**CURRICULUM VITAE**

**LAURIE J. SLOVARP, Ph.D., CCC-SLP**

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# CAREER GOALS

* Obtain tenure in the School of Speech, Language, Hearing, and Occupational Sciences department at The University of Montana.
* Become a leading expert in the areas of swallowing, chronic cough, and voice disorders.
* Become a highly effective and respected professor and clinical researcher.
* Contribute to the understanding and care of swallowing, chronic cough, and voice disorders through conduction and publication of high-quality translational research that has a direct impact on patient care and quality of life.

# EDUCATION

2015 Ph.D. Independent Interdisciplinary Studies, University of Montana

2000 M.S. Speech and Hearing Science, Arizona State University

1996 B.S. Psychology, Idaho State University

# PROFESSIONAL AND CLINICAL EXPERIENCE

Aug ’11 – present School of Speech, Language, Hearing and Occupational Sciences,

The University of Montana

* Assistant Professor (2011); Associate Professor (2018)
* Instructor for graduate and undergraduate courses
* Clinical supervisor for voice, cough, and swallowing clinic at Rocky Mountain ENT Center

Jan ’10 – Aug ‘11 Department of Communicative Sciences and Disorders,

The University of Montana

* Adjunct Professor
* Instructor for graduate and undergraduate courses
* Clinical supervisor

Jan ’08 – Aug ‘12 Advanced Speech Therapy, Inc., Missoula, Montana

* President and owner
* Contract speech therapy services to local and surrounding nursing homes and hospitals as well as provide out-patient dysphagia and voice therapy

May ’05 – Jul ‘16 Community Medical Center, Missoula, Montana

* PRN therapist, covering all adult communication and swallowing disorders in the acute, acute rehab, and outpatient setting

May ’05 – Sep ‘08 Evergreen Health and Rehabilitation, Western Montana

* Therapist for long-term care facilities and rural hospitals

Aug ’04 – May ‘05 Arizona State University Department of Speech and Hearing Sciences

* Clinical Assistant Professor
* Instructor for graduate and undergraduate courses in acquired communication disorders
* Clinical supervisor for adult communication disorders and voice disorders, including videostroboscopy

Apr ’04 – Apr ‘05 East Valley Speech Pathology Associates: Tempe, Arizona

* Acute and outpatient therapist at Chandler Regional Hospital and private office
* Home Health Therapist
* Intern supervisor for Arizona State and Northern Arizona State University

Apr ‘03 – Mar ’04 Community Medical Center: Missoula, Montana (as described above)

Apr ’00 – Mar ‘03 East Valley Speech Pathology Associates (as described above)

May ’02 – June ’02 Arizona State University Department of Speech and Hearing Sciences

* Adjunct Professor
* Instructor for Voice Disorders course.

# TEACHING EXPERIENCE

*Clinical Procedures* (graduate), UM, every semester since spring 2010

*Voice, Motor Speech, and Resonance Disorders* (graduate), UM, fall semesters since 2015

*Swallowing Disorders* (graduate), UM, spring semesters since 2010

*Voice and Motor Speech Disorders* (graduate), UM, fall semesters 2011 – 2014

*Neuroanatomy and Physiology* (undergraduate), UM, Spr 2011, Su 2012, Su 2014, Spr 2016, Su 2016, Su 2017, Su 2018, Spr 2019, Su 2019

*Neurocognitive Communication Disorders in Adults* (graduate), UM, F 2010

*Aphasia and Related Neurogenic Language Disorders* (graduate), ASU, F 2004

*Acquired Speech and Language Disorders* (undergraduate/graduate), ASU, Spr 2005

*Disorders of Voice* (graduate), ASU, Su 2002

# CERTIFICATIONS/HONORS

February 2016 ASHA Research Mentoring Network: Pathways Program Award

Jan 2014 - Dec 2018 Board Certified Specialist in Swallowing and Swallowing Disorders

September 2013 ASHA Protégé-Mentor Research Award

February 2011 Lee Silverman Voice Therapy

January 2009 Board Recognized Specialist in Swallowing and Swallowing Disorders

May 2003 UDS/FIM certified

November 2003 VitalStim dysphagia treatment certified

# MANUSCRIPT PEER REVIEWER INVITATIONS

March 2017 ASHA Swallowing Special Interest Group (SIG) 13 Perspectives Journal

June 2017 ASHA Swallowing Special Interest Group (SIG) 13 Perspectives Journal

March 2016 Dysphagia Journal

Nov 2014 Dysphagia Journal

# SCHOLARLY PRESENTATIONS, PUBLICATIONS, & RESEARCH

\*Indicates student mentored project

## Invited Presentations

**Slovarp, L.** (2019, April). *Refractory Chronic Cough and the Role of Behavioral Cough Therapy.* UM Health Seminar

**Slovarp, L.** (2019, February). *Refractory Chronic Cough and the Role of Behavioral Cough Suppression Therapy.* Big Sky ENT Annual meeting, Big Sky, MT

**Slovarp, L.** (2018, October). *Behavioral voice evaluation for the irritable larynx*. Oral presentation, Fall Voice annual conference, Seattle, WA.

**Slovarp, L.** (2018, June). *Refractory Chronic Cough and the Role of Behavioral Cough Suppression Therapy*. Rocky Mountain ENT Clinic, Missoula, MT

**Slovarp, L.** (2017, June). *Behavioral Cough Suppression Therapy for Patients with Refractory Chronic Cough.* Utah Otolaryngology Update, Salt Lake City.

**Slovarp, L.** (2017, May). *Refractory Chronic Cough and the Role of Behavioral Cough Suppression Therapy.* Friday Medical Conference, Missoula, MT.

**Slovarp, L.** (2017, May). *Development of the Montana Screen for Behavioral Cough Suppression Therapy*. Clinical Translational Research and Infrastructure Network (CTRIN). Annual Convention, Las Vegas.

**Slovarp, L.** (2017, February). *“Not Another Cough Patient” Said No SLP Ever*. 12th Annual Advanced Practices in Voice and Dysphagia, Las Vegas.

**Slovarp, L.** (2015, October). *Critical Appraisal of Research; NMES: Current State of the Evidence, Unanswered Questions, Concerns; PVFD/VCD and Chronic Cough: Related Disorders?; Functional Voice Disorders: Review of Primary and Secondary MTD; Principles of Strength Training as they Apply to Dysphagia Therapy.* Montana Speech and Hearing Association Annual Convention: Billings, MT.

**Slovarp, L.** (2013, October). *Prophylactic Swallowing Intervention for Patients with Head and Neck Cancer Treated with Chemoradiation Therapy*. MontanaSpeechand Hearing Association Annual Convention, Bozeman, MT.

**Slovarp, L.** (2012, August). *Swallowing Disorders: A Review of General Practices for Assessment and Intervention*. Montana Speech and Hearing AssociationSummer Institute, Missoula, MT.

**Slovarp, L.** (2012, March). V*oice and Swallowing Therapy for Patients with* Parkinson’s Disease Symposium, Kalispell, MT

**Slovarp, L.** Elliot, S. (2007, April). D*ysphagia and Acquired Brain Injury*, *Aspiration Pneumonia: How Important is Dysphagia; Oral Care: How It Relates to Aspiration Pneumonia and Best Practice; Free Water Protocols; Dysphagia Myths and Misconceptions.* 15th Annual Northern Rockies Rehabilitation Symposium, Missoula, MT

Peer-Reviewed Presentations

**Slovarp, L.** (2019, October). *Refractory chronic cough desensitization: A randomized, placebo-controlled trial.* Oral presentation at Fall Voice annual conference, Dallas, TX

**\*Slovarp, L.,** Reynolds, J., Popp, S. (2019, October). *Investigating the underlying mechanisms responsible for the effectiveness of behavioral cough suppression therapy*. Poster presentation at Fall Voice annual conference, Dallas, TX

**Slovarp, L.** (2018, October). *Assessing feasibility of treating cough hypersensitivity with progressive desensitization paired with behavioral cough suppression therapy*. Oral presentation at Fall Voice annual conference, Seattle, WA

**\*Slovarp, L.,** Bozarth, E.(2018, October). *Patient-related variables that predict the success of behavioral cough suppression therapy.* Poster presentation at Fall Voice annual conference, Seattle, WA

**Slovarp, L.** (2017, November). *Assessing the need and feasibility of a behavioral cough*

*suppression therapy (BCST) screening tool*. Oral presentation at American Speech Hearing Association Annual Convention, Los Angeles, CA.

\*Bozarth, E., Popp, S., **Slovarp, L.,** (2017, October). *The Use of Capsaicin for*

*Desensitization of the Cough Reflex.* Poster presentation at Montana Speech Hearing Association (MSHA) Annual Convention, Missoula, MT.

\*Haller, S., Hutton, L. **Slovarp, L.** (2017, October). *The Role of Behavioral Cough*

*Suppression Therapy in the Treatment of Cough Hypersensitivity Syndrome (CHS).* Poster presentation at Montana Speech Hearing Association (MSHA) Annual Convention, Missoula, MT.

**Slovarp, L.** (2017, June). *Assessing the need and feasibility of the a behavioral cough*

*suppression therapy (BCST) screening tool*. Oral presentation at American Cough

Conference, Reston, VI.

**\*Slovarp, L.,** Loomis, B.(2016, November). *Patient-Reported Variables Related to Success*

*of Behavioral Cough Suppression Therapy (BCST) in Patients with Refractory Chronic Cough (RCC).* Oral presentation at Fall Voice conference, Scottsdale, AZ.

\*Bozarth, E., Popp, S., **Slovarp, L.,** (2016, October). *Patient-Reported Variables Related to*

*Success of Behavioral Cough Suppression Therapy (BCST) in Patients with Refractory Chronic Cough (RCC).* Poster presentation at Montana Speech Hearing Association (MSHA) Annual Convention, Helena, MT.

**Slovarp, L.** (2016, February). *Contrasting Two Prophylactic-Dysphagia*

*Interventions for Patients with Head and Neck Cancer Treated with Radiotherapy with or without Adjunctive Chemotherapy*. Oral presentation at the Dysphagia Research Society, Tucson, AZ.

\***Slovarp, L.**, King, L. (2016, February). *Assessing the Feasibility of Two Novel Tongue*

*Base Resistance Exercises*. Oral presentation at the 2016 Dysphagia Research Society. Tucson, AZ.

**\*Slovarp, L.,** Danielson, J., Murphy, M.(2015, March). *Assessing the Influence of Modified*

*Barium Swallow Study Reports on Clinicians’ Treatment Recommendations.* Poster session presented at the Dysphagia Research Society, Chicago, IL.

**Slovarp, L.** & Stack, S. (2014, November). *Prophylactic-Dysphagia Intervention for Patients*

*with Head and Neck Cancer Receiving Radiation Therapy with or without Adjunctive Chemotherapy.* Poster session presented at the American Speech Hearing Association Annual Convention, Orlando, FL.

**Slovarp, L**., & Danielson, J. (2013, November). *Assessing the influence of modified barium*

*swallow study reports on clinicians’ treatment recommendations.* Poster session presented at the American Speech Hearing Association Annual Convention, Chicago, IL.

## Peer-Reviewed Publications

\*\*Indicates invited publication

**\*\*Slovarp, L.,** Vertigan, A. (in press). When the Coughing Won’t Stop. *ASHA Leader.*

\*\*Vertigan, A., Haines, J., **Slovarp, L**., (2019). Speech pathology treatment for chronic refractory cough. *Journal of Allergy and Clinical Immunology: In Practice*, 7, 156-62. doi: 10.1016/j.jaip.2019.03.030

**Slovarp, L.,** Bozarth, E. (2019). Altering cough reflex sensitivity with aerosolized capsaicin paired with behavioral cough suppression: A proof-of-concept study. *Annals of Translational Medicine*, 7(1): 7. doi: 10.21037/atm.2018.12.26

**Slovarp, L.**, Danielson, J., Liss, J. (2018). Intra-rater agreement of clinician’s

treatment recommendations based on modified barium swallow study reports. *Dysphagia*. <https://doi.org/10.1007/s00455-018-9907-6>

**Slovarp, L.,** Loomis, B., Glaspey, A. (2018). Assessing need and feasibility of a

behavioral cough suppression therapy screening tool. *Chronic Respiratory Diseases*, 15(3), 296-503. <https://doi.org/10.1177/1479972318755722>

**Slovarp, L.,** (2018). Assessing need and feasibility of a behavioral cough suppression therapy (BCST) screening tool [Abstract]. *Lung*, *196*, 83-85, doi 10.1007/s00408-018-0088-8

**Slovarp, L.,** King, L.,Off, C., Liss, J. (2016). A pilot study of the tongue pull-back exercise

for improving tongue-base retraction and two novel methods to add resistance to the tongue pull-back. *Dysphagia*, *31*, 416-523.

**Slovarp, L.,** Off, C., Liss, J., (2015). Contrasting two prophylactic dysphagia interventions

for patients with head and neck cancer treated with radiotherapy with or without

adjunctive chemotherapy (Dissertation). Available from ProQuest Dissertations and

Theses database (ID no. 10375)

**Slovarp, L**., Azuma, T., & LaPointe, L. (2012). The effect of traumatic brain injury on

sustained attention and working memory. *Brain Injury*, 26(1), 48-57.

## Master’s Thesis

**Baker, L.** Sustained attention and working memory following traumatic brain injury. Arizona State University. August 2000.

## Mentored Theses Projects

* *Programmatic Desensitization of the Cough Reflex in Patients with Refractory Chronic Cough.* Projected defense in Spring 2020 by Emma Bozarth.
* *Patient-reported variables associated with success of behavioral intervention for patients with chronic cough.* Defended by Bridget Loomis May 2016.
* *The effect of clinician-related variables on decision-making in dysphagia practice.* Defended by Melissa Murphy Spring 2014.
* *Dysphagia treatment planning: Assessing clinician’s treatment recommendations based on modified barium swallow study reports*. Defended by Jennifer Danielson Summer 2012.
* *Prophylactic-dysphagia intervention for patients with head and neck cancer receiving chemoradiation therapy*. Defended by Shanna Stack Spring 2013.

## Current Ongoing Research Projects

* *Investigating the mechanism responsible for the effect of behavioral cough suppression therapy (BCST) by quantifying TRPV1 receptor expression in laryngeal biopsies pre and post BCST*
* *Using exposure to aerosolized capsaicin paired with behavioral cough suppression to progressively desensitize the cough reflex* (FDA regulated clinical trial)
* *Development of a screening tool to identify patients with chronic cough who are candidates for behavioral cough therapy*
* *Contrasting two types of prophylactic-dysphagia treatment in patients with head and neck cancer treated with radiation with or without adjunctive chemotherapy*.

## Grants

* National Institute of General Medical Sciences sub-award P20GM103474 (Montana IDeA Network of Biomedical Research Excellence), Slovarp (PI) 07/01/19 – 04/30/20, *Progressive Desensitization Paired with Behavioral Cough Therapy for the Treatment of Chronic Cough*

$58,000

* University of Montana Small Grant 325492, Slovarp (PI) 05/01/19 – 08/31/20, *Investigating the Mechanism Responsible for the Effect of Behavioral Cough Therapy*

$4,992

* National Institute of General Medical Sciences sub-award 362948 (Developmental Translational Team Grant), Slovarp (PI) 4/13/19 – 06/30/19, *Developing Proof-of-Concept to Investigate the Mechanism Responsible for Behavioral Cough Therapy*

$20,996

* University of Montana Small Grant 325454, Slovarp (PI) 05/01/17 – 08/31/18, *Development of the Montana Screen for Behavioral Cough Therapy*.

$4998

* National Institute of General Medical Sciences sub-award 4U54GM104944-4, 17-746Q-UM-PG55-00, Slovarp (PI) 06/01/16 – 06/30/17 CTR-IN Pilot Grant: *Development of the Montana Screen for Behavioral Cough Therapy.*

$67,650

* National Institute of General Medical Sciences sub-award 1U54GM104944-2, 14-746Q-UMT-MG8-00, Slovarp (PI) 03/11/15 – 06/30/15, CTR-IN Mini Grant: *Developing the Montana Screen for Behavioral Cough Therapy – Assessing Feasibility*.

$9015.

## Research Interests

* Treatment for refractory chronic cough
* Understanding neurologic mechanisms in refractory chronic cough
* Upper airway disorders
* Voice disorders
* Swallowing disorders

# CONFERENCES/SEMINARS ATTENDED

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| Oct 2019 | Fall Voice, 2019 |
| Oct 2019 | NIH IDeA Western Regional Conference in Las Vegas, NV |
| Sept 2019 | Montana INBRE Research & Career Enhancement Workshop, Bozeman, MT |
| June 2019 | Mountain West Clinical Translational Research – Infrastructure Network  (CTR-IN) Annual Conference, Las Vegas, NV |
| Nov 2018 | American Speech Language Hearing Association Annual Convention, Boston, MA |
| Oct 2019 | Fall Voice, Seattle, WA |
| June 2018 | Mountain West Clinical Translational Research – Infrastructure Network (CTR-IN) Annual Conference, Las Vegas, NV |
| Nov 2017 | American Speech Language Hearing Association Annual Convention, Los Angeles, CA |
| June 2017 | American Cough Conference, Reston, VI |
| May 2017 | Mountain West Clinical Translational Research – Infrastructure Network (CTR-IN) Annual Conference, Las Vegas, NV |
| Feb 2017 | 12th Annual Advanced Practices in Voice and Dysphagia, Las Vegas, NV |
| Oct 2016 | Montana Speech Hearing Association Annual Convention, Helena, MT |
| Oct 2016 | Fall Voice, Scottsdale, AZ |
| Feb 2016 | Dysphagia Research Society, Tucson, AZ |
| Feb 2016 | 11th Annual Advanced Practices in Voice and Dysphagia, Las Vegas, NV |
| March 2015 | Dysphagia Research Society, Chicago, IL |
| Nov 2014 | American Speech Hearing Association Annual Convention, Orlando, FL |
| Oct 2014 | Montana Speech Hearing Association Annual Convention, Missoula, MT |
| Feb 2014 | 9th Annual Advanced Practices in Voice and Dysphagia, Las Vegas, NV |
| Nov 2013 | American Speech Language Hearing Association Annual Convention, Chicago, IL |
| July 2013 | Transgender Voice/Communication Therapy, New York City |
| Feb 2013 | 8th Annual Advanced Practices in Voice and Dysphagia, Las Vegas, NV |
| Feb 2012 | 7th Annual Advanced Practices in Voice and Dysphagia, Las Vegas, NV |
| Feb 2011 | Lee Silverman Voice Treatment certification course, Scottsdale, AZ |
| Oct 2010 | Montana Speech-Language-Hearing Association Annual Convention |
| Feb 2010 | 5th Annual Advanced Practices in Voice and Dysphagia, Las Vegas, NV |
| April 2009 | ASHA Healthcare and Business Institute, Washington, DC |
| Feb 2008 | 3rd Annual Advanced Practices in Voice and Swallowing Disorders |
| Aug 2007 | The Dysphagia Patient: Modified Barium Swallow and Therapeutic Intervention |
| April 2007 | 15th Annual Northern Rockies Rehabilitation Symposium: *A Systemic Approach to Neurological Rehabilitation of CVA and TBI* |
| Feb 2007 | Medical Aspects of Swallowing Advanced dysphagia course, primarily esophageal dysphagia |
| Feb 2007 | Endoscopic Assessment of Swallowing Advanced dysphagia course on fiberoptic endoscopic evaluation of swallowing (FEES) |
| Feb 2006 | 1st Annual Advanced Practices in Dysphagia Assessment and Treatment |
| Sept 2005 | Brain Injury Assoc. of Montana Annual Conference |
| Feb 2005 | Arizona Speech-Language-Hearing Assoc. Annual Convention |
| Nov 2003 | VitalStim Therapy for Swallowing Disorders |
| Feb 2002 | Neuromuscular Electrical Stimulation for Muscle Re-education of the Submandibular Triangle |
| Sept 2001 | Pediatric Stuttering |
| Oct 2000 | Medical Implications in the Field of Speech-Language Pathology |
| March 2000 | Speech Dynamic Incorporated: Oral Motor Analysis and Remediation |
| Feb 2000 | Exploring the Possibilities of the *DeltaTalker* (AAC device) |
| Jan 2000 | Exploring Unity 128 Version: Language for Life (AAC language) |
| Oct 1999 | Fiberoptic Endoscopic Evaluation of Swallowing (FEES): A Procedure for Evaluating Oropharyngeal Dysphagia |
| Oct 1999 | 2nd Annual Symposium on Cognitive Disorders |
| May 1999 | 1st Annual National Medical Speech Language Pathology Conference |
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# PROFESSIONAL REFERENCES

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| --- | --- |
| Julie Barkmeier-Kraemer, PhD, CCC-SLP  Professor  Voice Disorder Center Clinic Director  Surgical Specialty Center  729 Arapeen Dr.  Salt Lake City, UT 84108  (801) 587-8368  Jeffrey Haller, M.D., E.N.T.  Rocky Mountain Ear, Nose, and Throat  Associate Professor  University of Washington  700 West Kent  Missoula, MT 59801  (406) 541-3277 | Eric Stern, MD  Community Medical Center  2827 Fort Missoula, Rd.  Missoula, MT 59804  (406) 327-3819  Julie Wolter, Ph.D., CCC-SLP  Department Chair  School of Speech, Lang., Hearing, and OT  The University of Montana  Julie.Wolter@umontana.edu  (406) 243-2106 |