E.**, & Robin, D. A. (2007). Treating control of voicing in apraxia of speech with variable practice. *Aphasiology*, 21 (12), 1195-1217.
33. Freedman, S. E., **Maas, E.**, Caligiuri, M. P., Wulf, G., & Robin, D. A. (2007). Internal vs. external: Oral-motor performance as a function of attentional focus. *Journal of Speech, Language, and Hearing Research*, 50 (1), 131-136.
34. Love, T., **Maas, E.**, & Swinney, D. (2003). The influence of language exposure on lexical and syntactic language processing. *Experimental Psychology*, 50 (3), 204-216.
35. Bastiaanse, R., Edwards, S., **Maas, E.**, & Rispens, J. (2003). Assessing comprehension and production of verbs and sentences: The Verb and Sentence Test (VAST). *Aphasiology*, 17 (1), 49-73.
36. **Maas, E.**, Barlow, J., Robin, D., & Shapiro, L. (2002). Treatment of sound errors in aphasia and apraxia of speech: Effects of phonological complexity. *Aphasiology*, 16 (4/5/6), 609-622.
37. Bastiaanse, R., Rispens, J., & **Maas, E.** (2000). De Werkwoorden- en Zinnentest (WEZT). Een nieuw diagnostisch instrument voor afasie. *Logopedie en Foniatrie*, 72 (12), 259-267. [ The Verb and Sentence Test (VAST). A new diagnostic instrument for aphasia. ]
38. **Maas, E.** (1998). Zinsbegrip en zinsanagrammen bij Broca-patiënten en Wernicke-patiënten. *Toegepaste Taalwetenschap in Artikelen*, 3, 65-76. Proceedings of the ANÉLA/VKL/WAP conference, Amsterdam, May 1998). [ Sentence comprehension and sentence anagrams in Broca's aphasia patients and Wernicke's aphasia patients. ]

### **Invited Articles**

1. Mailend, M.-L., & **Maas, E.** (2021). To lump or to split? Possible subtypes of apraxia of speech. *Aphasiology*, 35, 592-613.
2. Terband, H., Maassen, B., & **Maas, E.** (2019). A model of speech development and disorders for diagnosis and treatment planning. *Folia Phoniatrica et Logopaedica*, 71, 216-227.
3. **Maas, E.** (2015). Optimalisering van spraaktherapie: De toepassing van trainingsprincipes voor het leren van motorische vaardigheden. *Stem-, Spraak-, en Taalpathologie*, 20, 44-70. [ Optimization of speech therapy: The application of principles of motor learning. ]
4. **Maas, E.**, Gildersleeve-Neumann, C. E., Jakielski, K. J., & Stoeckel, R. (2014). Motor-based intervention protocols in treatment of childhood apraxia of speech (CAS). *Current Developmental Disorders Reports*, 1 (3), 197-206.
5. **Maas, E.** (2010). Conditions of practice and feedback in treatment for apraxia of speech. *Perspectives on Neurophysiology and Neurogenic Speech and Language Disorders*, 20 (3), 81-87.

### **Book Chapters**

1. Terband, H., Maassen, B., & **Maas, E.** (2016). Towards a model of pediatric speech sound disorders (SSD) for differential diagnosis and therapy planning. In P. van Lieshout, B. Maassen, & H. Terband, (Eds.), *Speech Motor Control in Normal and Disordered Speech: Future Developments in Theory and Methodology* (pp. 81-110). Rockville, MD: American Speech-Language-Hearing Association.
2. **Maas, E.**, & Robin, D. A. (2009). Motor speech disorders: Apraxia and dysarthria. In L. Justice (Ed.), *Communication Sciences and Disorders: An Introduction (2<sup>nd</sup> edition)* (pp. 392-425). Columbus, OH: Merrill Prentice Hall.
3. **Maas, E.**, Freedman, S. E., & Robin, D. A. (2009). Traumatic brain injury. In M.R. McNeil (Ed.), *Clinical Management of Sensorimotor Speech Disorders (2<sup>nd</sup> edition)* (pp. 391-393). New York: Thieme.
4. Freedman, S. E., **Maas, E.**, & Robin, D. A. (2009). Neurofibromatosis. In M.R. McNeil (Ed.), *Clinical Management of Sensorimotor Speech Disorders (2<sup>nd</sup> edition)* (pp. 352-353). New York: Thieme.
5. Robin, D. A., **Maas, E.**, Sandberg, Y., & Schmidt, R. A. (2007). Motor control and learning and childhood apraxia of speech. In P. Hall, L. Jordan, & D.A. Robin (Eds.), *Developmental Apraxia of Speech. Theory and Clinical Practice (2<sup>nd</sup> edition)* (pp. 67-86). Austin, TX: Pro-Ed.
6. **Maas, E.** & Robin, D. A. (2005). Motor speech disorders: Apraxia and dysarthria. In L. Justice (Ed.), *Communication Sciences and Disorders: An Introduction* (pp. 180-211). Columbus OH: Merrill Prentice Hall.

### **Tests**

1. Bastiaanse, R., **Maas, E.**, Rispens, J., Schaap, L., & Mellema, A. (2000). *De Werkwoorden en Zinnentest (WEZT)*. Lisse: Swets & Zeitlinger. [The Verb and Sentence Test (VAST). ]

### **Published Abstracts and Conference Proceedings**

1. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C., Stoeckel, R., & Wu, J. (2022). A randomized controlled trial of ASSIST for childhood apraxia of speech: Initial findings. *Stem-, Spraak- en Taalpathologie*, 27, Supplement, 166-167.
2. **Maas, E.**, Schölderle, T., Williams, P., Hayden, D., Iuzzini-Seigel, J., Kent, R., Murray, E., Nip, I., & Terband, H. (2022). Pediatric motor speech disorders: A panel discussion on a consensus Delphi project. *Stem-, Spraak- en Taalpathologie*, 27, Supplement, 47-48.
3. \*Purcell, C., Wambaugh, J., & **Maas, E.** (2022). A comparison of Sound Production Treatment and Metrical Pacing Therapy for apraxia of speech. *Stem-, Spraak- en Taalpathologie*, 27, Supplement, 176-177.
4. \*Beiting, M., Iuzzini-Seigel, J., & **Maas, E.** (2022). An exploratory analysis of individual-level predictors of CAS treatment response. *Stem-, Spraak- en Taalpathologie*, 27, Supplement, 45-46.
5. Hoover, E. L., DeDe, G., & **Maas, E.** (2018). Effects of group size on conversation treatment outcomes: results of standardized testing. *Aphasiology*, 32 (S1), 93-95.
6. **Maas, E.** (2017). Principles of motor learning in treatment for apraxia of speech. *Frontiers in Human Neuroscience*. Conference Abstract: Academy of Aphasia 55<sup>th</sup> Annual Meeting. doi: 10.3389/conf.fnhum.2017.223.00094.
7. \*Mailend, M.-L., **Maas, E.**, & Beeson, P. (2017). Examining the articulatory buffer in apraxia of speech. *Stem-, Spraak- en Taalpathologie*, 22 Supplement, 107.
8. \*van Zelst, A., & **Maas, E.** (2017). Speech timing in children with and without speech sound disorders: Acoustic measures of absolute and relative timing accuracy. *Stem-, Spraak- en Taalpathologie*, 22 Supplement, 113.
9. Terband, H., Rodd, J., & **Maas, E.** (2015). Simulations of feedforward and feedback control in apraxia of speech (AOS): Effects of noise masking on vowel production in the DIVA model. In: *The 18th International Congress of Phonetic Sciences (ICPhS 2015)*.
10. Byun, T. M., Richtsmeier, P., & **Maas, E.** (2013). Covert contrast in child phonology is not necessarily extragrammatical. In *LSA 2013 Annual Meeting Extended Abstracts*. Linguistic Society of America.
11. **Maas, E.**, \*Mailend, M.-L., & Guenther, F. H. (2011). The role of auditory feedback in apraxia of speech: Effects of feedback masking on vowel contrast. *Stem-, Spraak- en Taalpathologie*, 17 (suppl.), 14.
12. **Maas, E.**, Robin, D. A., Steinhauer, V., Ballard, K. J., Magnuson, C. E., & Wright, D. L. (2006). Motor programming in apraxia of speech: A reaction time approach. *Stem-, Spraak- en Taalpathologie*, 14 (suppl.), 69.
13. Rhee, J. H., Robin, D. A., **Maas, E.**, & Wright, D. L. (2006). Motor programming during speech articulation: An application of Klapp's two-process model. *Journal of Sport and Exercise Psychology*, 28, S152-S153.
14. Wright, D. L., Robin, D. A., **Maas, E.**, & Magnuson, C. E. (2006). A general motor programming deficit contributes to apraxia of speech. *Journal of Sport and Exercise Psychology*, 28, S195.
15. Bastiaanse, R., & **Maas, E.** (1998). Verb movement in agrammatic production. *Brain and Language*, 65, 52-55.

**Other**

1. \*Skoog, K., & **Maas, E.** (2020). Predicting intelligibility: An investigation of speech sound accuracy in childhood apraxia of speech. *CommonHealth*, 1 (2), 44-56.
2. Maassen, B., Terband, H., **Maas, E.**, & Namasivayam, A. (2019). Preface Special Issue: Select Papers from the 7<sup>th</sup> International Conference on Speech Motor Control. *Journal of Speech, Language, and Hearing Sciences*, 62, 2923-2925.

## **PRESENTATIONS**

(\* indicates student co-author)

### **Invited Presentations**

- a. **Maas, E.** (2025). ASSIST: Lessons from a randomized controlled trial of treatment for childhood apraxia of speech. Invited speaker for the *2025 Research Symposium on Clinical Trials for Treatment Effectiveness* at the American Speech-Language-Hearing Association Convention (Washington, DC, November 2025).
  - b. **Maas, E.** (2023). Dragons and astronauts: An epic saga of a randomized controlled trial of treatment for childhood apraxia of speech. Invited speaker for the Danish Speech-Language-Hearing Association Convention (Nyborg, Denmark, March 2023).
1. **Maas, E.** (2022). Highlights from the 3<sup>rd</sup> Apraxia Kids Research Symposium. Invited presentation for the 2022 Apraxia Kids National Conference (Las Vegas, NV, July 2022).
  2. **Maas, E.** (2022). Treatment for childhood apraxia of speech: Where are we and where do we go? Invited plenary presentation for the 2022 Childhood Apraxia of Speech Research Symposium (Las Vegas, NV, July 2022).
  3. **Maas, E.** (2021). Childhood apraxia of speech (CAS) and speech sound disorders (SSD): How to cut the pie is no piece of cake. Invited presentation at a special panel session (with Susan Rvachew and Tricia McCabe) at the International Association of Logopedics and Phoniatrics meeting (virtual, December 2021).
  4. Robin, D. A., & **Maas, E.** (2021). Evidence-based treatments for apraxia of speech in adults. Invited presentation for the New Hampshire Speech-Language-Hearing Association (virtual, September 2021).
  5. Robin, D. A., & **Maas, E.** (2021). Fish or fowl: Diagnosing apraxia of speech in adults. Invited presentation for the New Hampshire Speech-Language-Hearing Association (virtual, September 2021).
  6. **Maas, E.** (2020). Principles of motor learning and childhood apraxia of speech. Invited speaker for the 2020 on-line conference of ABRAPRAXIA (Brazilian Childhood Apraxia of Speech Association) (October 2020).
  7. **Maas, E.** (2019). ASSIST: A phase 1 randomized controlled trial of integral stimulation speech therapy for childhood apraxia of speech (CAS). Invited research seminar in the Division of Speech and Language Pathology, Karolinska Institutet (Stockholm, Sweden, December 2019).
  8. **Maas, E.** (2019). Principles of motor learning and speech production. Invited presentation at the Karolinska Institutet Winter Course on *Speech Production – Theoretical models related to neuromotor speech disorders in children and adults* (Stockholm, Sweden, December 2019).
  9. **Maas, E.** (2019). Speech production models in relation to apraxia of speech (AOS). Invited presentation at the Karolinska Institutet Winter Course on *Speech Production – Theoretical models related to neuromotor speech disorders in children and adults* (Stockholm, Sweden, Dec. 2019).
  10. **Maas, E.** (2019). Treatment for childhood apraxia of speech (CAS). Invited presentation at the Brain Korea Workshop at Ewha Womans University (Seoul, South Korea, August 2019).

11. **Maas, E.**, Santos Ford, D., & Vasiloff, G. (2019). Summer Camps for Childhood Apraxia of Speech. Invited Round Table discussion at the National Conference on Childhood Apraxia of Speech (Pittsburgh, PA, July 2019).
12. **Maas, E.** (2018). Evidence-based treatment for childhood apraxia of speech. Invited presentation at the International Conference on Special Education and Speech Therapy, dedicated to the 50<sup>th</sup> anniversary of Special Education & Speech Therapy at Tartu University (Tartu, Estonia, Oct. '18)
13. **Maas, E.** (2018). Zijn principes voor het leren van motorische vaardigheden relevant voor spraakontwikkelingsdyspraxie (SOD)? [Are principles of motor learning relevant for childhood apraxia of speech (CAS)?]. Invited talk in special session (with Ben Maassen, Veerle Waelkens, & Karin Brinkmann), presented at the annual conference of the VVL (Vlaamse Vereniging voor Logopedisten) [Flemish Speech-Language Pathology Association] (Gent, Belgium, March 2018).
14. **Maas, E.** (2018). Theoretisch kader bij spraakontwikkelingsdyspraxie (SOD): Waar gaat het mis? [Theoretical framework for childhood apraxia of speech (CAS): What goes wrong?]. Invited talk in special session (with Ben Maassen, Veerle Waelkens, & Karin Brinkmann), presented at the annual conference of the VVL (Vlaamse Vereniging voor Logopedisten) [Flemish Speech-Language Pathology Association] (Gent, Belgium, March 2018).
15. **Maas, E.** (2017). Principles of motor learning in treatment for apraxia of speech. Invited presentation in symposium on learning (with Gary Dell, Erica Middleton, Brenda Rapp, & Sofia Vallila Rohter), presented at the Academy of Aphasia (College Park, MD, November 2017).
16. **Maas, E.** (2017). Principles of motor learning: What are they and do they work for speech motor learning? Invited presentation at the Winter School on *Speech Perception and Production* (Berlin, Germany, January 2017).
17. **Maas, E.** (2016). Phonological planning and speech motor planning: Insights from speech-language production disorders. Invited presentation (*Speech and Language Science* committee) for panel entitled *Disorders at the interface of language and motor control: Experiments and modeling* (with Joe Duffy, Lisa Goffman, & Frank Guenther), presented at the American Speech-Language-Hearing Association Convention (Philadelphia, PA, November 2016).
18. Baker, E., & **Maas, E.** (2016). Making evidence-based decisions for children with speech sound disorders. Invited short course (*Speech Sound Disorders* committee), presented at the American Speech-Language-Hearing Association Convention (Philadelphia, PA, November 2016).
19. **Maas, E.** (2016). Principles of motor learning in treatment of apraxia of speech. Invited presentation at the Annual Eleanor M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders (Philadelphia, PA, September 2016).
20. **Maas, E.** (2016). An introduction to principles of motor learning in treatment for CAS: What are they and do they work? Invited presentation at the National Childhood Apraxia of Speech Conference (Itasca, IL, July 2016).
21. **Maas, E.** (2016). Apraxia of speech: Treatment approaches and their evidence. Invited oral seminar presented at the Annual Illinois Speech-Language-Hearing Association Convention (Rosemont, IL, February 2016).
22. **Maas, E.** (2016). Apraxia of speech: Current views on assessment and diagnosis. Invited oral seminar presented at the Annual Illinois Speech-Language-Hearing Association Convention (Rosemont, IL, February 2016).

23. **Maas, E.** (2014). Principles of motor learning in childhood speech disorders. Invited oral seminar for the *Motor Speech Disorders in Adults and Children* committee, presented at the American Speech-Language-Hearing Association Convention (Orlando, FL, November 2014).
24. **Maas, E.** (2013). An introduction to principles of motor learning and their relevance for speech and voice. Invited short course entitled *Motor Learning Principles: Clinical Implications for Voice Disorders*, presented at the American Speech-Language-Hearing Association Convention (Chicago, IL, November 2013).
25. **Maas, E.** (2013). State of the Art in CAS Neurocognitive-Behavioral Research: Some thoughts for moving forward in assessment and treatment. Panel response presented at the Childhood Apraxia of Speech Research Symposium (Atlanta, GA, February 2013).
26. **Maas, E.** (2012). Snake oil, fish oil, ethics, and evidence in the field of communication pathology. Invited short course, Department of Communication Pathology, University of Pretoria (Pretoria, South Africa, August 2012)
27. **Maas, E.** (2011). Interpreting the evidence in evidence-based practice: A tutorial on single-subject treatment research. Paper presented at the National Childhood Apraxia of Speech Conference (San Diego, CA, July 2011).
28. **Maas, E.** (2010). Principles of motor learning: A brief introduction. Invited presentation for short course entitled *Motor Learning Principles: Clinical Implications for Stuttering & Other Disorders*, at the American Speech-Language-Hearing Association Convention (Philadelphia, PA, Nov. 2010).
29. **Maas, E.** (2010). Principles of motor learning in childhood apraxia of speech. Invited presentation at the Grunewald-Blitz Workshop (Tucson, AZ, September 2010).
30. **Maas, E.** (2010). Principles of motor learning applied to childhood apraxia of speech: An overview and new evidence. Invited presentation at the National Conference on Childhood Apraxia of Speech (Pittsburgh, PA, July 2010).
31. Farinella, K., & **Maas, E.** (2010). Applying principles of motor learning to treatment for childhood apraxia of speech: New evidence. Invited presentation at the Arizona Speech-Language Hearing Association Convention (Phoenix, Arizona, April 2010).
32. **Maas, E.** (2009). Speech / spoken language planning in children. Invited presentation at the Auditory Cognitive Neuroscience Society Meeting (Tucson, AZ, January 2009).
33. Shapiro, L., Swinney, D., & **Maas, E.** (2003). The contributions of lexical and structural information in language comprehension. Invited symposium presented at the Clinical Aphasiology Conference (Orca's Island, WA, May 2003).
34. **Maas, E.** & Barlow, J. A. (2003). Complexity in language and learning: implications for planning treatment. Invited presentation at the First Annual Southern California Conference on Speech, Language and Hearing Sciences (San Diego, CA, February 2003).

## **Peer-reviewed Conference Presentations**

### *Oral Presentations*

- a. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C. E., Stoeckel, R., & Wu, J. (accepted). Initial treatment efficacy of ASSIST for childhood apraxia of speech: A randomized controlled trial. Presentation accepted to the American Speech-Language Hearing Association Convention (New Orleans, La., November 2022).
  - b. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C. E., Niculae-Caxi, T., Stoeckel, R., & Wu, J. (accepted). Virtual speech therapy for childhood apraxia of speech (CAS): Effects of intensity on functional outcomes. Presentation accepted to the American Speech-Language Hearing Association Convention (New Orleans, La., November 2022).
1. \*Beiting, M., **Maas, E.**, & Iuzzini-Seigel, J. (2022). An exploratory analysis of individual-level predictors of CAS treatment response. Paper presented at the International Conference on Speech Motor Control (Groningen, the Netherlands, August 2022)
  2. **Maas, E.**, Schölderle, T., Williams, P., Hayden, D., Iuzzini-Seigel, J., Kent, R., Murray, E., Nip, I., & Terband, H. (2022). Pediatric motor speech disorders: A panel discussion on a consensus Delphi project. Panel presented at the International Conference on Speech Motor Control (Groningen, the Netherlands, August 2022).
  3. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C., Niculae-Caxi, T., Stoeckel, R., & Wu, J. (2022). Virtual ASSIST speech therapy for childhood apraxia of speech (CAS): Effects of intensity on caregiver-rated functional outcomes. Paper presented at the Childhood Apraxia of Speech Research Symposium (Las Vegas, NV, July 2022).
  4. \*Keller, S., & **Maas, E.** (2022). Self-reported communication attitudes of children with childhood apraxia of speech. Paper presented at the Childhood Apraxia of Speech Research Symposium (Las Vegas, NV, July 2022).
  5. \*Beiting, M., Iuzzini-Seigel, J., & **Maas, E.** (2022). Speech perception abilities of children with CAS: Preliminary findings. Paper presented at the Childhood Apraxia of Speech Research Symposium (Las Vegas, NV, July 2022).
  6. \*Skoog, K., & **Maas, E.** (2021). Predicting intelligibility: An investigation of speech sound accuracy in childhood apraxia of speech. Paper presented at the American Speech-Language Hearing Association Convention (Washington, DC, November 2021).
  7. **Maas, E.**, \*Mahoney, P., DeDe, G., & Kohen, F. (2021). Script training in apraxia of speech (AOS): Effects of feedback type. Paper presented at the American Speech-Language Hearing Association Convention (Washington, DC, November 2021).
  8. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C., Stoeckel, R., & Wu, J. (2021). Parent-rated functional outcomes from a randomized controlled trial for childhood apraxia of speech (CAS). Paper presented at the American Speech-Language Hearing Association Convention (Washington, DC, November 2021).
  9. **Maas, E.**, \*Potkovic, G., DeDe, G., & Kohen, F. (2021). Feedback control in treatment for apraxia of speech. Paper presented at the American Speech-Language Hearing Association Convention (Washington, DC, November 2021).



10. **Maas, E.**, \*Mahoney, P., DeDe, G., & Kohen, F. (2020 - accepted). Script training in apraxia of speech (AOS): Effects of feedback type. Paper accepted for the American Speech-Language Hearing Association Convention (San Diego, CA, November 2020). *CANCELED due to COVID-19.*
11. \*Skoog, K., & **Maas, E.** (2020 - accepted). Predicting intelligibility: An investigation of speech sound accuracy in childhood apraxia of speech. Paper accepted for the American Speech-Language Hearing Association Convention (San Diego, CA, November 2020). *CANCELED due to COVID-19.*
12. Hoover, E., DeDe, G., & **Maas, E.** (2020 - accepted). Conversation treatment for aphasia: Finding your recipe for success. Oral seminar accepted for the American Speech-Language Hearing Association Convention (San Diego, CA, November 2020). *CANCELED due to COVID-19.*
13. Hoover, E., DeDe, G., & **Maas, E.** (2021). Conversation treatment: What's in a narrative? Paper presented at the British Aphasiology Society conference (virtual, September 2021).
14. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C., Stoeckel, R., & Wu, J. (2020 - accepted). Making an impact: Functional outcomes following treatment for childhood apraxia of speech. Paper accepted for the 2020 Childhood Apraxia of Speech Research Symposium (Plano, TX, July 2020). *CANCELED due to COVID-19.*
15. \*Beiting, M., & **Maas, E.** (2020 - accepted). Autism-Centered Therapy for Childhood Apraxia of Speech. Paper accepted for the 2020 Childhood Apraxia of Speech Research Symposium (Plano, TX, July 2020). *CANCELED due to COVID-19.*
16. Hoover, E., DeDe, G., & **Maas, E.** (2020 - accepted). The relative benefits of different discourse measures for varied profiles of aphasia. Roundtable accepted for the Clinical Aphasiology Conference (Hawaii, HI, May 2020). *CANCELED due to COVID-19.*
17. DeDe, G., Hoover, E., & **Maas, E.** (2020 - accepted). Conversation Treatment: What's in a narrative? Paper accepted to the 2020 International Aphasia Rehabilitation Conference (Vancouver, Canada, June 2020). *CANCELED due to COVID-19.*
18. Terband, H., Rodd, J., & **Maas, E.** (2018). Testing hypotheses about the underlying deficit of apraxia of speech (AOS) through computational neural modelling with the DIVA model. Paper presented at the Nederlandse Vereniging voor Fonetische Wetenschappen Dag van de Fonetiek (Dutch Org. for Phonetic Sciences Day of Phonetics) (Groningen, the Netherlands, Dec. 2018).
19. Murray, E., Iuzzini-Seigel, J., **Maas, E.**, Terband, H., & Ballard, K. J. (2018). Diagnosis of childhood apraxia of speech compared to other speech sound disorders: A systematic review. Paper presented at the American Speech-Language-Hearing Association Convention (Boston, MA, November 2018).
20. Hoover, E., DeDe, G., **Maas, E.**, & McFee, A. (2018). Conversational group treatment approaches: The influence of group size. Oral seminar presented at the American Speech-Language-Hearing Association Convention (Boston, MA, November 2018).
21. \*Van Zelst, A., & **Maas, E.** (2018). Unpacking active ingredients for treatment of childhood apraxia of speech: Simultaneous Audio-Visual Entrainment (SAVE) treatment. Paper accepted for the American Speech-Language-Hearing Association Convention (Boston, MA, November 2018). *WITHDRAWN.*
22. DeDe, G., Hoover, E., & **Maas, E.** (2018). Effects of group size on conversation treatment outcomes: Results of standardized testing. Paper presented at the Clinical Aphasiology Conference (Austin, TX, May 2018).

23. **Maas, E.**, Gildersleeve-Neumann, C. E., Jakielski, K., \*Kovacs, N., Stoeckel, R., \*Vradelis, H., \*Welsh, M., & \*van Zelst, A. (2018). Treatment amount and intensity in childhood apraxia of speech (CAS). Paper accepted for presentation at the Biennial Conference on Motor Speech (Savannah, GA, February 2018). *WITHDRAWN due to illness*.
24. Terband, H., Rodd, J., & **Maas, E.** (2018). Testing hypotheses about the underlying deficit of apraxia of speech (AOS) through computational neural modelling: Effects of noise masking on vowel production in the DIVA model. Paper presented at the Biennial Conference on Motor Speech (Savannah, GA, February 2018).
25. **Maas, E.**, Gildersleeve-Neumann, C. E., Jakielski, K., \*Kovacs, N., Stoeckel, R., \*Vradelis, H., \*Welsh, M., & \*van Zelst, A. (2017). Treatment for childhood apraxia of speech (CAS): Amount and intensity of practice. Paper presented at the American Speech-Language-Hearing Association Convention (Los Angeles, CA, November 2017).
26. \*Mailend, M.-L., & **Maas, E.** (2016). The effect of phonetic similarity on speech motor planning in apraxia of speech and aphasia. Paper presented at the American Speech-Language-Hearing Association Convention (Philadelphia, PA, November 2016).
27. **Maas, E.** (2016). Principles of motor learning in treatment for CAS: An update and new findings. Paper presented at National Conference on Childhood Apraxia of Speech (Itasca, IL, July 2016).
28. \*Mailend, M.-L., Beeson, P. M., & **Maas, E.** (2016). Reprogramming phonetically similar words in apraxia of speech and aphasia. Paper presented at the Clinical Aphasiology Conference (Charlottesville, VA, May 2016).
29. **Maas, E.** (2016). Speech and nonspeech: What are we talking about? Paper presented at the Biennial Conference on Motor Speech (Newport Beach, CA, March 2016).
30. Terband, H., Rodd, J., & **Maas, E.** (2015). Simulations of feedforward and feedback control in apraxia of speech (AOS): Effects of noise masking on vowel production in the DIVA model. Paper presented at the International Congress of Phonetic Sciences (Glasgow, Scotland, Aug. 2015).
31. \*Mailend, M.-L., **Maas, E.**, & Forster, K. I. (2014). Interference from phonetic similarity in masked priming. Paper presented at the American Speech-Language-Hearing Association Convention (Orlando, FL, November 2014).
32. **Maas, E.**, \*Alvarez, L., & \*Mailend, M.-L. (2014). Fricative production in children with speech sound disorders. Paper presented at the American Speech-Language-Hearing Association Convention (Orlando, FL, November 2014).
33. **Maas, E.**, \*Bueno, F., \*Mailend, M.-L., & Guenther, F. (2014). Feedback and feedforward control in apraxia of speech (AOS): Noise masking effects on fricative production. Paper presented at the Clinical Aphasiology Conference (St. Simon's Island, GA, May-June 2014).
34. **Maas, E.**, \*Bueno, F., \*Mailend, M.-L., & Guenther, F. H. (2014). Effects of feedback masking on fricative contrast in speakers with and without apraxia of speech. Paper presented at the Biennial Conference on Motor Speech (Sarasota, FL, February-March 2014).
35. Ballard, K. J., Wambaugh, J. L., Duffy, J. R., Layfield, C., **Maas, E.**, Mauszycki, S. C., & McNeil, M. R. (2013). Updated treatment guidelines for acquired apraxia of speech: Systematic review of studies 2004 to 2012. Paper presented at the American Speech-Language-Hearing Association Convention (Chicago, IL, November 2013).

36. **Maas, E.**, & \*Phillips, E. (2013). Phonological representations in children with and without speech sound disorders. Paper presented at the American Speech-Language-Hearing Association Convention (Chicago, IL, November 2013).
37. McAllister Byun, T., **Maas, E.**, & Swartz, M. T. (2013). Motor learning principles in /r/ treatment: Direction of attentional focus. Paper presented at the American Speech-Language-Hearing Association Convention (Chicago, IL, November 2013).
38. **Maas, E.**, \*Mailend, M.-L., & Guenther, F. H. (2013). Feedback and feedforward control in speech production in apraxia of speech and aphasia. Paper presented at the Clinical Aphasiology Conference (Tucson, AZ, May-June 2013).
39. **Maas, E.**, \*Mailend, M.-L., & Guenther, F. H. (2012). The role of auditory feedback during speech production in apraxia of speech. Paper presented at the Biennial Conference on Motor Speech (Santa Rosa, CA, March 2012).
40. **Maas, E.** (2011). Speech planning happens before speech execution: An argument for using reaction time measures in apraxia of speech. Paper presented at the symposium "Apraxia of Speech: Mechanisms and Symptoms" (Groningen, the Netherlands, June 2011).
41. **Maas, E.**, \*Mailend, M.-L., & Guenther, F. H. (2011). The role of auditory feedback in apraxia of speech (AOS): Effects of feedback masking on vowel contrast. Paper presented at the International Conference on Speech Motor Control (Groningen, the Netherlands, June 2011).
42. **Maas, E.**, & Farinella, K. A. (2010). Feedback frequency in treatment for childhood apraxia of speech. Paper presented at the American Speech-Language-Hearing Association Convention (Philadelphia, PA, November 2010).
43. Perkell, J. S., Matthies, M. L., Ghosh, S. S., **Maas, E.**, Hanson, A., Guenther, F. H., Lane, H., Ménard, L., & Tiede, M. (2008). Auditory and somatosensory goals for sibilants. Paper presented at the Acoustical Society of America meeting (Paris, France, June 2008).
44. **Maas, E.**, Robin, D., Magnuson, C., Wright, D., & Ballard, K. (2005). Motor programming in apraxia of speech: central or modality-specific deficit? Paper presented at the American Speech-Language-Hearing Association Convention (San Diego, CA, November 2005).
45. Ballard, K. J., **Maas, E.**, Robin, D. A., Guo, L.-Y. (2005). Treating interarticulator coordination in apraxia of speech with variable practice. Paper presented at the Clinical Aphasiology Conference (Sanibel Island, FL, May-June 2005).
46. Wright, D. L., Magnuson, C. E., Robin, D., **Maas, E.**, & Ballard, K. (2005). Programming timing during movement sequences: An investigation of apraxia of speech. Paper presented at the European Workshop on Movement Science (Vienna, Austria, June 2005).
47. Austermann, S., Robin, D., Ballard, K., **Maas, E.**, & Schmidt, R. (2004). Low versus high frequency feedback in apraxia of speech. Paper presented at the Biennial Conference on Motor Speech (Albuquerque, NM, March 2004).
48. **Maas, E.**, Barlow, J., Robin, D., & Shapiro, L. (2001). Treatment of phonological errors in aphasia and apraxia of speech: Effects of phonological complexity. Paper presented at the Clinical Aphasiology Conference (Santa Fe, NM, June 2001).

49. **Maas, E.**, Barlow, J., Morris, D., Robin, D., & Shapiro, L. (2000). Treatment of phonological errors in aphasia: Effects of complexity. Paper presented at the Annual International Aphasia Rehabilitation Conference (Rotterdam, the Netherlands, August 2000).
50. **Maas, E.** (1998). Zinsbegrip en zinsanagrammen in Broca-patiënten en Wernicke-patiënten. Paper presented at the ANÉLA/VKL/WAP Conference (Amsterdam, the Netherlands, May 1998).

#### Poster Presentations

1. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C., Stoeckel, R., & Wu, J. (2022). A randomized controlled trial of ASSIST for childhood apraxia of speech: Initial findings. Poster presented at the International Conference on Speech Motor Control (Groningen, the Netherlands, August 2022).
2. \*Purcell, C., Wambaugh, J., & **Maas, E.** (2022). A comparison of Sound Production Treatment and Metrical Pacing Therapy for apraxia of speech. Poster presented at the International Conference on Speech Motor Control (Groningen, the Netherlands, August 2022).
3. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C., Niculae-Caxi, T., Stoeckel, R., & Wu, J. (2022). Virtual ASSIST speech therapy for childhood apraxia of speech (CAS): Effects of intensity on caregiver-rated functional outcomes. Poster presented at the Apraxia Kids National Conference (Las Vegas, NV, July 2022).
4. \*Keller, S., & **Maas, E.** (2022). Self-reported communication attitudes of children with childhood apraxia of speech. Poster presented at the Apraxia Kids National Conference (Las Vegas, NV, July 2022).
5. \*Beiting, M., Iuzzini-Seigel, J., & **Maas, E.** (2022). Speech perception abilities of children with CAS: Preliminary findings. Poster presented at the Apraxia Kids National Conference (Las Vegas, NV, July 2022).
6. McCabe, P., Preston, J., **Maas, E.**, Purcell, A., Thomas, D., Murray, E., Heard, R., Cronin, P., & Gomez, M. (2022). Dynamic Temporal and Tactile Cueing: A protocol for a two phase randomised control trial. Poster presented at the Speech Pathology Australia National Conference (Melbourne, Australia, May 2022).
7. \*Purcell, C., Wambaugh, J., & **Maas, E.** (2022). A comparison of Sound Production Treatment and Metrical Pacing Technique for apraxia of speech. Poster presented at the Clinical Aphasiology Conference (Wrightsville Beach, NC, May 2022)
8. \*Keller, S., & **Maas, E.** (2022). Self-reported communication attitudes of children with childhood apraxia of speech. Poster presented at the 21<sup>st</sup> Biennial Conference on Motor Speech (Charleston, SC, February 2022).
9. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C., Niculae-Caxi, T., Stoeckel, R., & Wu, J. (2022). Intensity of virtual ASSIST speech therapy for childhood apraxia of speech: Preliminary findings from caregiver-rated functional outcomes. Poster presented at the 21<sup>st</sup> Biennial Conference on Motor Speech (Charleston, SC, February 2022).
10. **Maas, E.**, \*Mahoney, P., DeDe, G., & Kohen, F. (2022). Effects of feedback type in script training for apraxia of speech (AOS). Poster presented at the 21<sup>st</sup> Biennial Conference on Motor Speech (Charleston, SC, February 2022).

11. \*Beiting, M., Iuzzini-Seigel, J., & **Maas, E.** (2022). Speech perception abilities among children with childhood apraxia of speech: Preliminary findings. Poster presented at the 21<sup>st</sup> Biennial Conference on Motor Speech (Charleston, SC, February 2022).
12. **Maas, E.**, \*Potkovic, G., DeDe, G., & Kohen, F. (2022). Self-controlled vs. clinician-controlled feedback in treatment for apraxia of speech. Poster presented at the 21<sup>st</sup> Biennial Conference on Motor Speech (Charleston, SC, February 2022).
13. McCabe, P., Preston, J., **Maas, E.**, Purcell, A., Thomas, D., Murray, E., Gomez, M., Heard, R., & Cronin, P. (2022). Protocol for a two-arm cross-over randomized control trial examining Dynamic Temporal and Tactile Cueing (DTTC) and usual care in childhood apraxia of speech treatment. Poster presented at the 21<sup>st</sup> Biennial Conference on Motor Speech (Charleston, SC, February 2022).
14. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C., Stoeckel, R., & Wu, J. (2021). Making an impact: Functional outcomes following treatment for childhood apraxia of speech. Poster presented at the 2021 National Conference on Apraxia of Speech (virtual, July 2021).
15. \*Spencer, C., Vannest, J., Redle Sizemore, E., Preston, J. L., **Maas, E.**, McAllister, T., Whalen, D. H., Tiede, M., & Boyce, S. (2021). Functional connectivity in children with RSSD. Poster presented at the Boston Speech Motor Control Symposium (Boston, MA, June 2021).
16. Hoover, E., DeDe, G., & **Maas, E.** (2021). Conversation Treatment: What's in a narrative? Poster presented at the Clinical Aphasiology Conference (virtual, May 2021).
17. \*Spencer, C., Vannest, J., Boyce, S., **Maas, E.**, Preston, J., & Redle, E. (2020). Neural changes in children with residual speech sound disorder (RSSD) after ultrasound biofeedback therapy. Poster presented at the 12<sup>th</sup> annual International Seminar on Speech Production (virtual, December 2020).
18. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C., Stoeckel, R., & Wu, J. (2020 - accepted). Parent-rated functional outcomes from a randomized controlled trial for childhood apraxia of speech (CAS). Paper accepted for the American Speech-Language Hearing Association Convention (San Diego, CA, November 2020). *CANCELED due to COVID-19.*
19. Hoover, E., DeDe, G., & **Maas, E.** (2020 - accepted). Conversation Treatment: What's in a narrative? Poster accepted for the Clinical Aphasiology Conference (Hawaii, HI, May 2020). *CANCELED due to COVID-19.*
20. **Maas, E.**, Caspari, S., \*Beiting, M., Gildersleeve-Neumann, C., Stoeckel, R., & Wu, J. (2020). Parent-rated functional outcomes of treatment for childhood apraxia of speech: Preliminary findings from a randomized controlled trial. Poster presented at the 20<sup>th</sup> Biennial Conference on Motor Speech (Santa Barbara, CA, February 2020).
21. \*Beiting, M., & **Maas, E.** (2020). Autism-centered therapy for childhood apraxia of speech. Poster presented at the 20<sup>th</sup> Biennial Conference on Motor Speech (Santa Barbara, CA, February 2020).
22. \*Spencer, C., Vannest, J., **Maas, E.**, Preston, J., Redle, E., & Boyce, S. (2020). Neuroimaging of the Syllable Repetition Task in children with residual speech sound disorder (RSSD). Poster presented at the 20<sup>th</sup> Biennial Conference on Motor Speech (Santa Barbara, CA, February 2020).
23. \*Beiting, M., & **Maas, E.** (2019). Autism-Centered Therapy for Childhood Apraxia of Speech. Poster presented at the American Speech-Language-Hearing Association Convention (Orlando, FL, November 2019).

24. \*Beiting, M., & **Maas, E.** (2019). Autism-Centered Therapy for Childhood Apraxia of Speech. Poster presented at the Eleanor M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders (Philadelphia, PA, September 2019).
25. Murray, E., Iuzzini-Seigel, J., **Maas, E.**, Terband, H. & Ballard, K. (2019) Diagnosis of childhood apraxia of speech versus other speech sound disorders: A systematic review. Poster presented at the Speech Pathology Australia conference (Brisbane, Australia, June 2019).
26. **Maas, E.**, & \*Sanwald, T. (2019). Priming in apraxia of speech and aphasia: Preparing sounds or articulator movements? Poster accepted for the Clinical Aphasiology Conference (Whitefish, MT, May-June 2019). *WITHDRAWN due to schedule conflict.*
27. \*Leach, C., Martin, N., Kohen, F., & **Maas, E.** (2019). Effects of rapid versus standard word presentation treatment in letter-by-letter readers. Poster presented at the Clinical Aphasiology Conference (Whitefish, MT, May-June 2019).
28. \*Beiting, M., \*Mailend, M.-L., \*Gross, L., & **Maas, E.** (2018). Development of speech motor control: Evidence from coarticulation in adults, typical, and speech disordered children. Poster presented at the American Speech-Language-Hearing Association Convention (Boston, MA, November 2018).
29. \*Sanwald, T., & **Maas, E.** (2018). Phonological versus speech motor priming in apraxia of speech and aphasia. Poster presented at the American Speech-Language-Hearing Association Convention (Boston, MA, November 2018).
30. Hoover, E. L., DeDe, G., & **Maas, E.** (2018). Effects of group size on conversation treatment outcomes: results of standardized testing. Poster presented at the International Aphasia Rehabilitation Conference (Aveiro, Portugal, September 2018).
31. \*van Zelst, A., & **Maas, E.** (2018). Is timing really everything? Absolute and relative timing of speech in children with and without speech sound disorders. Poster presented at the Biennial Conference on Motor Speech (Savannah, GA, February 2018).
32. Terband, H., Maassen, B., & **Maas, E.** (2018). A model of speech development and disorders for diagnosis and treatment planning. Poster presented at the Biennial Conference on Motor Speech (Savannah, GA, February 2018).
33. \*van Zelst, A., & **Maas, E.** (2017). Speech timing in children with and without speech sound disorders. Poster presented at the American Speech-Language-Hearing Association Convention (Los Angeles, CA, November 2017).
34. \*Mailend, M.-L., **Maas, E.**, & Beeson, P. (2017). Examining the articulatory buffer in apraxia of speech. Poster presented at the International Conference on Speech Motor Control (Groningen, the Netherlands, July 2017).
35. \*van Zelst, A., & **Maas, E.** (2017). Speech timing in children with and without speech sound disorders: Acoustic measures of absolute and relative timing accuracy. Poster presented at the International Conference on Speech Motor Control (Groningen, Netherlands, July 2017).
36. **Maas, E.**, & \*Mailend, M.-L. (2017). Speech motor planning in apraxia of speech and aphasia: Effects of auditory distractors on vowel acoustics. Poster presented at the Clinical Aphasiology Conference (Snowbird, UT, May-June 2017).

37. \*Cochran, E., \*Soghomonian, A., \*Nally, A., Goss, M., **Maas, E.**, & Garcia, F. (2016). "Chata," "Kata," or "Casa?": Assessment & treatment of childhood apraxia of speech in a dual language learner. Poster presented at the American Speech-Language-Hearing Association Convention (Philadelphia, PA, November 2016).
38. \*Mailend, M.-L., **Maas, E.**, & Beeson, P. M. (2016). Examining the speech motor planning buffer in apraxia of speech and aphasia. Poster presented at the Annual Eleanor M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders (Philadelphia, PA, September 2016).
39. **Maas, E.**, & \*Mailend, M.-L. (2016). Fricative contrast and coarticulation in children with and without speech sound disorders. Poster presented at the Biennial Conference on Motor Speech (Newport Beach, CA, March 2016).
40. \*Mailend, M.-L., **Maas, E.**, & Beeson, P. M. (2016). Phonetic similarity effects in apraxia of speech. Poster presented at the Biennial Conference on Motor Speech (Newport Beach, CA, March 2016).
41. Powers, C., Gildersleeve-Neumann, C. E., **Maas, E.**, Jakielski, K. J., & Stoeckel, R. (2015). Investigating amount and intensity of practice in treatment of childhood apraxia of speech. Poster presented at the American Speech-Language-Hearing Association Convention (Denver, CO, November 2015).
42. \*Mailend, M.-L., **Maas, E.**, & Forster, K. I. (2014). Phonetic similarity effects in masked priming. Poster presented at the International Workshop on Language Production (Geneva, Switzerland, July 2014).
43. McAllister Byun, T., Swartz, M. T., & **Maas, E.** (2014). Direction of attentional focus in speech-motor learning: Evidence from biofeedback intervention. Poster presented at the Biennial Conference on Motor Speech (Sarasota, FL, March 2014).
44. **Maas, E.**, & \*Phillips, E. (2013). Segmental or holistic phonological representations in children with and without speech sound disorders (SSD)? Evidence from a mispronunciation detection task. Poster presented at the Symposium on Research in Child Language Disorders (Madison WI, June 2013).
45. McAllister Byun, T., Richtsmeier, P., & **Maas, E.** (2013). Covert contrast in child phonology is not necessarily extragrammatical. Poster presented at the Annual Meeting of the Linguistic Society of America (Boston, MA, January 2013).
46. \*Mailend, M.-L., & **Maas, E.** (2012). Speech motor planning in the face of distraction: Evidence from apraxia of speech. Poster presented at the International Workshop on Language Production (New York, NY, July 2012).
47. **Maas, E.**, \*Tellez, A.-A., & \*Mailend, M.-L. (2012). Phonological planning in children with and without speech sound disorders. Poster presented at the Symposium on Research in Child Language Disorders (Madison WI, June 2012).
48. \*Mailend, M.-L., & **Maas, E.** (2012). Apraxia of speech: Impaired access to motor programs or impaired motor programs? Poster presented at the Clinical Aphasiology Conference (Lake Tahoe, CA, May 2012). (*NIDCD Research Symposium in Clinical Aphasiology Student Fellowship to 1<sup>st</sup> author*)
49. **Maas, E.**, \*Mailend, M.-L., & \*Swanson, L. T. (2012). Anticipatory coarticulation in typically developing children and in children with speech disorders. Poster presented at the Biennial Conference on Motor Speech (Santa Rosa, CA, March 2012).

50. \*Gutiérrez, K., **Maas, E.**, & Ballard, K. J. (2011). Phonological priming in apraxia of speech and aphasia. Poster presented at the Clinical Aphasiology Conference (Ft. Lauderdale, FL, May-June, 2011). (*NIDCD Research Symposium in Clinical Aphasiology Student Fellowship* award to 1<sup>st</sup> author)
51. \*Lopez, A. A., & **Maas, E.** (2011). Vowel errors and their treatment in childhood apraxia of speech. Poster presented at the Annual Convention of the Arizona Speech-Language-Hearing Association (Phoenix, AZ, April 2011).
52. \*Tellez, A.-A., & **Maas, E.** (2011). Phonological representations in speech planning in children with speech disorders. Poster presented at the Annual Convention of the Arizona Speech-Language-Hearing Association (Phoenix, AZ, April 2011).
53. \*Butalla, C. E., Farinella, K. A., & **Maas, E.** (2011). Feedback frequency effects in treatment for childhood apraxia of speech. Poster presented at the Annual Convention of the Arizona Speech-Language-Hearing Association (Phoenix, AZ, April 2011).
54. **Maas, E.**, & Farinella, K. A. (2010). Random versus blocked practice in treatment for childhood apraxia of speech. Poster presented at the Conference on Motor Speech (Savannah, GA, 3/2010).
55. **Maas, E.**, Robin, D. A., Steinhauer, V., Ballard, K. J., Magnuson, C. E., & Wright, D. L. (2006). Motor programming in apraxia of speech: A reaction time approach. Poster presented at the International Conference on Speech Motor Control (Nijmegen, the Netherlands, June 2006).
56. **Maas, E.**, Robin, D. A., Steinhauer, V., Magnuson, C. E., Wright, D. L., & Ballard, K. J. (2006). Apraxia of speech as an impairment of preprogramming. Poster presented at the Clinical Aphasiology Conference (Ghent, Belgium, June 2006).
57. Rhee, J. H., Robin, D. A., **Maas, E.**, & Wright, D. L. (2006). Motor programming during speech articulation: An application of Klapp's two-process model. Poster presented at the annual conference of the North American Society for the Psychology of Sport and Physical Activity (Denver, CO, June, 2006).
58. Wright, D. L., Robin, D. A., **Maas, E.**, & Magnuson, C. E. (2006). A general motor programming deficit contributes to apraxia of speech. Poster presented at the annual conference of the North American Society for the Psychology of Sport and Physical Activity (Denver, CO, June, 2006).
59. Ballard, K. J., **Maas, E.**, & Robin, D. A. (2006). Treating control of voicing in apraxia of speech with variable practice. Poster presented at the Western Australia 2006 Speech Pathology Australia National Conference, Frontiers (Fremantle, Australia, May 2006).
60. **Maas, E.**, Robin, D. A., Ballard, K. J., Magnuson, C. E., & Wright, D. L. (2006). Speech motor programming in apraxia of speech: A reaction time approach. Poster presented at the Biennial Conference on Motor Speech (Austin, TX, March 2006).
61. Austermann, S. N., Robin, D. A., **Maas, E.**, Ballard, K. J., & Schmidt, R. A. (2006). Principles of motor learning applied to the treatment of acquired apraxia of speech: Feedback frequency and timing. Poster presented at the Biennial Conference on Motor Speech (Austin, TX, March 2006).
62. Freedman, S. E., **Maas, E.**, Caligiuri, M. P., Wulf, G., & Robin, D. A. (2006). Oral-motor learning, retention, and transfer as a function of attentional focus. Poster presented at the Biennial Conference on Motor Speech (Austin, TX, March 2006).



63. Freedman, S. **Maas, E.**, Wulf, G., Caligiuri, M., & Robin, D. (2005). Effects of attentional focus on oral motor control and learning. Poster presented at the American Speech-Language-Hearing Association Convention (San Diego, CA, November 2005).
64. **Maas, E.**, Robin, D. A., Magnuson, C. E., Wright, D. L., & Ballard, K. (2005). Motor programming in apraxia of speech and aphasia. Poster presented at the Clinical Aphasiology Conference (Sanibel Island, FL, June 2005). (*NIDCD Research Symposium in Clinical Aphasiology Student Fellowship* award to 1<sup>st</sup> author)
65. Austermann, S., Robin, D. A., **Maas, E.**, Ballard, K., & Schmidt, R. (2005). The effect of feedback delay on the treatment of acquired apraxia of speech. Poster presented at the Clinical Aphasiology Conference (Sanibel Island, FL, June 2005).
66. Freedman, S., **Maas, E.**, Wulf, G., Caligiuri, & Robin, D. A. (2005). Effects of attentional focus on oral-motor control and learning. Poster presented at the Clinical Aphasiology Conference (Sanibel Island, FL, June 2005).
67. Austermann, S., **Maas, E.**, Robin, D., Ballard, K., & Schmidt, R. (2004). The role of feedback frequency in the treatment of acquired apraxia of speech. Poster presented at the Clinical Aphasiology Conference (Park City, UT, May 2004). (*NIDCD Research Symposium in Clinical Aphasiology Student Fellowship* award to 1<sup>st</sup> and 2<sup>nd</sup> author)
68. de Goede, D., Wester, F., Bastiaanse, R., **Maas, E.**, den Ouden, D. B., Shapiro, L., & Swinney, D. (2003). Verb movement and gap-filling in Dutch sentence processing. Poster presented at the Verb and Sentence Processing in Aphasia Group conference on Verbs: Properties, Processes and Problems (London, UK, April 2003).
69. Wester, F., de Goede, D., Bastiaanse, R., **Maas, E.**, den Ouden, D. B., Shapiro, L., & Swinney, D. (2003). Verb activation in on-line sentence processing. Poster presented at the Annual CUNY Conference on Human Sentence Processing (Cambridge, MA, March 2003).
70. **Maas, E.**, Shapiro, L., & Swinney, D. (2003). The nature of gap-filling: syntactic or semantic order? Poster presented at the Annual CUNY Conference on Human Sentence Processing (Cambridge, MA, March 2003).
71. Bastiaanse, R. & **Maas, E.** (1998). Verb movement in agrammatic production. Poster presented at the Annual Academy of Aphasia (Santa Fe, NM, November 1998).

### **Professional Education/Outreach Presentations, Workshops, and Colloquia**

1. **Maas, E.** (2022). How to ASSIST your dragon 2: A clinical trial of treatment for childhood apraxia of speech (CAS). Presentation at the Temple University Communication Sciences and Disorders Research Blitz (Philadelphia, PA, August 2022).
2. **Maas, E.** (2022). Studying speech disorders: Research in the SLAB Lab and advice for new scientists. Invited presentation at the Diamond Research Scholarship program 2022 Kick-off (Philadelphia, PA, May 2022).
3. \*Keller, S., & **Maas, E.** (2022). Understanding the communication attitudes of children with childhood apraxia of speech. Poster presented virtually at Temple University's College of Public Health Research and Evidence Based Practice Day (Philadelphia, PA, April 2022).

4. \*Keller, S., & **Maas, E.** (2022). Self-reported communication attitudes of children with childhood apraxia of speech. Oral presentation at Temple University's Symposium for Undergraduate Research and Creativity (Philadelphia, PA, April 2022).
5. **Maas, E.** (2021). An epic tale of castles, dragons, and magic: A phase 1 randomized clinical trial of ASSIST for childhood apraxia of speech. Invited presentation at the University of Wisconsin-Madison Department of Communication Sciences and Disorders seminar (virtual, October 2021).
6. **Maas, E.**, Simon-Cerejido, G., Sharma, A., & Grasso, S. (2021). Thinking about a PhD? Information for prospective doctoral students. Oral session as part of ASHA's Research and Scientific Affairs Committee series on professional development, presented at the American Speech-Language-Hearing Association Convention (Washington, DC, November 2021).
7. **Maas, E.** (2021). 2021: A Space camp Odyssey for children with childhood apraxia of speech (CAS). Presentation at the Temple University Communication Sciences and Disorders Research Blitz (Philadelphia, PA, August 2021)
8. **Maas, E.** (2021). How to ASSIST your dragon: Parent-rated outcomes of an intensive treatment for childhood apraxia of speech. Presentation at the Temple University Communication Sciences and Disorders proseminar (virtual, March 2021).
9. **Maas, E.** (2021). Speech disorders: What's psycholinguistics got to do with it? Invited presentation at the Temple University Linguistics Club (virtual, March 2021).
10. **Maas, E.**, & \*Beiting, M. (2021). What's brewing at the SLAB Lab? Recent and ongoing research on childhood apraxia of speech. Invited presentation at the Greater Philadelphia Apraxia Support Group (virtual, February 2021).
11. **Maas, E.** (2020). Using psycholinguistic reaction time methods to understand speech disorders. Invited presentation at the Integrated Language Science and Technology Seminar, University of Pennsylvania (October 2020).
12. **Maas, E.** (2020). Of castles and dragons: A phase 1 randomized controlled trial of ASSIST, a treatment program for childhood apraxia of speech (CAS). Invited presentation at the Language Neurobiology Laboratory, UCSF Memory and Aging Center and UCSF Dyslexia Center (Sept. 2020).
13. **Maas, E.** (2020). ASSISTing communicative participation in children with childhood apraxia of speech (CAS). Presentation at the Temple University Communication Sciences and Disorders Research Blitz (Philadelphia, PA, August 2020).
14. **Maas, E.** (2020). Principles of motor learning and childhood apraxia of speech: A (hopefully) gentle introduction. Invited webinar for Apraxia Kids (June, 2020).
15. Caspari, S., \*Beiting, M., & **Maas, E.** (2020 - accepted). "ASSIST"ing graduate students: Fostering success in a research practicum. Paper accepted for the 2020 National Conference on Childhood Apraxia of Speech (Plano, TX, July 2020). *CANCELED due to COVID-19.*
16. **Maas, E.** (2019). Apraxia of speech: Recent developments in diagnosis and treatment. Invited presentation at Cooper University Hospital (Camden, NJ, November 2019).
17. **Maas, E.** (2019). How to ASSIST your dragon: A clinical trial of treatment for childhood apraxia of speech (CAS). Presentation at the Temple University Communication Sciences and Disorders Research Blitz (Philadelphia, PA, August 2019).

18. **Maas, E.** (2019). Principles of motor learning in treatment for CAS: Updates, new findings, and future directions. Paper presented at the National Conference on Childhood Apraxia of Speech (Pittsburgh, PA, July 2019).
19. **Maas, E.** (2019). Interpreting the evidence in evidence-based practice: A tutorial on single-case experimental design treatment research. Paper presented at the National Conference on Childhood Apraxia of Speech (Pittsburgh, PA, July 2019).
20. \*van Zelst, A., & **Maas, E.** (2018). Is timing really everything? Absolute and relative timing of speech in children with and without speech sound disorders. Poster presented at the College of Public Health Research Day (Philadelphia, PA, April 2018)
21. **Maas, E.** (2018). More BANG for your buck: Amount and intensity of treatment for childhood apraxia of speech. Presentation at the Communication Sciences and Disorders Proseminar, Temple University (Philadelphia, PA, March 2018).
22. **Maas, E.** (2018). Apraxia of Speech (AOS): A problem in speech motor planning. Presentation at the Philadelphia Aphasia Community at Temple (PACT) Second Saturday Community Group (Philadelphia, PA, February 2018).
23. \*van Zelst, A., & **Maas, E.** (2017). Speech timing as a potential measure for differential diagnosis of speech disorders in children. Poster presented at the College of Public Health Research Day (Philadelphia, PA, April 2017).
24. **Maas, E.** (2017). Speech planning in apraxia of speech (AOS): Evidence from acoustic and reaction time studies. Invited presentation at New York University's Department of Communicative Sciences and Disorders colloquium (New York City, NY, February 2017).
25. **Maas, E.** (2016). Current research and clinical applications for childhood apraxia of speech. Invited in-service presentation at Children's Hospital of Philadelphia (Philadelphia, PA, December 2016).
26. **Maas, E.** (2016). Current research in the treatment of childhood apraxia of speech. Invited in-service presentation at AGSpeech Language Potential, LLC (Media, PA, September 2016).
27. **Maas, E.** (2016). Evidence-based diagnosis and treatment of childhood apraxia of speech. Invited in-service presentation at School District of Philadelphia (Philadelphia, PA, September 2016).
28. **Maas, E.** (2016). Diagnosis and treatment of childhood apraxia of speech. Invited in-service presentation at Montgomery County Intermediate Unit (Norristown, PA, August 2016).
29. **Maas, E.** (2016). Treatment for apraxia of speech in adults and children. Invited in-service presentation at Jefferson Hospital Outpatient Rehabilitation (Philadelphia, PA, June 2016).
30. **Maas, E.** (2016). Diagnosis and treatment of childhood apraxia of speech. Invited in-service presentation at St. Christopher's Pediatric Therapy (Jenkintown, PA, May 2016).
31. **Maas, E.** (2016). Bang for your buck: Optimizing treatment for childhood apraxia of speech. Presentation at the Communication Sciences and Disorders Proseminar, Temple University (Philadelphia, PA, April 2016).
32. **Maas, E.** (2016). Apraxia of speech: Assessment, diagnosis, and treatment. Invited in-service at the Rehabilitation Institute of Chicago (Chicago, IL, February 2016).

33. **Maas, E.** (2015). Speech planning in apraxia of speech (AOS): Some recent evidence from acoustic and reaction time studies. Invited presentation at Moss Rehabilitation Research Institute (Elkins Park, PA, November 2015)
34. **Maas, E.** (2015). Understanding speech sound disorders in children. Invited in-service presentation at Tucson Unified School District (Tucson, AZ, April 2015).
35. \*Fisk, D., & **Maas, E.** (2015). The size of phonological units in children with speech sound disorders (SSD): Evidence from preparation priming. Poster presented at the University of Arizona Undergraduate Biology Research Program Conference (Tucson, AZ, January 2015).
36. **Maas, E.,** & \*Mailend, M.-L. (2014). Diagnosis of apraxia of speech in children and adults: Current state of the art and considerations for the future. Invited presentation at the University of Arizona's NSSLHA Educational Forum (Tucson, AZ, September 2014).
37. **Maas, E.** (2014). Randomized controlled trials for behavioral interventions: Application to communication disorders. Presentation at the Speech, Language, and Hearing Sciences colloquium, University of Arizona (Tucson, AZ, October 2014).
38. **Maas, E.** (2013). A whirlwind tour of principles of motor learning and their relevance for speech and voice. Presentation for forum organized by graduate students, Department of Speech, Language, and Hearing Sciences, University of Arizona (Tucson, AZ, December 2013).
39. **Maas, E.** (2013). Treatment for childhood apraxia of speech: Some recent evidence. Presentation at the Department of Speech, Language, and Hearing Sciences Open House Homecoming (Tucson, AZ, November, 2013)
40. **Maas, E.,** & \*Phillips, E. (2013). Mispronunciation detection as a window into phonological knowledge. Presentation at the Speech, Language, and Hearing Sciences colloquium, University of Arizona (Tucson, AZ, October 2013).
41. **Maas, E.** (2013). Demystifying the principles of motor learning in speech therapy. Invited presentation, Childhood Apraxia of Speech Association of North America webinar (Sept. 2013).
42. **Maas, E.** (2013). Principles of motor learning in Childhood Apraxia of Speech. Invited presentation, SpeechPathology.com webinar (March 2013).
43. **Maas, E.** (2013). Feedback and feedforward control in apraxia of speech. Presentation at Speech, Language, and Hearing Sciences colloquium, University of Arizona (Tucson, AZ, January 2013).
44. **Maas, E.** (2012). Phonological planning in children with and without speech disorders. Presentation at the Speech, Language, and Hearing Sciences colloquium, University of Arizona (Tucson, AZ, October 2012).
45. **Maas, E.** (2012). Phonological planning in typical development and in children with speech sound disorders. Invited presentation at the Speech Research Laboratory colloquium, Indiana University (Bloomington, IN, June 2012).
46. **Maas, E.** (2012). Speech planning in children with and without speech disorders. Invited presentation at the Speech, Language, and Hearing Sciences colloquium, Purdue University (West Lafayette, IN, June 2012).
47. **Maas, E.,** & \*Gutiérrez, K. (2012). Phonological representations in bilingual speakers. Presentation at Sound Minds, Department of Linguistics, University of Arizona (Tucson AZ, March 2012).

48. **Maas, E.** (2011). Apraxia of speech: Current views on diagnosis and treatment. Invited presentation, SpeechPathology.com webinar (November 2011).
49. **Maas, E.** (2010). It's not what you say, it's how you say it: Studies of speech production. Invited presentation at the Minority Access to Research Careers colloquium (Tucson, AZ, Nov. 2010).
50. \*Lopez, A. A., & **Maas, E.** (2010). Insight into vowel errors and their treatment in childhood apraxia of speech. Poster presented at the University of Arizona Undergraduate Biology Research Program / Summer Research Institute Program (Tucson, AZ, August 2010).
51. \*Tellez, A.-A., & **Maas, E.** (2010). Speech output planning in children: Bigger or smaller units? Poster presented at the University of Arizona Undergraduate Biology Research Program / Minority Health Disparity Program (Tucson, AZ, August 2010).
52. **Maas, E.** (2010). Treating speech production deficits in childhood apraxia of speech. Invited presentation at the Minority Health Disparities colloquium (Tucson, AZ, July 2010).
53. **Maas, E.** (2010). Treating speech production deficits in childhood apraxia of speech: Practice schedules and generalization patterns. Invited presentation at the University of Arizona Linguistics Colloquium (Tucson, AZ, April 2010).
54. **Maas, E.** (2009). Severe articulation disorders. Invited presentation at the L4 Forum, University of Arizona (Tucson, AZ, October 2009).
55. **Maas, E.,** & Farinella, K. A. (2009). Childhood Apraxia of Speech: Diagnosis and treatment. Invited in-service presentation, STARS Student Therapy (Tucson, AZ, October 2009).
56. \*Gutiérrez, K., & **Maas, E.** (2009). Insight on segmental and holistic speech planning in children via auditory priming. Poster presented at the University of Arizona Undergraduate Biology Research Program / Minority Health Disparity Program (Tucson, AZ, August 2009).
57. **Maas, E.** (2009). Conditions of practice in treatment for motor speech disorders. Invited presentation at University of Arizona's NSSLHA Educational Forum (Tucson, AZ, March 2009).
58. **Maas, E.** (2008). Principles of motor learning applied to speech motor learning. Presentation at Speech, Language, and Hearing Sciences colloquium, Univ. of Arizona (Tucson, AZ, Jan. 2008).
59. Ballard, K. J., **Maas, E.,** & Robin, D. A. (2007). Principles of motor learning in treatment of motor speech disorders. Workshop presented at the Speech Pathology Australia National Conference (Sydney, Australia, May 2007).
60. **Maas, E.** (2004). Speech motor programming in apraxia of speech. Invited presentation at the Human Performance Laboratory, Texas A & M University (College Station, TX, March 2004).
61. **Maas, E.** (2003). Factors influencing the efficacy of treatment for acquired language disorders. Invited in-service at Braintree Rehabilitation Hospital (Braintree, MA, March 2003).
62. **Maas, E.** (2002). Psycho gap-filling. Paper presented at the annual Joint Doctoral Program Colloquium, UCSD (San Diego, CA, September 2002).
63. **Maas, E.** (2001). Treatment of sound production errors in aphasia and apraxia of speech: effects of phonological complexity. Paper presented at the annual Joint Doctoral Program Colloquium, SDSU (San Diego, CA, October 2001).
64. **Maas, E.** (2000). Processing recalcitrant pronouns. Paper presented at the annual Joint Doctoral Program Colloquium, UCSD (San Diego, CA, September 2000).

65. **Maas, E.** (1998). Zinsbegrip en zinsanagrammen in Broca-patiënten en Wernicke-patiënten. Paper presented at the TABU-day, Lectures in Linguistics (Groningen, Netherlands, June 1998).

## **TEACHING EXPERIENCE**

### **Instructor**

#### *Graduate Courses*

2019	Topics in Speech, Language, and Hearing Science (doctoral seminar) ( <i>Temple U.</i> )
2016-2022	Foundations and Management of Motor Speech Disorders ( <i>Temple U.</i> )
2012-2013	Introduction to Research Methods in Speech and Hearing Sciences ( <i>U. of Arizona</i> )
2010	Software Applications in SLHS – E-Prime ( <i>U. of Arizona</i> )
2010	Speech Perception (combined with undergraduate section) ( <i>U. of Arizona</i> )
2007	Neuromotor Speech Disorders ( <i>MGH Institute of Health Professions</i> )
2007	Research Design ( <i>MGH Institute of Health Professions</i> )
2006	Language Disorders in Children ( <i>Northeastern University</i> )

#### *Undergraduate Courses*

2017-2021	Introduction to Research Methods in Communication Sciences ( <i>Temple U.</i> )
2017	Topics in Communication Sciences & Disorders – Clinical Phonetics ( <i>Temple U.</i> )
2010-2011	Speech Perception (combined with graduate section 2010) ( <i>U. of Arizona</i> )
2008-2015	Phonetics ( <i>U. of Arizona</i> )
2003-2004	Phonetics ( <i>San Diego State University</i> )

### **Teaching Assistant**

2006	Language as a Cognitive System ( <i>University of California, San Diego</i> )
2004	Speech Instrumentation ( <i>San Diego State University</i> )
2002	Introduction to Cognitive Science ( <i>University of California, San Diego</i> )
2000-2002	Phonetics ( <i>San Diego State University</i> )

### **Guest Lectures**

2022	Speech and Language Disorders: Adults – Principles of Motor Learning ( <i>Temple U.</i> )
2016-2022	Topics in Communication Sciences & Disorders – Apraxia of Speech ( <i>Temple U.</i> )
2017-2018	Topics in Speech, Language, & Hearing – Childhood Apraxia of Speech ( <i>Temple U.</i> )
2015	Foundations and Management of Motor Speech Disorders ( <i>Temple U.</i> )
2015-2016	Foundations and Management in Phonological Disorders ( <i>Temple U.</i> )
2012	Evaluation Process in Speech-Language Pathology ( <i>U. of Arizona</i> )
2010-2011	Introduction to Research Methods in Speech and Hearing Sciences ( <i>U. of Arizona</i> )
2010, 2016-‘17	Normal Bases of Speech Production ( <i>U. of South Carolina; on-line</i> )
2008-2016	Neuromotor Speech Disorders ( <i>U. of Arizona</i> )
2008-2011	Scientific Thinking ( <i>U. of Arizona</i> )
2005-2006	Motor Speech Disorders ( <i>San Diego State University</i> )
2005	Communication Processes & Aging ( <i>San Diego State University</i> )
2004-2005	Neurological Foundations of Cognition ( <i>University of California, San Diego</i> )
2004	Speech and Language Neuroscience ( <i>San Diego State University</i> )
2003-2004	Research Methods ( <i>San Diego State University</i> )
2002	Language Acquisition ( <i>San Diego State University</i> )

## MENTORING EXPERIENCE

### Dissertation Committees

#### Chair

- 2021- **Meghan Littlejohn** Temple University
- 2022 **Molly Beiting** Temple University  
*The Impact of Individual-Level Factors on Progress in Speech Therapy for Children with Childhood Apraxia of Speech (CAS)*  
 (funded by NIH F31 DC018723)
- 2016-'18 **Anne van Zelst** (withdrawn) Temple University
- 2017 **Marja-Liisa Mailend** University of Arizona  
*Speech Motor Planning in Apraxia of Speech and Aphasia*  
 (funded by NIH F31 DC014375)

#### Committee Member

- 2021 **Caroline Spencer** University of Cincinnati  
 Chair: Suzanne Boyce  
*Neural Mechanisms of Speech Production in Intervention for Residual Speech Sound Disorders*  
 (funded by NIH F31 DC017654)
- 2016 **Salomé Geertsema** University of Pretoria (South Africa)  
 Chair: Anita van der Merwe  
*Application of Principles of Motor Learning in the Treatment of Speech Sound Disorders*
- 2015 **Christina Meyers** University of Arizona  
 Chair: Elena Plante  
*Investigation of Treatment Dose Schedule for Children with Specific Language Impairment*
- 2015 **Ka Yu (Kelvin) Chong** University of Arizona  
 Chair: Tom Bever  
*The Role of Cognitive Complexity, Task Sequencing and Modality in Picture Difference Tasks*
- 2011 **Jessamyn Schertz** University of Arizona  
 Chair: Diana Archangeli  
*More or Less Voiced: Exaggerating Featural Contrasts in English Stops and Vowels*

#### External Examiner

- 2022 **Monica Lancheros** University of Geneva (Switzerland)  
 Chair: Marina Laganaro  
*Relationship between Speech and other Oromotor Gestures*
- 2021 **Cassidy Fleming** University of Alberta (Canada)  
 Co-Chairs: Teresa Paslawski & Jacqueline Cummine  
*Elevating Childhood Apraxia of Speech: Integrating Theory, Research, and Practice*



- 2020 **Siu Chung (Eric) Lo** City University of Hong Kong (China)  
Chair: Wing Kuen (Andus) Wong  
*Development of Speech Specific Reinvestment Scale*
- 2018 **Anne Marie Lewis** Curtin University (Australia)  
Chair: Neville Hennessey  
*Phonological and Speech Motor Abilities in Children with Childhood Apraxia of Speech and Phonological Disorder*
- 2017 **Stacie Park** University of Queensland (Australia)  
Chair: Deborah Theodoros  
*Be Clear: A Novel Treatment for Non-progressive Dysarthria*
- 2013 **Elizabeth Murray** University of Sydney (Australia)  
Chair: Patricia McCabe  
*Treatment Efficacy for Children with Childhood Apraxia of Speech*

### **Master's Thesis Committees**

#### Chair

- 2022 **Shina Cook** Temple University  
*The Role of Frustration in Intensive Treatment of Childhood Apraxia of Speech*
- 2020 **Alison Miler** Temple University  
*Effects of Childhood Apraxia of Speech Treatment on Intelligibility*
- 2020 **Lauren Condoluci** Temple University  
*The Active Ingredients of Integral Stimulation Treatment: The Efficacy of Auditory, Visual, and Auditory-Visual Cues for Treatment of Childhood Apraxia of Speech*
- 2020 **Tori Tone** Temple University  
*The Test of Time: Using Motor-Speech Timing Errors to Differentiate Children With and Without Speech Sound Disorders*
- 2020 **Grace Potkovic** Temple University  
*Feedback Control in Treatment for Apraxia of Speech*
- 2019 **Phillip Mahoney** Temple University  
*Script Training and Feedback Type in the Treatment of Apraxia of Speech*
- 2017 **Mackenzie Welsh** Temple University  
*A Systematic Examination of Practice Amount in Childhood Apraxia of Speech (CAS) Treatment using an Integral Stimulation Approach*
- 2017 **Nicolette Kovacs** Temple University  
*Treatment of Childhood Apraxia of Speech: A Single-Case Experimental Design Study of Intensity of Treatment*

2011 **Jenna Beltrami** University of Arizona  
*Changes in Vowel Space after Treatment in Childhood Apraxia of Speech*

2011 **Christine Butalla** University of Arizona  
*The Effects of Feedback Frequency in Childhood Apraxia of Speech: Retention and Transfer*

#### Committee Member

2021- **Madison Smith** University of New Hampshire  
Chair: Donald Robin  
*Speech Motor Programming in Children with Speech Sound Disorders*

2022 **Lauren Colletti** Temple University  
Chair: Elizabeth Heller Murray  
*Voice Onset Time in Children with and without Vocal Fold Nodules*

2019 **Corinne Leach** Temple University  
Chair: Nadine Martin  
*Manipulating Temporal Components during Single-Word Processing to Facilitate Access to Stored Orthographic Representations in Letter-By-Letter Readers*

2018 **Rebecca Goldenberg** Temple University  
Chair: Gayle DeDe  
*Effects of Conversational Group Treatment on Patient-Reported Outcome Measures of Communication and Social Isolation*

2017 **Bridget Parkes** Temple University  
Chair: Gayle DeDe  
*Is Verb Network Strengthening Treatment (VNeST) Effective at a Lower Dosage?*

2016 **Elizabeth Brophy** Temple University  
Chair: Gayle DeDe  
*Generalization across Verb Types after Verb Network Strengthening Treatment (VNeST): A Treatment Study*

2014 **Kimberly Neely** University of Arizona  
Chair: Brad Story  
*Variation in F2 Trajectories as Evidence for Articulatory Gesture Overlap: A Modeling Study*

#### Undergraduate Honors Theses

2022- **Lily Rossi** Temple University  
*Acoustic Measures of Lexical Stress Patterns in Childhood Apraxia of Speech*

2022 **Sydney Jones** Temple University  
*Demographic Representation in the Childhood Apraxia of Speech Literature*

2021	<b>Sydney Keller</b> <i>Self-Reported Communication Attitudes of Children with Childhood Apraxia of Speech</i>	Temple University
2020	<b>Brianna Kaplan</b> <i>A Review of the Effectiveness of Phonological Awareness Treatment Approaches for Childhood Apraxia of Speech</i>	Temple University
2020	<b>Hannah Braid</b> <i>A Systematic Approach to Outcome Measures in Treatment of Childhood Apraxia of Speech</i>	Temple University
2020	<b>Kyra Skoog</b> <i>Predicting Intelligibility: An Investigation of Speech Sound Accuracy in Childhood Apraxia of Speech</i>	Temple University
2017	<b>Helen Vradelis</b> <i>Intelligibility Measures for Children with Childhood Apraxia of Speech: A Review</i>	Temple University
2012	<b>Leah Swanson</b> <i>Anticipatory Coarticulation in Typically Developing Children and in Children with Speech Disorders</i>	University of Arizona
2011	<b>Erin Chute</b> <i>The Nature of Phonological Representations in Adults and Children: Evidence of Mispronunciation Detection</i>	University of Arizona

### Undergraduate Student Mentoring (only formal mentorship programs listed)

#### Temple University

2022	<b>Lily Rossi</b>	<i>Diamond Research Scholars (DRS) program</i>
2021	<b>Sydney Keller</b>	<i>Diamond Research Scholars (DRS) program</i>
2021	<b>Steven Burchett</b>	<i>Diamond Peer Teacher program (CSCD-2201)</i>
2019	<b>Kyra Skoog</b>	<i>Diamond Research Scholars (DRS) program</i>
2018	<b>Talia Irgangladen</b>	<i>Diamond Research Scholars (DRS) program</i>
2018	<b>Julia Cogdell</b> (student declined award)	<i>Diamond Research Scholars (DRS) program</i>

#### American Speech-Language-Hearing Association (ASHA)

2019	<b>Kyra Skoog</b>	<i>Students Preparing for Academic &amp; Research Careers (SPARC) award</i>
2017	<b>Taryn Sanwald</b>	<i>Students Preparing for Academic &amp; Research Careers (SPARC) award</i>
2011	<b>Anna-Alyse Tellez</b>	<i>Students Preparing for Academic &amp; Research Careers (SPARC) – not awarded</i>

#### University of Arizona

2011-2015	<b>Jessie Hogan, Monica Martinez, Dasha McKinney</b> <b>Kevin Mollica, Pauline Muñoz</b>	<i>Arizona Assurance Scholars (AZA) program</i>
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2015	<b>Danielle Fisk</b>	Undergraduate Biology Research Program (UBRP) program
2014	<b>Leah Swanson</b>	
2011	<b>Anna-Alyse Tellez</b>	
2013	<b>Lizbeth Alvarez, Fernanda Bueno</b>	Minority Health Disparities (MHD) program
2011	<b>Anna-Alyse Tellez</b>	
2012	<b>Amie Wolter</b>	Arizona Science, Engineering, & Math Scholars (ASEMS) program
2011	<b>Mun Aw</b>	
2012	<b>Lizbeth Alvarez</b>	Student Affairs Research (STARS) program
2010	<b>Keila Gutiérrez</b>	Biomedical Research Abroad: Vistas Open! (BRAVO) program
2010	<b>Amanda Lopez</b>	Summer Research Institute (SRI) program
2010	<b>Anna-Alyse Tellez</b>	Minority Access to Research Careers (MARC) program
2009	<b>Keila Gutiérrez</b>	McNair Achievement program

### **High School Student Mentoring**

University High School / University of Arizona

2012	<b>Emily Tran</b>	Southern Arizona Regional Science & Engineering Fair (SARSEF)
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### **External Mentoring**

2021-2022	<b>Jill Thorson</b> (Assistant Professor) Up-2-NIH program	University of New Hampshire
2020-2022	<b>Charlotte Purcell</b> (SLPD Candidate) Capstone Research Chair <i>A Comparison of Sound Production Treatment and Metrical Pacing Technique for Apraxia of Speech</i>	Rocky Mountain University of Health Professions

ASHA Mentoring Academic Research Careers (MARC) program

2021-2022	<b>Qiang Li</b> (Assistant Professor)	Fort Hays State University
2021-2022	<b>Claudia Abbiati</b> (Ph.D. student)	University of Vermont
2020-2021	<b>Victoria Scharp</b> (Assistant Professor)	Idaho State University
2019-2020	<b>Jisook Park</b> (postdoctoral fellow)	University of Toronto
2019-2020	<b>Lynsey Keator</b> (Ph.D. student)	University of South Carolina
2018-2019	<b>Suzanne King</b> (Assistant Professor)	University of Louisville
2018-2019	<b>Elgustus Polite</b> (Assistant Professor)	Xavier University of Louisiana

ASHA Advancing Academic Research Careers (AARC) program

2017-2018	<b>Ramesh Kaipa</b> (Assistant Professor)	Oklahoma State University
2016-2017	<b>Alison Scheer-Cohen</b> (Assistant Professor)	California State University, San Marcos

ASHA Lessons for Success program

2022	<b>Robyn Croft</b> (Ph.D. Candidate)	University of Texas, Austin
	<b>Heather Kabakoff</b> (postdoctoral fellow)	New York University
2021	<b>Nicole Etter</b> (Assistant Professor)	Pennsylvania State University
	<b>Megan Willi</b> (Assistant Professor)	California State University, Chico

ASHA Pathways program

2018	<b>Ramesh Kaipa</b> (Assistant Professor)	Oklahoma State University
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ASHA Students to Empowered Professionals (STEP) program

2021	<b>Meng McLendon</b> (Masters student)	Howard University
2018	<b>Shawna Moreland</b> (undergraduate student)	Texas Women's University

ASHA PROmoting the next GENERation of Researchers (PROGENY) program

2018	<b>Elaina Eskins</b> (undergraduate student)	Bowling Green State University
	<b>Deborah Hong</b> (undergraduate student)	California State University, Fullerton
	<b>Kathrin Roberts</b> (undergraduate student)	University of Nebraska, Kearney
2017	<b>Keziah St. Louis</b> (undergraduate student)	New York University
2016	<b>Taylor Robbins</b> (undergraduate student)	University of Toledo

Conference on Motor Speech mentorship program

2022	<b>Kristen Allison</b> (Assistant Professor)	Northeastern University
	<b>Matthias Heyne</b> (Postdoctoral Fellow)	University of Pittsburgh

## **REVIEWING and EDITORIAL EXPERIENCE**

### **Grant review**

Grant review panel chair

*Childhood Apraxia of Speech Association of North America (CASANA) (2012)*

Ad hoc grant reviews

*American Speech-Language-Hearing Foundation (ASHF)*

*Apraxia Kids / Childhood Apraxia of Speech Association of North America (CASANA)*

*Fonds Wetenschappelijk Onderzoek – Vlaanderen (Research Foundation Flanders)*

*Lee Silverman Voice Treatment Foundation (LSVT Foundation)*

*NIH – Center for Scientific Review (CSR), Motor Function, Speech and Rehabilitation Study Section*

*NIH – National Institute of Neurological Disorders and Stroke (NINDS) Stroke Special Emphasis Panel*

*NIH – National Institute of Deafness and Other Communication Disorders (NIDCD) Language and Communication (LCOM) Voice, Speech, and Language Fellowships Special Emphasis Panel*

*National Science Foundation (NSF)*

*Neurological Foundation of New Zealand (NFNZ)*

*PROMPT Institute*

*Technologiestichting STW (Dutch Technology Foundation)*

*Veterans Health Administration Rehabilitation Research & Development – Sensory Systems panel (VA)*

### **Editorial Service**

Associate Editor

*International Journal of Speech-Language Pathology (2018-present)*

Guest Editor

*Journal of Speech, Language, and Hearing Research (2018-2019)*

*American Journal of Speech-Language Pathology (2018-2020, 2022-2023)*

Guest Associate Editor

*American Journal of Speech-Language Pathology (2013, 2015, 2018)*

Editorial Board Member

*CommonHealth (2020-present)*

*International Journal of Speech-Language Pathology (2015-2017)*

Ad hoc journal reviewer

*American Journal of Speech-Language Pathology*

*Applied Psycholinguistics*

*Archives of Physical Medicine and Rehabilitation*

*Aphasiology*

*Behavior Research Methods*

*BioMed Research International*

*Brain and Language*

*Brain Sciences*

*Cerebral Cortex*

*Clinical Linguistics & Phonetics*

*J. American Medical Assoc. (JAMA) Pediatrics*

*Journal of Communication Disorders*

*J. Developmental & Behavioral Pediatrics*

*Journal of Phonetics*

*Journal of Medical Speech-Language Pathology*

*Journal of Motor Behavior*

*Journal of Motor Learning and Development*

*Journal of the Neurological Sciences*

*Journal of Neuroscience*

*Journal of Pediatric Rehabilitation Medicine*

Cognitive Neuropsychology	<i>J. Speech, Language, &amp; Hearing Research</i>
Contemp. Issues in Communication Sciences and Disorders	<i>Language and Cognitive Processes</i>
Cortex	<i>Language and Speech</i>
Current Biology	<i>Language, Learning, and Development</i>
Developmental Neuropsychology	<i>Language, Speech, &amp; Hearing Services in Schools</i>
Folia Phoniatica et Logopaedica	<i>Motor Control</i>
Frontiers in Neurology	<i>NeuroImage</i>
Human Brain Mapping	<i>Perceptual &amp; Motor Skills</i>
International J. Language and Communication Disorders	<i>PLOS ONE</i>
International Journal of Speech-Language Pathology	<i>South African J. of Communication Disorders</i>
Journal of the Acoustical Society of America	<i>Speech, Language, and Hearing</i>

### **SERVICE and LEADERSHIP**

#### **National & International Service**

2021-2023	Faculty mentor, ASHA Lessons for Success professional development conference
2021-2023	Member, ASHA Research and Scientific Affairs Committee (RSAC)
2021-present	Chair, ANCDs Evidence-Based Clinical Research group on Pediatric Motor Speech Disorders
2021-2022	Program Chair, Motor Speech Disorders track, 2022 Conference on Motor Speech
2021-2022	Member, program committee for the 2022 Apraxia Kids Research Symposium
2020-2022	Member, program committee for 8 <sup>th</sup> International Conference on Speech Motor Control
2020-2023	Professional Advisory Council Liaison to Board of Directors, Apraxia Kids
2019-present	Promotion & Tenure Reviewer (external)
2019-2021	Member, Program Committee for the 2021 Clinical Aphasiology Conference
2018-2020	Chair, ANCDs Writing Committee on Acquired and Childhood Apraxia of Speech
2018-2020	Member, ASHA Pathways Advisory Committee
2018-2019	Reviewer, ASHA Practice Portal web content on Childhood Apraxia of Speech
2018	Invited host of roundtable discussion <i>Undergraduates in Your Lab: A Win-Win</i> , at ASHA Convention (Boston, November 2018)
2017-2018	Member, review committee, 2018 Conference on Motor Speech
2017-present	Member, Research Advisory Board, PROMPT Institute
2017-present	Member, Advisory Board for the E. M. Saffran Conference on Cognitive Neuroscience and Rehabilitation of Communication Disorders
2017	Consultant, ASHA Clinical Practice Research Institute (PIs: Preston, McAllister)
2016-2018	Member, ASHA Pathways program leadership team
2016-2020	Member, ANCDs Committee on Childhood Apraxia of Speech
2016-2017	Member, program committee for 7 <sup>th</sup> International Conference on Speech Motor Control
2016	Reviewer, ASHA Students Preparing for Academic Research Careers (SPARC) program
2016	Member, Motor Speech in Adults and Children subcommittee for ASHA Convention
2016	Member, Speech Sound Disorders subcommittee for ASHA Convention
2015-2016	Reviewer, 2016 Conference on Motor Speech (Motor Speech Disorders track)
2015	Reviewer, ASHA Practice Portal content (Acquired Apraxia of Speech topic)
2013	Member, Local Arrangements Committee, 2013 Clinical Aphasiology Conference
2012-present	Member, Professional Advisory Council, Apraxia Kids
2012-2014	Member, Motor Speech in Adults and Children subcommittee for ASHA Conventions
2012-2013	Member, Steering Committee for 2013 Childhood Apraxia of Speech Association of North America (CASANA) Research Symposium

2011	Reviewer and session moderator, 6 <sup>th</sup> International Conference on Speech Motor Control
2011-2021	Member, ANCDs Practice Guidelines Comm. on Treatment for Acquired Apraxia of Speech
2010, 2012, 2018	Reviewer, American Speech-Language-Hearing Foundation scholarships
2010	Member, <i>Language Disorders in Adults</i> subcommittee for ASHA Convention
2005	Member, <i>Motor Speech in Adults and Children</i> subcommittee for ASHA Convention
2001	Student Reviewer, 2001 Clinical Aphasiology Conference
1999-2009	Contributor, <i>Afasiologie</i> (research summaries for speech-language pathologists)

### **University Service**

2022-2023	Member, Master's Program Admissions Committee (CSD, Temple University)
2022	Poster judge, Research & Evidence-Based Practice Day (College of Public Health, Temple)
2020	Member, Research Operations Committee (College of Public Health, Temple)
2019-2020	Member, TT Search Committee (Epidemiology & Biostatistics, Temple University)
2019-present	Tenure reviewer (various institutions)
2019-present	Faculty Mentor (CSD, Temple University)
2019	Member, Promotion & Tenure Review Committee (CSD, Temple University)
2018-present	Chair, Tenured/Tenure-Track Search Committee (CSD, Temple University)
2018	Member, Academic Misconduct Committee (CSD, Temple University)
2016	Member, College of Public Health Building Steering Committee (Temple University)
2015-present	Member, Ph.D. Program Committee (CSD, Temple University)
2015	Member, Speech-Language Pathology Masters program Admissions Committee (SLHS, University of Arizona)
2013-2015	Chair, Colloquium Committee (SLHS, University of Arizona)
2011-2015	Member, Scholarship Committee (SLHS, University of Arizona)
2010-2012	Chair, Undergraduate Committee (SLHS, University of Arizona)
2005	Doctoral student representative, Speech Science Search Committee (SDSU)
2002-2005	Graduate Seminar Series Coordinator (SDSU/UCSD)
2002-2003	Graduate student representative, UCSD Student Regulations and Revisions Committee
2001-2005	Committee Member, UCSD Graduate Student Association, Finance Committee
2001-2005	Graduate student rep, UCSD Office for Students with Disabilities Advisory Committee
2001-2005	Graduate student representative, UCSD Academic Dishonesty Hearing Board
2001	Member, UCSD Graduate Student Association, Finance Reform Committee
2000-2005	Program representative, UCSD Graduate Student Association

### **PROFESSIONAL MEMBERSHIPS**

2017-present	Academy of Neurologic Communication Disorders and Sciences (ANCDs)
2016-present	ASHA Special Interest Division 19: Speech Science
2008-present	ASHA Special Interest Division 2: Neurogenic Communication Disorders
2008-present	American Speech-Language-Hearing Association (ASHA)
1998-2021	Vereniging voor Klinische Linguïstiek ( <i>Clinical Linguistics Association</i> )