

Curriculum Vitae
AMANDA MAHONEY, M.A. CCC-SLP
5930 Kentucky Avenue • Pittsburgh, PA, 15232
Cell: 619-955-2931
Email: asm100@pitt.edu

EDUCATION

Doctor of Philosophy , Communication Science and Disorders University of Pittsburgh <i>Advisor: Dr. James Coyle</i>	2017 - present
Master of Arts , Speech Language Pathology University of Pittsburgh	2015 - 2017
Post-Baccalaureate (non-degree) , Communication Science and Disorders University of Pittsburgh	2012 – 2014
Bachelor of Arts , Psychology Hobart and William Smith Colleges	1995 - 1999

RELEVANT RESEARCH POSITIONS

Graduate Research Assistant (Jan 2018 – present)
Computational Deglutition Lab
Department of Communication Science and Disorders, University of Pittsburgh
Principal Investigators: Dr. Ervin Sejdic, PhD and Dr. James Coyle, PhD

Research Project Coordinator (Sep 2011 - Aug 2016)
Pittsburgh Early Autism Study
Department of Psychology, University of Pittsburgh
Primary Investigator: Dr. Susan B. Campbell, PhD

Research Assistant (Sep 2013 - April 2014)
Cochlear Implant Processing Lab
Department of Communication Science and Disorders, University of Pittsburgh
Primary Investigator: Dr. Chris Brown, PhD

RELEVANT CLINICAL POSITIONS

Speech-Language Pathologist GrowNOW Therapy, Philadelphia, PA	July 2022 – current
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Speech-Language Pathologist - Clinical Fellow
GrowNOW Therapy, Philadelphia, PA

Oct. 2021 – June 2022

Speech-Language Pathologist - Clinical Fellow
Children's Hospital of Pittsburgh Main, Pittsburgh, PA

Oct. 2019 – February 2020

Speech-Language Pathologist - Clinical Fellow
UPMC Passavant Hospital, Pittsburgh, PA

Sept. 2019 – February 2020

Speech-Language Pathologist - Clinical Fellow
UPMC ALS Clinic, Pittsburgh, PA

Sept. 2019 – February 2020

SCHOLARSHIP

REFEREED PUBLICATIONS

Mahoney, A.S., Garand, K.L., & Lundblom, E.G. (Under Review). A Survey of Communication Sciences and Disorders Graduate Students' Perceptions of Critical Appraisal Skills. *Teaching and Learning in Communication Sciences & Disorders*.

Khalifa, Y., **Mahoney, A.S.**, Lucatorto, E., Coyle, J.L., & Sejdic, E. (Under Review) Non-Invasive Sensor-Based Estimation of Anterior-Posterior Upper Esophageal Sphincter Opening Maximal Distension. *IEEE Transactions on Neural Systems & Rehabilitation Engineering*.

Mahoney, A.S., O'Donnell, M., Turner, R., White, K.E., Coyle, J.L., Skoretz, S. (In Press). Non-pharmacological and non-surgical feeding interventions for hospitalized infants with feeding disorders: A scoping review. *Dysphagia*.

Mahoney, A.S., Khalifa, Y., Lucatorto, E.L., Coyle, J.L., & Sejdic, E. (2022). Cervical vertebral height approximates hyoid displacement in videofluoroscopic images of healthy adults, *Dysphagia*.

Shu, K., Perera, S., **Mahoney, A.S.**, Mao, S., Coyle, J.L., & Sejdic, E. (2022). Temporal sequence of upper esophageal sphincter opening and laryngeal vestibule closure is associated with airway protection. *Laryngoscope*.

Balest, A., **Mahoney, A.S.**, Shaffer, A.D., White, K.E., Theiss, R., Dohar, J. (2021). Aspiration in infants and associated signs on clinical feeding evaluation. *International Journal of Pediatric Otorhinolaryngology*, 149, 1-6.

Sabry, A., **Mahoney, A. S.**, Mao, S., Khalifa, Y., Sejdic, E., Coyle, J. L. (2020). Automatic estimation of laryngeal vestibular closure duration using high-resolution cervical auscultation (HRCA) signals. *Perspectives of the ASHA Special Interest Groups*, 5(6), 1647-1656.

Sejdic, E., Khalifa, Y., **Mahoney, A.S.**, Coyle, J.L. (2020). Artificial intelligence and dysphagia: New solutions to old problems (editorial). *Arquivos de Gastroenterologia*, 57(4), 343-346.

Zhang, Z., Perera, S., Donohue, C., Kurosu, A., **Mahoney, A.**, Coyle, J., Sejdic, E. (2020). The prediction of risk of penetration-aspiration via hyoid bone displacement features. *Dysphagia*, 35(1), 66-72.

Balest, A.L., White, K.E., Shaffer, A.D., **Mahoney, A.S.**, Georg, M., Theiss, R., & Dohar, J. (2019). Consideration of cough reflex development when ordering Modified Barium Swallow Studies in infants. *Dysphagia*, 35(3), 533-541.

He, Q., Perera, S., Khalifa, Y., Zhang, Z., **Mahoney, A.**, Sabry, A., Donohue, C., Coyle, J., & Sejdic, E. (2019). The association of high resolution cervical auscultation signal features with hyoid bone displacement during swallowing. *IEEE Transactions on Neural Systems & Rehabilitation Engineering*, 27(9), 1810-1816.

Campbell, S., **Mahoney, A.**, Brownell, C., Moore, E. & Tavares, A. (2018). Parents' use of internal state language with toddlers at high and low genetic risk for autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 49(4), 1366-1377.

Campbell, S., **Mahoney, A.**, Northrup, J, Moore, E., Leezenbaum, N., & Brownwell, C. (2018). Developmental changes in pretend play from 22- to 34- months in younger siblings of children with autism spectrum disorder. *Journal of Abnormal Psychology*, 46(3), 639-654.

Campbell, S., Leezenbaum, N., **Mahoney, A.**, Moore, E., & Brownell, C. (2016). Pretend play and social engagement in toddlers at high and low genetic risk for autism spectrum disorder. *Journal of Autism and Developmental Disorders*, 46(7), 2305-2316.

Campbell, S., Leezenbaum, N., **Mahoney, A.**, Day, T., & Schmidt, E. (2015). Social engagement with parents in 11-month-old siblings at high and low genetic risk for autism spectrum disorder. *Autism*, 19, 915-924.

PROCEEDINGS

Caliskan, H., **Mahoney, A.**, Coyle, J., & Sejdic, E. Automated bolus detection in videofluoroscopic images of swallowing using Mask-Rcnn. 42nd Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) in conjunction with the 43rd Annual Conference of the Canadian Medical and Biological Engineering Society, July 2020, Montreal.

REFEREED PROFESSIONAL PRESENTATIONS

ORAL PRESENTATIONS

Mahoney, A., Garand, K., Coyle, J.L., & Lundblom. The CSD undergraduate student experience appraising scholarly articles. Oral presentation at: American Speech-Language-Hearing Association Convention; 2021; Washington, D.C. (Accepted Abstract).

Mahoney, A., Turner, R., O'Donnell, M., White, K.E., Coyle, J.L., & Skoretz, S. Synthesizing the evidence on interventions that bridge hospitalized infants from non-oral to oral feeding. Oral presentation at: American Speech-Language-Hearing Association Convention; 2021; Washington, D.C. (Accepted Abstract).

Mahoney, A., Donohue, C., Lucatorto, E., Khalifa, Y., Sejdic, E. & Coyle, J. Massive Open Online Courses (MOOCs): Applications for educators, researchers, and clinicians in CSD. Oral presentation at: American Speech-Language-Hearing Association Convention; 2020; San Diego, CA. (Conference canceled).

Mahoney, A. The C3 & C4 vertebral units: Visual approximations of hyoid displacement during videofluoroscopy. Oral presentation at: American Speech-Language-Hearing Association Convention; 2019 November 20-23; Orlando, FL.

Mahoney, A., Donohue, C., & Coyle, J. Novel technologies in dysphagia assessment and treatment. Oral presentation at: American Speech-Language-Hearing Association Convention; 2019 November 20-23; Orlando, FL.

POSTER PRESENTATIONS

Mahoney, A., Lucatorto, E., Khalifa, Y., Sejdic, E., & Coyle, J.L. Identifying Penetration and Aspiration Using Non-Invasive High-Resolution Cervical Auscultation. Poster presentation at: Dysphagia Research Society Annual Meeting; 2020, March 15-18; San Juan, PR.

Mahoney, A., Mao, S., Khalifa, Y., Lucatorto, E., Sejdic, E., & Coyle, J.L. High-Resolution Cervical Auscultation As A Non-Invasive Biomarker Of Atypical Swallows From Patients At Risk Of Dysphagia. Poster presentation at: Dysphagia Research Society Annual Meeting; 2020, March 15-18; San Juan, PR.

Lucatorto, E. Khalifa, Y., **Mahoney, A.,** Sejdic, E., & Coyle, J.L. A preliminary investigation of similarities of high resolution cervical auscultation signals between thin liquid barium and water swallows. Poster presentation at: Dysphagia Research Society Annual Meeting; 2020, March 15-18; San Juan, PR.

Mahoney, A., Lucatorto, E., Khalifa, Y., Sejdic, E., & Coyle, J.L. Predicting penetration-aspiration scores using non-invasive high-resolution cervical auscultation. Poster presentation at: American Speech-Language-Hearing Association Convention; 2021; Washington, D.C.

Donohue, C., **Mahoney, A.,** Sejdic, E., & Coyle, J. How important is randomization of swallows during kinematic analysis of swallow function? Poster at: Annual Rehabilitation Institute Research Day; 2020, October 7; Pittsburgh, PA (Virtual).

Mahoney, A., Lundblom, E. A Systematic and comprehensive teaching approach to strengthen clinical writing skills in undergraduate students. Poster presentation at: American Speech-Language-Hearing Association Convention; 2020; San Diego, CA. (Conference canceled).

Mahoney, A., Turner, R., O'Donnell, M., Coyle, J., & Skoretz, S. A bibliometric review of infant feeding and swallowing interventions. Poster presentation at: American Speech-Language-Hearing Association Convention; 2020; San Diego, CA. (Conference canceled).

Donohue, C., **Mahoney, A.,** Khalifa, Y., Mao, S., Sejdic, E., Coyle, J. Can HRCA characterize kinematic events of swallow function in healthy adults across the lifespan? Poster presentation at: American Speech-Language-Hearing Association Convention; 2020; San Diego, CA. (Conference canceled).

Mahoney, A., Donohue, C., Coyle, J., Sejdic, E. MOOC: A creative and effective way to disseminate knowledge across disciplines. Poster at: 2020 Pennsylvania Speech-Language-Hearing Association Convention: 2020 April 1-4; Pittsburgh, PA. (Conference canceled).

Mahoney, A., Donohue, C., Perera, S., Sejdic, E., & Coyle, L. Can HRCA signal features of UES diameter and duration of UES opening predict MBSImP residue ratings? Poster at: Dysphagia Research Society Annual Meeting; 2020, March 17-20; San Juan, PR. (Conference canceled).

Donohue, C., **Mahoney, A.,** Sejdic, E., & Coyle, J. How important is randomization of swallows during kinematic analysis of swallow function? Poster at: Dysphagia Research Society Annual Meeting; 2020, March 17-20; San Juan, PR. (Conference canceled).

Sabry, A., Mao, S., **Mahoney, A.,** Khalifa, Y., Sejdic, E., & Coyle, J. Estimation of laryngeal vestibular closure duration using High Resolution Cervical Auscultation (HRCA) signals. Poster presented at: American Speech-Language-Hearing Association Convention; 2019 November 20-23; Orlando, FL.

Mahoney, A., Donohue, C., Coyle, J., Sejdic, E. MOOC: A creative and effective way to disseminate knowledge across disciplines. Poster presented at: MedEd Day: 2019 September, 20; Pittsburgh, PA.

Mahoney, A., Coyle, J., Khalifa, Y., Sabry, A., Sejdic, E. The C3 & C4 vertebral units: Visual approximations of hyoid displacement during VFSS. Poster presented at: Rehabilitation Institute Research Day: 2019 May, 22; Pittsburgh, PA.

Mahoney, A., Coyle, J., Khalifa, Y., Sabry, A., Sejdic, E. The C3 unit: A visual approximation of hyoid displacement during VFSS. Poster presented at: Dysphagia Research Society Annual Meeting: 2019 March 7-9; San Diego, CA.

Sabry, A., **Mahoney, A.,** Perera, S., Sejdic, E., Coyle, J. Are HRCA signal features associated with clinician ratings of pharyngeal residue using the MBSImp? Poster presented at: Dysphagia Research Society Annual Meeting: 2019 March 7-9; San Diego, CA.

Mahoney, A., Balest, A., White, K., Shaffer, A., Georg, M., Theiss, R., & Dohar, J. Consideration of Cough Reflex Development in Infants Referred for Modified Barium Swallow Studies. Poster presented at: American Speech-Language-Hearing Association Convention; 2018 November 15-18; Boston, MA.

Donohue, C., **Mahoney, A.**, Zhang, Z., Kurosu, Z., Sejdic, E., & Coyle, J. Do Machine Ratings of Hyoid Bone Displacement During Videofluoroscopy Match Clinician Ratings Using the MBSImP? Poster presented at: American Speech-Language-Hearing Association Convention; 2018 November 15-18; Boston, MA.

Donohue, C., Zhang, Z., **Mahoney, A.**, Perera, S., Sejdic, E., & Coyle, J. Can Machine Ratings of Hyoid Bone Displacement During Swallowing Predict Penetration & Aspiration? Poster presented at: American Speech-Language-Hearing Association Convention; 2018 November 15-18; Boston, MA.

Donohue, C., Zhang, Z., **Mahoney, A.**, Perera, S., Sejdic, E., & Coyle, J. Can Machine Ratings of Hyoid Bone Displacement During Swallowing Predict Penetration & Aspiration? Poster presented at: Carnegie Mellon University's Forum on Biomedical Engineering; 2018 September 21; Pittsburgh, PA.

Mahoney, A., Lockyer, P., Brownell, C. & Campbell, S. Development of elicited pretend play in toddlers at high genetic risk for autism spectrum disorders. Poster presented at: Society for Research in Child Development Biennial Meeting; 2015 March 19-21; Philadelphia, PA.

Leezenbaum, N., **Mahoney, A.**, Lockyer, P. & Campbell, S. Symbolic play in toddlers at high and low genetic risk for autism spectrum disorders. Poster presented at: Society for Research in Child Development Biennial Meeting; 2015 March 19-21; Philadelphia, PA.

Mahoney, A., Leezenbaum, N., Brownell, C., & Campbell, S. The use of inner state language by parents of toddlers at high and low genetic risk for autism. Poster presented at: Society for Research in Child Development Biennial Meeting; 2013 April 18-20; Seattle, WA.

Leezenbaum, N., **Mahoney, A.**, Schmidt, E. & Campbell, S. Parental behavior during play predicts imitation differently in toddlers at high and low genetic risk for autism. Poster presented at: Society for Research in Child Development Biennial Meeting; 2013 April 18-20; Seattle, WA.

TEACHING

COURSES TAUGHT

The University of Pittsburgh

CSD 1234: Writing Practicum for Evaluation and Treatment 1 credit UG (FA 17,18; SP 20, 21)

INVITED GUEST LECTURES

The University of Pittsburgh

CSD 2081: Research Strategies and Tactics "Article Appraisal" GRAD (Sept 20, 21)

CSD 1230: Introduction to SLP "Pediatric Dysphagia" UG (April 20, 21, 22)

The University of South Alabama GRAD (October 18,19, 20, 21)

PROFESSIONAL SERVICE

JOURNAL REFEREEING

2021 – present	Journal of Speech, Language, and Hearing Research
2020 – present	Editorial Board Member, <i>Perspectives of the ASHA Special Interest Groups</i> , Swallowing and Swallowing Disorders
2019 – present	Dysphagia
2018 – present	American Journal of Speech-Language Pathology

COMMITTEES

2022	Subcommittee Chair (Adults) Convention Planning Committee Member (2023 Pennsylvania Speech-Language-Hearing Association Convention)
2021	Subcommittee Chair (Pediatrics) Convention Planning: (2022 Pennsylvania Speech-Language-Hearing Association Convention)
2020 – 2022	Student Advisory Board Committee Member (Dysphagia Research Society)
2020	Convention Planning Committee Member (2021 Pennsylvania Speech-Language-Hearing Association Convention)

PROFESSIONAL ASSOCIATION MEMBERSHIP

2015 – present	American Speech-Language Hearing Association (ASHA) <ul style="list-style-type: none">• Special Interest Group (SIG) #13 Swallowing and Swallowing Disorder• Special Interest Group (SIG) #10 Higher Education
2017 – present	Dysphagia Research Society
2017 – present	Pennsylvania Speech-Language-Hearing Association (PSHA)
2017 – present	Southwestern Pennsylvania Speech-Language-Hearing Association (SPSHA)
2012 – 2019	National Student Speech-Language Hearing Association (NSSLHA)

LICENCES AND CERTIFICATIONS

July 2022 – present Certificate of Clinical Competence, *American Speech-Language Hearing Association*

2019 Achievement in Pedagogy Badge

AWARDS

Fall 2022 Dysphagia Research Society Inter-Disciplinary Fall Conference

Spring 2021 Dysphagia Research Society Best Poster Award

Fall 2020 ASHA Meritorious Poster Award across categories: “Professional Education” and “Research”

Spring 2020 Pennsylvania Speech-Language Hearing Association Meritorious Poster Award

Fall 2019 ASHA’s *Perspectives of Special Interest Group 13* Golden Ticket Poster Award

Fall 2019 Graduate and Professional Student Government Travel Grant

Fall 2019 School of Health and Rehabilitation Sciences Research Development Fund

Fall 2019 School of Health and Rehabilitation Sciences Travel Grant

Spring 2019 Semantic Compaction Systems Education Travel Award

Spring 2019 School of Health and Rehabilitation Sciences Travel Grant

Fall 2017 Semantic Compaction Systems Education Travel Award