

# James C. Borders PhD, CCC-SLP

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Postdoctoral Research Fellow  
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## Education

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- 2023 – Postdoctoral Research Fellow  
Teachers College, Columbia University, New York, NY  
Advisor: Dr. Michelle S. Troche
- 2023 Doctor of Philosophy, Communication Sciences & Disorders  
Teachers College, Columbia University, New York, NY  
Dissertation: “*Maximizing cough motor learning with skill training in Parkinson’s disease*”  
Advisor: Dr. Michelle S. Troche
- 2016 M.S. Speech-Language Pathology, Medical Concentration  
MGH – Institute of Health Professions, Boston, MA  
Thesis: “*A developmental examination of feedback processing during declarative learning*”  
Advisor: Dr. Yael Arbel
- 2014 B.A. Psychology, Minor in Deaf Studies  
College of the Holy Cross, Worcester, MA

## Academic and Clinical Positions

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- 2017 – 2019 Speech Pathologist  
Voice and Swallow Clinic, Department of Otolaryngology  
Boston Medical Center, Boston, MA
- 2016 – 2017 Speech Pathology Clinical Fellow  
Department of Otolaryngology  
University of Wisconsin – Madison, Madison, WI
- 2015 – 2016 Graduate Research Assistant  
Department of Brain & Cognitive Sciences  
Massachusetts Institute of Technology, Cambridge, MA  
PI: Pawan Sinha
- 2014 – 2016 Graduate Research Assistant  
Cognitive Neuroscience Group  
MGH – Institute of Health Professions, Boston, MA  
PI: Yael Arbel

2010 — 2014

Research Assistant  
Department of Psychology  
College of the Holy Cross, Worcester, MA  
PIs: Mark Hallahan & Richard Schmidt

## Grant Support

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- Under Review    NIH-NIDCD K99 DC022678: Pathway to Independence Award  
*Toward individualized care for people with vocal tremor: Defining meaningful change for patient-reported and acoustic voice outcomes*  
Role: PI  
Sponsors: Ryan Branski & Michelle S. Troche
- Unfunded        NIH-NINDS F31 NS129255-01A1: Ruth L. Kirschstein National Research Service Award  
*Refining cough skill training in Parkinson's disease and dysphagia*  
Role: PI; Impact Score: 17, Percentile: 5  
Sponsor: Michelle S. Troche

## Peer-reviewed Publications

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- 2024            **Borders, J. C.**, Grande, A. A., Barbon, C. E., Hutcheson, K. A., & Troche, M. S. (2024). Effects of statistical practices for longitudinal group comparison of the penetration-aspiration scale on power and effect size estimation: A Monte Carlo simulation study. *Dysphagia*. <https://doi.org/10.1007/s00455-024-10738-7>
- Borders, J. C.** & Troche, M. S. (2024). Minimal detectable change of cough and lingual strength outcomes in neurodegenerative disease. *Laryngoscope*. <https://doi.org/10.1002/lary.31654>
- Borders, J. C.**, Lowell, E. R., Quinn, L., Huber, J. E., & Troche, M. S. (2024). A preliminary study of voluntary cough motor performance and learning with skill training and biofeedback. *Journal of Speech, Language, and Hearing Research*, 67(5), 1299-1323. [https://doi.org/10.1044/2024\\_JSLHR-23-00516](https://doi.org/10.1044/2024_JSLHR-23-00516)
- Borders, J. C.** & Steele, C. M. (2024). The effect of liquid consistency on penetration-aspiration: A Bayesian analysis of two large datasets. *Frontiers in Rehabilitation Sciences*, 5, 1-17. <https://doi.org/10.3389/fresc.2024.1337971>
- Curtis, J. A., **Borders, J. C.**, Kieffer, B., Alcalay, R. N., Huber, J. E., & Troche, M. S. (In Press). Respiratory-swallow coordination and its relationship with pharyngeal residue, penetration, and aspiration in people with Parkinson's disease. *Journal of Speech, Language, and Hearing Research*.
- Buckley, D. P., **Borders, J. C.**, & Pisegna, J. M. (2024). Muscle tension dysphagia: An expanded investigation of clinical presentations and swallowing kinematics. *American Journal of Speech-Language Pathology*. [https://doi.org/10.1044/2024\\_AJSLP-23-00415](https://doi.org/10.1044/2024_AJSLP-23-00415)
- Curtis, J. A., Tabor-Gray, L., Arrese, L., **Borders, J. C.**, Starmer, H. M. (2024). Characterizing the Validity of Using VASES to Derive DIGEST-FEES Grades. *Folia Phoniatria et Logopaedica*. <https://doi.org/10.1159/000538935>

Perry, S. E., Troche, M.S., Huber, J. E., ... **Borders, J. C.**, ... Katz, L. (2024). Behavioral management of respiratory/phonatory dysfunction for dysarthria associated with neurodegenerative disease: A systematic review. *American Journal of Speech-Language Pathology*, 33(2), 1069-1097. [https://doi.org/10.1044/2023\\_AJSLP-23-00274](https://doi.org/10.1044/2023_AJSLP-23-00274)

Kitila, M., **Borders, J. C.**, Krisciunas, G. P., McNally, E., Pisegna, J. M. (2024). Confidence, accuracy, and reliability of penetration-aspiration scale ratings on flexible endoscopic evaluations of swallowing by speech pathologists. *Dysphagia*, 39(3), 504-513. <https://doi.org/10.1007/s00455-023-10635-5>

Curtis, J. A., **Borders, J. C.**, Dakin, A. E., & Troche, M. S. (2024). Auditory-perceptual assessments of cough: Characterizing rater reliability and the effects of a standardized training protocol. *Folia Phoniatica et Logopaedica*, 76(1), 77-90. <https://doi.org/10.1159/000533372>

Lowell, E. L., **Borders, J. C.**, Perry, S. E., Dakin, A. E., Sevitz, J. S., Kuo, S. H., & Troche, M. S. (2024). Sensorimotor cough dysfunction in cerebellar ataxia. *The Cerebellum*. <https://doi.org/10.1007/s12311-023-01635-0>

2023

**Borders, J. C.**, Hegland, K. W., Vanegas, N.V., & Troche, M. S. (2023). Motor performance during sensorimotor training for airway protection in Parkinson's disease. *American Journal of Speech-Language Pathology*, 32(6), 2718-2733. [https://doi.org/10.1044/2023\\_AJSLP-23-00055](https://doi.org/10.1044/2023_AJSLP-23-00055)

**Borders, J.C.**, Sevitz, J.S., Curtis, J.A., Vanegas, N.V., & Troche, M. S. (2023). Quantifying impairments in swallowing safety and efficiency in progressive supranuclear palsy and Parkinson's disease. *Dysphagia*. <https://doi.org/10.1007/s00455-023-10560-7>

Dakin, A. E., **Borders, J. C.**, Curtis, J. A., Hegland, K. W., & Troche, M. S. (2023). Maximal expiratory pressure and its link with cough airflow before and after expiratory muscle strength training in Parkinson's disease. *SIG 13 Perspectives*. [https://doi.org/10.1044/2023\\_PERSP-23-00065](https://doi.org/10.1044/2023_PERSP-23-00065)

Curtis, J. A., **Borders, J. C.**, Dakin, A. E., & Troche, M. S. (2023). Normative reference values for FEES and VASES: A prospective, observational study of non-dysphagic, community-dwelling adults. *Journal of Speech, Language, and Hearing Research*. [https://doi.org/10.1044/2023\\_JSLHR-23-00132](https://doi.org/10.1044/2023_JSLHR-23-00132)

Lowell, E.R., **Borders, J.C.**, Sevitz, J.S., Dakin, A.E., Brates, D., & Troche, M.S. (2023). A primer on hypotussic cough: Mechanisms and assessment. *Current Otorhinolaryngology Reports*, 11(2), 182-191. <https://doi.org/10.1007/s40136-023-00446-5>

Jijakli, A., Pisegna, J.M., **Borders, J.C.**, Ramirez, E., Gottlieb, A., Leonard, R., Murrari, J., & Langmore, S.E. (2023). Absent epiglottic inversion as seen on flexible endoscopic evaluations of swallowing (FEES) is associated with a gestalt reduction in swallowing mechanics. *American Journal of Otolaryngology*, 44(2), 1-8. <https://doi.org/10.1016/j.amjoto.2022.103757>

El Amin, M., **Borders, J. C.**, Long, H. L., Keller, M. A., & Kearney, E. (2023). Open science practices in communication sciences and disorders: A survey. *Journal of Speech, Language, and Hearing Research*, 66(6), 1928-1947. [https://doi.org/10.1044/2022\\_JSLHR-22-00062](https://doi.org/10.1044/2022_JSLHR-22-00062)

Schroeder, S. R., El Amin, M., Gaeta, L., Chow, J.C., & **Borders, J. C.** (2023). Evaluating research transparency and openness in Communication Sciences and Disorders journals. *Journal of Speech, Language, and Hearing Research*, 66(6), 1977-1985. [https://doi.org/10.1044/2022\\_JSLHR-22-00330](https://doi.org/10.1044/2022_JSLHR-22-00330)

2022

**Borders, J. C., Grande, A., & Troche, M. S. (2022).** Statistical power and swallowing rehabilitation research: Current landscape and next steps. *Dysphagia*, 37(6), 1673-1688. <https://doi.org/10.1007/s00455-022-10428-2>

**Borders, J. C. & Troche, M. S. (2022).** Voluntary cough effectiveness and airway clearance in neurodegenerative disease. *Journal of Speech, Language, and Hearing Research*, 65(2), 431-449. [https://doi.org/10.1044/2021\\_JSLHR-21-00308](https://doi.org/10.1044/2021_JSLHR-21-00308)

Curtis, J. A., **Borders, J. C.**, Dakin, A. E., & Troche, M. S. (2022). The role of aspiration amount on airway protective responses in people with neurogenic dysphagia. *Dysphagia*, 38(4), 1212-1223. <https://doi.org/10.1007/s00455-022-10546-x>

Sevitz, J.S., Perry, S.E., **Borders, J.C.**, Dakin, A.E., Curtis, J. A., & Troche, M.S. (2022). The relationship between lingual strength and functional swallowing outcomes in Parkinson's disease. *Dysphagia*, 38(4), 1169-1183. <https://doi.org/10.1007/s00455-022-10543-0>

Troche, M. S., Curtis, J. A., Sevitz, J. S., Dakin, A. E., Perry, S. E., **Borders, J. C.**, Grande, A. A., Vanegas-Arroyave, N., & Hegland, K. W. (2022). Rehabilitating airway protection in Parkinson's disease: A randomized controlled trial. *Movement Disorders*, 38(2), 201-211. <https://doi.org/10.1002/mds.29268>

Sevitz, J. S., **Borders, J. C.**, Dakin, A. E., Alcalay, R. N., Kuo, S., & Troche, M. S. (2022). Rehabilitation of airway protection in individuals with movement disorders: A telehealth feasibility study. *American Journal of Speech-Language Pathology*, 31(6), 2741-2758. [https://doi.org/10.1044/2022\\_AJSLP-22-00063](https://doi.org/10.1044/2022_AJSLP-22-00063)

Curtis, J. A., **Borders, J. C.**, & Troche, M. S. (2022). Visual analysis of swallowing efficiency and safety (VASES): Determination of criterion and concurrent validity. *American Journal of Speech-Language Pathology*, 31(2), 808-818. [https://doi.org/10.1044/2021\\_AJSLP-21-00116](https://doi.org/10.1044/2021_AJSLP-21-00116)

2021

**Borders, J. C.**, Curtis, J. A., Sevitz, J. S., Vanegas-Arroyave, N., & Troche, M. S. (2021). Sensorimotor cough dysfunction is prevalent and pervasive in progressive supranuclear palsy. *Movement Disorders*, 36(11), 2624 - 2633. <https://doi.org/10.1002/mds.28707>

**Borders, J. C.**, Curtis, J. A., Sevitz, J. S., Vanegas-Arroyave, N., & Troche, M. S. (2021). Immediate effects of sensorimotor training in airway protection (smTAP) on cough outcomes in progressive supranuclear palsy: A feasibility study. *Dysphagia*, 37(1), 74-83. <https://doi.org/10.1007/s00455-021-10251-1>

**Borders, J. C.**, Sevitz, J. S., Malandraki, J. B., Malandraki, G. A., & Troche, M. S. (2021). Objective and subjective clinical swallowing outcomes via telehealth: Reliability in outpatient clinical practice. *American Journal of Speech-Language Pathology*, 30(2), 598-608. [https://doi.org/10.1044/2020\\_AJSLP-20-00234](https://doi.org/10.1044/2020_AJSLP-20-00234)

Perry, S. E., **Borders, J. C.**, Dakin, A. E., & Troche, M. S. (2021). Characterizing quality of life in caregivers of people with Parkinson's Disease and dysphagia. *Dysphagia*, 37(3), 523-532. <https://doi.org/10.1007/s00455-021-10299-z>

Curtis, J. A., **Borders, J. C.**, Perry, S. E., Dakin, A. E., Seikaly, Z., & Troche, M. S. (2021). Visual analysis of swallowing efficiency and safety (VASES): A standardized approach to rating pharyngeal residue, penetration, and aspiration during FEES. *Dysphagia*, 37(2), 417-435. <https://doi.org/10.1007/s00455-021-10293-5>

- 2020 **Borders, J. C.**, Brandimore, A. E., & Troche, M. S. (2020). Variability of voluntary cough airflow in healthy adults and Parkinson's disease. *Dysphagia*, 36(4), 700-706. <https://doi.org/10.1007/s00455-020-10190-3>
- Borders, J. C.**, Blanke, S., Johnson, S., Gilmore-Bykoyski, A., & Rogus-Pulia, N. (2020). Efficacy of mealtime interventions for malnutrition and oral intake in persons with dementia: A systematic review. *Alzheimer's Disease & Associated Disorders*, 34(4), 366 – 379. <https://doi.org/10.1097/WAD.0000000000000387>
- Borders, J. C.**, O'Dea, M. B., McNally, E., Norberg, E., Kitila, M., Walsh, M., Lui, R., & Pisegna, J. M. (2020). Inter- and intra-rater reliability of laryngeal sensation testing with the touch method during flexible endoscopic evaluations of swallowing. *Annals of Otolaryngology & Laryngology*, 129(6), 565 – 571. <https://doi.org/10.1177/0003489419901145>
- Borders, J. C.** & Brates, D. (2019). Use of the penetration-aspiration scale in dysphagia research: A systematic review. *Dysphagia*, 35(4), 583 – 597. <https://doi.org/10.1007/s00455-019-10064-3>
- Enver, N., **Borders, J. C.**, Curtis, J. A., Seviz, J. S., Vanegas-Arroyave, N., & Troche, M. S. (2020). The role of vocal fold bowing on cough and swallowing dysfunction in progressive supranuclear palsy. *The Laryngoscope*, 131(6), 1217-1222. <https://doi.org/10.1002/lary.28885>
- 2019 **Borders, J. C.**, Fink, D., Levitt, J. E., McKeehan, J., McNally, E., Rubio, A., ... Krisciunas, G. P. (2019). Relationship between laryngeal sensation, length of intubation, and aspiration in patients with acute respiratory failure. *Dysphagia*, 34(4), 521 – 528. <https://doi.org/10.1007/s00455-019-09980-1>
- Stipancic, K. L., **Borders, J. C.**, Brates, D., & Thibeault, S. L. (2019). Prospective investigation of incidence and co-occurrence of dysphagia, dysarthria, and aphasia following ischemic stroke. *American Journal of Speech-Language Pathology*, 28(1), 188 – 194. [https://doi.org/10.1044/2018\\_AJSLP-18-0136](https://doi.org/10.1044/2018_AJSLP-18-0136)
- 2018 **Borders, J. C.**, Gibson, A. L., Grayev, A., & Thibeault, S. L. (2018). Predictors of dysphagia in critically injured patients with neck trauma. *Journal of Critical Care*, 44, 312 – 317. <https://doi.org/10.1016/j.jcrc.2017.12.004>
- Pisegna, J. M., **Borders, J. C.**, Kaneoka, A., Coster, W. J., Leonard, R., & Langmore, S. E. (2018). Reliability of untrained and experienced raters on FEES: Rating overall residue is a simple task. *Dysphagia*, 33(5), 645 – 654. <https://doi.org/10.1007/s00455-018-9883-x>

### Preprints (Not Peer-reviewed)

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- 2024 Curtis, J. A. & **Borders, J. C.** (2024). Semi-Automated and Manual Measurement of Respiratory-Swallow Coordination: A Standard Operating Procedure. *Open Science Framework*. <https://doi.org/10.31219/osf.io/s3zer>
- 2023 **Borders, J. C.** (2023). Semi-Automated Measurement of Cough Airflow and Lung Volume: A Tutorial. *Open Science Framework*. <https://doi.org/10.31219/osf.io/gmydb>

## Refereed Presentations

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2024

Buckley, D. P., **Borders, J. C.**, & Pisegna, J. M. (2024). Muscle tension dysphagia: An expanded investigation of clinical presentations and swallowing kinematics. Oral presentation at Fall Voice. Phoenix, Arizona.

Jones, C. A., **Borders, J. C.**, & Vose, A. Deglutitive airway protection: What is necessary and what is sufficient? Oral presentation at the European Society for Swallowing Disorders Annual Conference. Münster, Germany.

**Borders, J. C.**, Villarreal-Cavazos, K., Huber, J. E., Quinn, L., Keller, B., & Troche, M. S. Enhancing Cough Motor Learning in Parkinson's Disease through Variable Practice During Skill Training. Poster presentation at the Dysphagia Research Society. San Juan, Puerto Rico.

**Borders, J. C.** & Steele, C. M. The Impact of Thickened Liquids on Airway Invasion: Findings from Two Large Datasets. Poster presentation at the Dysphagia Research Society. San Juan, Puerto Rico.

Villarreal-Cavazos, K., **Borders, J.C.**, Seikaly, Z., J., Sevitz, J.S., Vanegas-Arroyave, N., & Troche, M.S. Establishing the practical feasibility of expiratory muscle strength training (EMST) for individuals with Progressive Supranuclear Palsy (PSP). Poster presentation at the Dysphagia Research Society. San Juan, Puerto Rico.

Lowell, E.R., **Borders, J.C.**, Sevitz, J.S., Vanegas-Arroyave, N., & Troche, M.S. Reduced lingual swallowing pressure increases odds of airway invasion in progressive supranuclear palsy. Poster presentation at the Dysphagia Research Society. San Juan, Puerto Rico.

Veit, K.R., Sevitz, J.S., Dallal-York, J., ... **Borders, J.C.**, ... & Troche, M.S. Practical tools to improve the implementation of expiratory muscle strength training via telehealth. Poster presentation at the Dysphagia Research Society. San Juan, Puerto Rico.

Tipton, C. B., **Borders, J. C.**, Curtis, J. A., & Troche, M. S. Association between Airway Protection and Bowing Index in Individuals with Neurodegenerative Disease. Poster presentation at the Dysphagia Research Society. San Juan, Puerto Rico.

2023

**Borders, J. C.**, Lowell, E. R., Villarreal Cavazos, K., & Troche, M. S. How to Integrate Cough Evaluation and Cough Skill Training into Dysphagia Management Oral presentation at the American Speech Language Hearing Association Annual Convention. November 2023. Boston, MA.

El Amin, M., Hirsch, M., & **Borders, J. C.** Innovating Research in CSD by Embracing Open Science. Oral presentation at the American Speech Language Hearing Association Annual Convention. November 2023. Boston, MA.

Lowell, E. R., Rau, S., Lee, T., **Borders, J. C.**, Dakin, A. E., & Troche, M. S. Cough Motor Effectiveness in Movement Disorders: Comparing Parkinson's Disease, Progressive Supranuclear Palsy, and Ataxia. Poster presentation at the American Speech Language Hearing Association Annual Convention. November 2023. Boston, MA.

**Borders, J. C.**, Kuo, S. H., & Troche, M. S., Effects of Cough Skill Training in Spinocerebellar Ataxia. Poster presentation at Dysphagia Research Society. March 2023. San Francisco, California.

**Borders, J. C.**, Lowell, E. R., Huber, J. E., & Troche, M. S., Visual Biofeedback Does Not Enhance Cough Upregulation in Parkinson's Disease. Poster presentation at Dysphagia Research Society. March 2023. San Francisco, California.

**Borders, J. C.**, Grande, A. A., Barbon, C. E., Hutcheson, K. A., & Troche, M. S., Effects of Statistical Practices for Longitudinal Group Comparison of the Penetration-Aspiration Scale on Power and Effect Size Estimation: A Monte Carlo Simulation Study. Poster presentation at Dysphagia Research Society. March 2023. San Francisco, California.

**Borders, J. C.**, Huber, J. E., & Troche, M. S., Assessing the Accuracy of Respiratory Calibration Methods to Estimate Lung Volume During Cough. Poster presentation at Dysphagia Research Society. March 2023. San Francisco, California.

Troche, M.S., **Borders, J.C.**, Curtis, J.A., Dakin, A.E., Sevitz, J.S., Perry, S.E., Vanegas-Arroyave, N., & Helgand, K.W. Rehabilitating Swallowing Safety and Cough Effectiveness in Parkinson's Disease: A Randomized Clinical Trial Comparing EMST and smTAP. Dysphagia Research Society. March, 2023. San Francisco, CA.

Curtis, J. A., Tabor-Gray, L., Arresse, L., **Borders, J. C.**, & Starmer, H. Concurrent and Criterion Validity of Using VASES to Derive DIGEST Grades when Rating Flexible Endoscopic Evaluations of Swallowing (FEES). Oral presentation at Dysphagia Research Society. March, 2023. San Francisco, CA.

Curtis, J. A., **Borders, J. C.**, Dakin, A. E., Troche, M. S. Visual Analysis of Swallowing Efficiency and Safety (VASES): Preliminary Norms from a Standardized FEES Protocol in Healthy Adults. Poster presentation at Dysphagia Research Society. March, 2023. San Francisco, CA.

Lowell, E. R., **Borders, J. C.**, Kuo, S. H., Perry, S.E., Dakin, A.E., Sevitz, J.S., & Troche, M. S., Disease Severity and Sensorimotor Cough Outcomes in Spinocerebellar Ataxia: A Cross-Sectional Study. Poster presentation at Dysphagia Research Society. March, 2023. San Francisco, CA.

Perry, S. E., **Borders, J. C.**, Kuo, S. H., Amlang, C., & Troche, M. S. The effect of dual tasking on cough sensorimotor outcomes in people with spinocerebellar ataxia. Dysphagia Research Society. March, 2023. San Francisco, CA.

Sevitz, J.S., **Borders, J.C.**, Dakin, A.E., Troche, M.S. Functional swallowing impairments do not predict swallowing-related quality of life in people with Parkinson's disease. Oral presentation at Dysphagia Research Society. March, 2023. San Francisco, CA.

2022

Schroeder, S., Gaeta, L., El Amin, M., Chow, J., & **Borders, J. C.** Do Journals in Speech-Language Pathology and Audiology Promote Transparent and Open Research? Oral presentation at the American Speech Language Hearing Association Annual Convention. November 2022. New Orleans, Louisiana.

**Borders, J.C.** & Troche, M.S. Effects of Expiratory Muscle Strength Training on Cough Peak Flow: A Meta-Analysis. Poster presentation at Dysphagia Research Society, March 2022, Online.

Sevitz, J.S., Perry, S.E., **Borders, J.C.**, Dakin, A.E., & Troche, M.S. The relationship between lingual strength and functional swallowing outcomes in Parkinson's disease. Oral Presentation at Dysphagia Research Society Annual Meeting. March 2022, Online.

Curtis, J.A., **Borders, J.C.**, Kiefer, B., Huber, J., & Troche, M.S. (2022). Influence of Swallowing Condition on Respiratory-Swallow Coordination in Parkinson's Disease: A Prospective Cohort Study. Oral presentation at the Dysphagia Research Society, March 2022, Online.

Curtis, J. A., **Borders, J.C.**, Dakin, A. E., & Troche, M. S. Exploring Relationships Between Auditory-Perceptual, Acoustic, and Endoscopic Measures of Cough in Healthy and Dysphagic Adults Poster presentation at the Dysphagia Research Society, March 2022, Online.

Curtis, J. A., **Borders, J.C.**, Dakin, A. E., & Troche, M. S. Relationship Between Person-Specific Factors and Respiratory-Swallow Coordination in Parkinson's Disease: A Cross-Sectional Analysis. Poster presentation at the Dysphagia Research Society, March 2022, Online.

2021

**Borders, J. C.**, Hegland, K. W., & Troche, M. S. Motor performance during cough rehabilitation in Parkinson's disease. Oral presentation at the European Society for Swallowing Disorders Conference, November 2021. Online.

**Borders, J. C.**, Grande, A. A., & Troche, M. S. Betrayed by aggregation: Maximum penetration-aspiration scale scores reduce statistical power and bias effect size estimates. Oral presentation at the European Society for Swallowing Disorders Conference, November 2021. Online.

Troche, M. S., Curtis, J. A., Dakin, A. E., Sevitz, J. S., **Borders, J. C.**, Perry, S. E., Vanegas-Arroyave, N., & Hegland, K. W. Sensorimotor training for airway protection (smTAP) versus expiratory muscle strength training (EMST) to rehabilitate cough and swallowing in Parkinson's disease: A clinical trial. Oral presentation at the European Society for Swallowing Disorders Conference, November 2021. Online.

Dakin, A. E., **Borders, J. C.**, Curtis, J. A., Hegland, K. W., & Troche, M. S. Does change in maximal expiratory pressure predict change in cough effectiveness after training? A secondary analysis of a randomized controlled trial. Oral presentation at the European Society for Swallowing Disorders Conference, November 2021. Online.

Curtis, J. A., **Borders, J. C.**, & Troche, M. S. Visual analysis of swallowing efficiency and safety (VASES): Establishing criterion-referenced validity and concurrent validity. Oral presentation at the European Society for Swallowing Disorders Conference, November 2021. Online.

Curtis, J. A., **Borders, J. C.**, Dakin, A. E., & Troche, M. S. Reliability of auditory-perceptual assessment of cough amongst novice clinicians. Poster presentation at the European Society for Swallowing Disorders Conference, November 2021. Online.

Amin, M., Long, H., **Borders, J. C.**, Keller, M., & Kearney, E. Open science practices in communication sciences and disorders. Oral presentation at the American Speech Language Hearing Association Annual Convention. November 2021. Washington, D.C.

**Borders, J. C.** & Troche, M. S. Statistical power and swallowing rehabilitation research: Current landscape and next steps. Poster presented at the Dysphagia Research Society's Annual Meeting, March 2021. Online.

**Borders, J. C.**, Curtis, J. A., & Troche, M. S. Is there a recency effect during visuoperceptual FEES analysis? Poster presented at the Dysphagia Research Society's Annual Meeting, March 2021. Online.



Curtis, J. A., **Borders, J. C.**, Dakin, A. E., & Troche, M. S. The role of aspiration amount on airway protective response in people with neurogenic dysphagia. Oral presentation at the Dysphagia Research Society's Annual Meeting, March 2021. Online.

Sevitz, J. S., Dakin, A. E., **Borders, J. C.**, & Troche, M. S. Feasibility of device-driven treatment approaches for airway protective deficits via telehealth. Oral presentation at the Dysphagia Research Society's Annual Meeting, March 2021. Online.

2020

**Borders, J. C.**, Curtis, J. A., Sevitz, J. S., Seikaly, Z., & Troche, M. S. Immediate effects of sensorimotor training in airway protection (smTAP) on cough outcomes in progressive supranuclear palsy. Oral presentation at the Dysphagia Research Society's Annual Meeting, May 2020. Online.

**Borders, J. C.** & Troche, M. S. Voluntary cough variability and airway invasion in Parkinson's Disease. Poster of merit at the Annual European Society for Swallowing Disorders Conference, October 2020. Online.

Curtis, J. A., **Borders, J. C.**, Perry, S. E., Dakin, A. E., Zeikaly, Z. N., & Troche, M. S. Visual analysis of swallowing efficiency and safety (VASES): A standardized rating methodology for measuring pharyngeal residue, penetration, and aspiration on FEES. Poster presented at the European Society for Swallowing Disorders Conference, October 2020. Online.

Enver, N., **Borders, J. C.**, Curtis, J. A., Sevitz, J. S., Vanegas-Arroyave, N., & Troche, M. S. The role of vocal fold bowing on cough and swallowing dysfunction in progressive supranuclear palsy. Oral presentation at the American Broncho-Esophagological Association's Annual Meeting, May 2020. Online.

Bolowsky, V., Hong, L., **Borders, J. C.**, Vallila-Rohter, S., & Arbel, Y. Strategy implementation and feedback processing in healthy young adults. Poster presented at the Annual Cognitive Neuroscience Society Conference, May 2020. Online.

Kitila, M., **Borders, J. C.**, & Pisegna, J. M. Reliability and confidence of penetration-aspiration scale ratings during flexible endoscopic evaluations of swallowing (FEES). Poster presented at the Dysphagia Research Society's Annual Meeting, May 2020. Online.

2019

Buckley, D., Tracy, L. F., **Borders, J. C.**, Norberg, E., & Pisegna, J. M. Muscle tension dysphagia: An expanded clinical picture. Oral presentation at the Fall Voice Conference. October 2019. Dallas, Texas.

O'Dea, M. B., **Borders, J. C.**, McNally, E., Norberg, E., Kitila, M., Walsh, M., Lui, R., & Pisegna, J. M. Inter- and intra-rater reliability of the laryngeal adductor reflex with the touch method during flexible endoscopic evaluation of swallowing. Poster presented at the European Society for Swallowing Disorders Annual Conference, September 2019. Vienna, Italy.

**Borders, J. C.** & Brates, D. Use of the penetration-aspiration scale in dysphagia research: A historical review. Oral presentation at the Dysphagia Research Society's Annual Meeting. March 2019. San Diego, California.

Ramirez, E., **Borders, J. C.**, Jijakli, A., & Pisegna, J. M. DHI responses are not associated with PAS scores from MBS. Poster presented at the Dysphagia Research Society's Annual Meeting, March 2019. San Diego, California.

- 2018 **Borders, J. C.**, Fink, D., Levitt, J. E., McKeehan, J., McNally, E., Rubio, A., ... Krisciunas, G. P. (2018). Relationship between laryngeal sensation, length of intubation, and aspiration in acute respiratory failure survivors. Oral presentation at the American Speech Language Hearing Association Annual Convention. November 2018. Boston, Massachusetts.
- Rogus-Pulia, N., Knigge, M., Young, B., **Borders, J. C.**, Thibeault, S. L., & Sattin, J. Effects of device-facilitated lingual strengthening therapy on swallowing related outcomes post-stroke: a pilot study. Poster presented at the Dysphagia Research Society's Annual Meeting, March 2018, Baltimore, Maryland.
- 2016 Piseigna, J. M., Kaneoka, A., **Borders, J. C.**, & Langmore, S. E. Clinician ratings of residue on FEES: Years of experience does not affect ratings. Poster presented at the European Society of Swallowing Disorders Annual Conference, October 2016, Milan, Italy.
- Borders, J. C.**, Arbel, Y., Zipse, L., & Vallila-Rohter, S. Feedback processing in paired associate declarative learning of linguistic and nonlinguistic paradigms. Poster presented at the Annual Cognitive Neuroscience Society Conference, April 2016, New York, New York.
- 2015 Jamal, W., Jin, D., Cardinaux, A., Tsourides, K., Jabeck, M. C., **Borders, J. C.**, Nejati, H., Gandhi, T. K., Kjelgaard, M., & Sinha, P. Reduced anticipatory responses during dynamic object interactions in autism. Poster presented at the International Meeting for Autism Research, May 2015, Salt Lake City, Utah.
- 2013 Schmidt, R. C., **Borders, J. C.**, & Hallahan, M. Does motor synchrony really create interpersonal cooperation? Poster presented at the Fifth Joint Action Meeting, July 2013 Berlin, Germany.
- Hallahan, M., **Borders, J. C.**, & Schmidt, R. C. Does motor synchrony really create interpersonal cooperation? Poster presented at the International Conference on Perception and Action, July 2013, Estoril, Portugal.

## Media

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- 2022 "Open Science in Dysphagia Research with James Borders", Dysphagia Matters podcast Episode #11, September 5, 2022

## Honors, Fellowships, and Scholarships

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- 2022 Council of Academic Programs in Communication Sciences and Disorders (CAPCSD) Doctoral Scholarship (\$25,000)
- 2021 ASHFoundation New Century Scholars Doctoral Scholarship (\$10,000)
- 2015 Christopher Norman Research Fund (\$150)
- 2012 Andrew W. Mellon Research Fellowship (\$5,000)
- 2023 ASHA Research Mentoring Network: Pathways Program
- 2022 Carol Neilson Wilder Scholar, Teachers College
- 2022 1st Place Scientific Abstract Poster Presentation, Dysphagia Research Society
- 2020 1st Place Scientific Abstract Oral Presentation, Dysphagia Research Society
- 2020 Springer Publishing Junior Investigator Travel Grant, Dysphagia Research Society
- 2016 Kenneth N. Stevens Student Research Award, MGH - Institute of Health Professions
- 2014 George J. Allen Psychology Award, College of the Holy Cross

2014 Laurent Clerc Deaf Studies Award, College of the Holy Cross

## Teaching

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2024 BBSQ 5130: Assessment and Intervention of Dysphagia  
Adjunct Professor, Teachers College

2020, 2023 BBSQ 5130: Assessment and Intervention of Dysphagia  
Teaching Assistant, Teachers College

2021, 2022 BBSQ 5940: Evaluation of Research in Speech-Language Pathology  
Adjunct Professor, Teachers College

## Professional Memberships

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2019 — New York State Speech Pathology License

2017 — Certificate of Clinical Competency, American Speech-Language-Hearing Association

2016 — Member, Dysphagia Research Society

2014 — Member, ASHA SIG 3: Swallowing and Swallowing Disorders

## Service

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Ad-hoc Journal Reviewer  
Dysphagia  
Archives of Physical Medicine and Rehabilitation  
Journal of Parkinson's Disease  
Journal of Telemedicine and Telecare  
Annals of Otolaryngology, Rhinology & Laryngology  
Annals of the American Thoracic Society  
The Laryngoscope  
International Journal of Speech-Language Pathology  
Head & Neck  
Journal of Speech, Language, and Hearing Research  
American Journal of Speech-Language Pathology  
JAMA-Otolaryngology  
Movement Disorders

2023 — Mentor for CSD PhD Students, LGBTQ+ CSDSA

2022 — 2023 Teachers College Tenure-Track Search Committee, Student Representative

2022 — 2024 Trainee Advisory Council Member, Dysphagia Research Society

2020 — Volunteer, CSDisseminate

2019, 2022, 2023 ASHA Topic Committee Reviewer, Swallowing Disorders in Adults