

CURRICULUM VITAE

BIOGRAPHICAL

Name: Brooke N. Klatt, PhD, PT, DPT

Business Address: 100 Technology Drive, Suite 210, Pittsburgh, PA 15219

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EDUCATION and TRAINING

UNDERGRADUATE: Penn State University – University Park, PA
1997 – 2001
B.S., Kinesiology – Movement Science

GRADUATE: New York University – New York, NY
2002 – 2005
Doctorate of Physical Therapy

DOCTORAL: University of Pittsburgh – Pittsburgh, PA (Mentor: Susan Whitney, PhD, DPT, FAPTA)
Aug 2013 – Dec 2017
School of Health & Rehabilitation Sciences, Physical Therapy Department
PhD Dissertation Title: “*The Effect of Vibrotactile Feedback during Balance and Vestibular Rehabilitation on Functional Balance Outcomes*”

FELLOWSHIP: Johns Hopkins University – Baltimore, MD (Mentor: Yuri Agrawal, MD, MPH)
Feb 2018 – Oct 2019
School of Medicine, Department of Otolaryngology – Head and Neck Surgery
Postdoctoral Research Project: “*Impact of Cognition on Vestibular Physical Therapy*”

CERTIFICATE: University of Pittsburgh – Pittsburgh, PA
July 2022 –
Clinical Research Certificate – Institute for Clinical Research Education

APPOINTMENTS and POSITIONS

ACADEMIC:

Oct. 2011 – Aug. 2013
Adjunct Clinical Faculty
University of Pittsburgh Department of Physical Therapy – Pittsburgh, PA

Aug. 2013 – July 2015
Graduate Research Assistant
University of Pittsburgh Department of Physical Therapy – Pittsburgh, PA

July 2015 – June 2017
Pre-doctoral Scholar
University of Pittsburgh Department of Otolaryngology – Pittsburgh, PA

Feb. 2018 – Oct. 2019
Postdoctoral Research Fellow
Johns Hopkins University Department of Otolaryngology – Baltimore, MD

Nov. 2019 – present
Assistant Professor
University of Pittsburgh Department of Physical Therapy – Pittsburgh, PA

April 2022 – present
Graduate Research Faculty
University of Pittsburgh School of Health and Rehabilitation Sciences – Pittsburgh, PA

NON-ACADEMIC:

Sept. 2005 – July 2009	Staff Physical Therapist – acute care/outpatient UPMC Centers for Rehab Services - Shadyside Hospital – Pittsburgh, PA
Nov. 2008 – Aug. 2013	Neurological and Vestibular Physical Therapist – outpatient UPMC Centers for Rehab Services - St. Margaret Chapel Harbor – Pittsburgh, PA
Aug. 2013 – present	Neurological and Vestibular Physical Therapist – casual staff UPMC Centers for Rehab Services – Pittsburgh, PA

LICENSURE

Licensed Physical Therapist with the Commonwealth of Pennsylvania (PT017981)

CERTIFICATIONS

October 2007	Certified Clinical Instructor American Physical Therapy Association
April 2008	Certification of Vestibular Rehabilitation Competency Based Course – Emory University
March 2010	Board Certified Clinical Specialist in Neurologic Physical Therapy American Board of Physical Therapy Specialties <i>Recertification awarded March 2019</i>
June 2012	Advanced Credentialed Clinical Instructor American Physical Therapy Association
Current	BLS for Healthcare Providers (CPR & AED) American Heart Association

PROFESSIONAL MEMBERSHIPS

Organization	Year
American Physical Therapy Association	2002 – present
Academy of Neurology member (Vestibular Special Interest Group)	2008 – present
Academy of Geriatric Physical Therapy member	2016 – present
Research Section member	2017 – present
Pennsylvania Physical Therapy Association	2005 – present
International Barany Society	2020 – present
International Society of Posture & Gait Research	2022 – present

HONORS

Title of Honor/Award	Year
Academic All-Big Ten, Penn State Women's Swimming	1998 – 2001
Co-Captain, Penn State Women's Swimming	2000 – 2001

Karen Walizer Service Award, Penn State Women's Swimming	2001
Salt Lake City Olympic Games Torchbearer in 2002 Torch Relay	2002
New York University Department of Physical Therapy Salant Scholars Award	2005 – 2008
UPMC Shadyside Above & Beyond Honorable Mention	2008
Jonas Salk Fellowship – Jewish Healthcare Foundation, Pittsburgh, PA	2016 (Sept – Nov)
Academy of Geriatric Physical Therapy Geriatric Research Fellowship Award	2019
Induction to International Barany Society for Vestibular Researchers	2020
Mothers Leading Science Leadership Development Scholar	2022 – 2023
University of Pittsburgh (ICRE) Supporting our Scientists Award	2022 – 2023
Induction to the Seneca Valley High School Sports Hall of Fame	2023

PUBLICATIONS

Refereed articles:

1. Winser S, Smith CM, Hale LA, Claydon LS, Whitney SL, **Klatt BN**, Mottershead J, Zaydan I, Heyman R. Balance assessment in Multiple Sclerosis and Cerebellar Ataxia: rationale, protocol and demographic data. *Phys Med Rehabil Int.* 2014; 1(5): ISSN:2471-03776.
2. **Klatt BN**, Carender W, Lin CC, Alsubaie S, Kinnaird CR, Sienko KH, Whitney SL. A conceptual framework for the progression of balance exercises in persons with balance and vestibular disorders. *Phys Med Rehabil Int.* 2015; 2(4):1044. PMID: 27489886.
3. Winser S, Smith CM, Hale LA, Claydon LS, Whitney SL, **Klatt BN**, Mottershead J, Zaydan I, Heyman R. Psychometric properties of a core set of measures of balance for people with cerebellar ataxia secondary to Multiple Sclerosis. *Arch Phys Med Rehabil.* 2017; 98(2):270-276. PMID: 27577181.
4. **Klatt BN**, Sparto PJ, Terhorst L, Winser S, Heyman R, Whitney SL. Relationship between subjective visual vertical and balance in individuals with multiple sclerosis. *Physiother Res Int.* 2019; 24(1):e1757. PMID: 30403321.
5. Bao T, **Klatt BN**, Whitney SL, Sienko KH, Wiens J. Automatically evaluating balance: a machine learning approach. *IEEE Trans Neural Syst Rehabil Eng.* 2019; 27(2):179-186. doi: 10.1109/TNSRE.2019.2891000. PMID: 30624218.
6. **Klatt BN**, Ries JD, Dunlap PM, Whitney SL, Agrawal Y. Vestibular physical therapy for cognitive impairment: a theoretical framework. *J Neurol Phys Ther.* 2019; 43(Suppl 2):S14-9. PMID: 30883488.
7. Alsubaie S, Whitney SL, Furman JM, Marchetti GF, Sienko KH, **Klatt BN**, Sparto PJ. Reliability and validity of ratings of perceived difficulty during performance of static standing balance exercises. *Phys Ther.* 2019; 99(10):1381-1393. doi: 10.1093/ptj/pzz091. PMID: 31309968.
8. Bao T, **Klatt BN**, Carender WJ, Kinnaird C, Alsubaie S, Whitney SL, Sienko KH. Effects of long-term vestibular rehabilitation therapy with vibrotactile sensory augmentation for people with unilateral vestibular disorders – a randomized preliminary study. *J Vestib Res.* 2019; 29(6):323-334. doi: 10.3233/VES-190683. PMID: 31609716.
9. Pineault K, Pearson D, Wei E, Kamil R, **Klatt BN**, Agrawal Y. Association between saccule and semicircular canal impairment and cognitive performance among vestibular patients. *Ear Hear.* 2020; 41(3):686-692. doi: 10.1097/AUD.0000000000000795. PMID: 31567562.
10. Hoppes CW, **Klatt BN**, Dunlap PM, Jacks B, Whitney SL. Management of Benign Paroxysmal Positional Vertigo in an adult with severe Osteogenesis Imperfecta. *Laryngoscope.* 2020; 130(9):2241-2244. DOI: 10.1002/lary.28431. PMID: 31800107.
11. Gandhi P, **Klatt BN**, Agrawal Y. Physical and vestibular physical therapy referrals in people with Alzheimer Disease. *Alzheimer Dis Assoc Disord.* 2021; 35(2):169-171. doi: 10.1097/WAD0000000000000390. PMID: 32467425.
12. **Klatt BN** & Anson ER. Navigating through a COVID world: avoiding obstacles. *J Neurol Phys Ther.* 2021; 45(1):36-40. doi: 10.1097/NPT.0000000000000338. PMID: 33201008.
13. Gandhi P, Biju K, **Klatt BN**, Simonsick E, Agrawal Y. Self-reported sense of direction and vestibular function in the Baltimore Longitudinal Study of Aging (BLSA). *J Assoc Res Otolaryngol.* 2021; 22(2):207-214. doi: 10.1007/s10162-020-00780-1. PMID: 33449237.
14. **Klatt BN**, Sparto PJ, Hoppes CW, Brandfass K, Whitney SL. A survey of assessment of anxiety, depression, and visual dependence in neurologic and geriatric physical therapy practices. *J Physiother Res.* 2021; 5(3):16.

15. Dunlap PM, Sparto PJ, Marchetti GF, Furman JM, Staab JP, Delitto A, **Klatt BN**, Whitney, SL. Fear avoidance beliefs are associated with disability in persons with vestibular disorders. *Phys Ther.* 2021; 101(9):pzab147. Doi: 10.1093/ptj/pzab147. PMID: 34120180.
16. Hoppes CW, Lambert KH, **Klatt BN**, Whitney SL. Vestibular physical therapy treatment of individuals exposed to directed energy. *Mil Med.* 2021; 22:usab202. Doi: 10.1093/milmed/usab202. PMID: 34027970.
17. Whitney SL, Hoppes CW, Lambert KH, **Klatt BN**. Physical therapy treatment of a person exposed to directed energy: a case report. *Mil Med.* 2021; doi: 10.1093/milmed/usab256. PMID: 34226935.
18. D’Silva L, Skop KM, Penn J, **Klatt BN**, Gallagher S. Advocacy for telehealth services: a commentary from the vestibular rehabilitation taskforce. *PTJ-PAL.* 2021;
19. Dunlap PM, Rosso AL, Zhu X, **Klatt BN**, Brach JS. The association of mobility determinants and life space among older adults. *J Gerontol A Biol Sci Med Sci.* 2021; doi:10.1093/gerona/glab268. PMID: 34529773.
20. Critelli K, Demiris V, **Klatt BN**, Crane B, Anson ER. Facemasks block lower visual field in youth ice hockey. *Front Sports Act Living.* 2021; 6(3):787182. doi:10.3389/fspor.2021.787182. PMID: 34939030.
21. Hovareshti P, Roeder S, Holt LS, Gao P, Xiao L, Zalkin C, Ou V, Tolani D, **Klatt BN**, Whitney SL. VestAid: a tablet-based technology for objective exercise monitoring in vestibular rehabilitation. *Sensors.* 2021; 21(24):8388. doi: 10.3390/s21248388. PMID: 34960480.
22. Shaaban CE, Fan E, **Klatt BN**, Cohen AD, Snitz BE, Zheming Y, Lopresti BJ, Villemagne VL, Klunk WE, Aizenstein HJ, Rosso AL. Brain health correlates of mobility-related confidence. *Exp Gerontol.* 2022; 15;163:111776. doi: 10.1016/j.exger.2022.111776. PMID: 35339632.
23. Whitney SL, Ou V, Hovareshti P, Costa CM, Cassidy AR, Dunlap PM, Roeder S, Holt L, Tolani D, **Klatt BN**, Hoppes CW. Utility of VestAid to detect eye-gaze accuracy in a participant exposed to directed energy. *Mil Med.* 2022; doi: 10.1093. PMID: 36208334.

BOOK CHAPTER

Kaski D, **Klatt BN**, and Furman JM. Dizziness and Imbalance in the Elderly. *Oxford Textbook of Vertigo and Imbalance*, 2nd edition, edited by Adolfo Bronstein.

Hoppes CW, **Klatt BN**, Whitney SL. (2016). Diagnosing and Treating Acute Dizziness: A Vestibular Case Study Approach. IV Step eBook.

PRESENTATIONS AT PROFESSIONAL MEETINGS:

National

1. **Klatt BN**, Carender W, Lin CC, Alsubaie S, Kinnaird CR, Sienko; KH, Whitney SL. A conceptual framework for the progression of balance exercises in persons with balance and vestibular disorders. American Physical Therapy Association, Combined Sections Meeting, Indianapolis, IN, February 4-7, 2015. Poster.
2. **Klatt BN**, Sparto PJ, Terhorst L, Winser S, Heyman R, Zaydan I, Whitney SL. Relationship between subjective visual vertical and balance in individuals with multiple sclerosis. American Physical Therapy Association, Combined Sections Meeting, Anaheim, CA, February 18-20, 2016. Poster.
3. **Klatt BN**, Bao T, Carender W, Kinnaird CR, Sienko KH, Whitney SL. Short-term outcomes for two individuals with vestibular hypofunction following the application of vibrotactile feedback during vestibular rehabilitation. IV STEP Conference, the Ohio State University, Columbus, OH, July 17, 2016. Poster.
4. Carender W, Kinnaird C, **Klatt BN**, Bao T, Whitney SL, Sienko K. Balance telerehabilitation using vibrotactile sensory augmentation for treatment of persons with vestibulopathy: two cases. American Physical Therapy Association, Combined Sections Meeting, San Antonio, TX, February 15-18, 2017. Poster.
5. **Klatt BN** and Whitney SL. The importance of recognizing Persistent Postural-Perceptual Dizziness in patients with balance disorders: a case report. American Physical Therapy Association, Combined Sections Meeting, San Antonio, TX, February 15-18, 2017. Poster.
6. **Klatt BN**, Sparto PJ, Hoppes CW, Brandfass K, Whitney SL. The Assessment of Anxiety, Depression, and Visual Dependency in Neurologic Physical Therapy: A Know/Do Gap Assessment. CoHSTAR poster session – Summer Institute APTA NEXT Conference and Exhibition. June 21, 2017. Poster.

7. **Klatt BN**, Bao T, Carender WJ, Kinnaird CR, Sienko KH, and Whitney SL. Effects of Vibrotactile Feedback during Balance Training in People with Peripheral Neuropathy. American Physical Therapy Association, Combined Sections Meeting, New Orleans, LA, February 21-24, 2018. Poster.
8. **Klatt BN**, Ries JD, Dunlap PM, Whitney SL, Agrawal Y. Vestibular physical therapy for cognitive impairment: a theoretical framework. Vestibular Oriented Research Meeting. Dayton, OH. May 19-22, 2019. Poster
9. Alshebber KM, Hoppes CW, Dunlap PM, **Klatt BN**, Rosso AL, Sparto PJ, Furman JM, Huppert T, Whitney SL. Fear-Avoidance and Lifespace in Individuals with and without Visual Vertigo. American Physical Therapy Association, Combined Sections Meeting, Denver, CO, February 13-15, 2020. Poster.
10. Costa C, Dunlap PM, Hoppes CW, **Klatt BN**, Sparto PJ, Furman JM, Whitney SL. Is Life Space Related to Self-Perceived Handicap Among Patients with Visual Vertigo? A Cross-Sectional Study. American Physical Therapy Association, Combined Sections Meeting, Virtual Event, February 2021. Poster.
11. Dunlap PM, Rosso AL, Zhu X, **Klatt BN**, Brach JS. The Association between Mobility Determinants and Life Space Among Older Adults. American Physical Therapy Association, Combined Sections Meeting, Virtual Event, February 2021. Poster.
12. **Klatt BN**, Perera S, Dunlap PM, Rosso AL, Brach JS. Longitudinal Tracking of Falls in Community Dwelling Older Adults in Using Activity and Participation Level Predictors. American Physical Therapy Association, Combined Sections Meeting, Virtual Event, February 2021. Poster.
13. **Klatt BN**, Staab JP, Sienko KH, Whitney SL. Visual Dependence, Personality Traits, and Outcomes of Balance Training in Individuals with Chronic Unilateral Vestibulopathy. American Physical Therapy Association, Combined Sections Meeting, Virtual Event, February 2021. Poster.
14. Whitney SL, **Klatt BN**, Hovasheti P. VestAid – video and platform within 2-hour TechnoPalooza. American Physical Therapy Association Combined Sections, Virtual Event, February 2021. Live-Session.
15. Dunlap P, Crane B, Moored K, Carlson M, Perera S, Brach J, **Klatt BN**, Rosso A. Changes in GPS-Derived Community Mobility after Motor Skill Training in Older Adults. The Gerontological Society of America Meeting. November 2021. Symposium
16. Whitney SL, **Klatt BN**, Hovasheti P. Novel vestibular virtual reality technology – video and platform within 2-hour TechnoPalooza: A Hands-on Technology Playground for Learning education session. American Physical Therapy Association Combined Sections, San Antonio, TX, February 4, 2022. Live-Session.

International

1. Bao T, Carender WJ, **Klatt BN**, Kinnaird C, Whitney SL, Sienko KH. Evaluating a conceptual progression framework by grouping balance exercises based on difficulty. ISPGR, Seville, Spain, June 29, 2015. Poster.
2. Bao T, **Klatt BN**, Carender WJ, Kinnaird C, Whitney SL, Sienko KH. Long-term balance training with vibrotactile biofeedback: Two case reports. ISPGR, Seville, Spain, June 29, 2015. Poster.
3. **Klatt BN**, Sparto PJ, Terhorst L, Winser S, Heyman R, Zaydan I, Whitney SL. Incidence of abnormal subjective visual vertical during rod and rod-and-frame conditions in individuals with multiple sclerosis. Barany Society Meeting, Seoul, South Korea, June 5-8, 2016. Poster.
4. **Klatt BN**, Sparto PJ, Hoppes CW, Brandfass K, Whitney SL. Anxiety, depression, and visual dependence assessment in neuro-vestibular physical therapy. Barany Society Meeting, Uppsala, Sweden, June 10-13, 2018. Poster.
5. Dunlap PM, Sejdic E, Hoppes CW, Alshebber KM, **Klatt BN**, Danaher C, Rosso AL, Furman JM, Whitney SL. (2019). Gait changes during dual-task walking in individuals with and without visual vertigo. Vestibular Oriented Research Meeting. Dayton, OH. May 20, 2019. Platform.
6. **Klatt BN** and Agrawal Y. Vestibular physical therapy for Alzheimer Disease. Vestibular Oriented Research Meeting. Dayton, OH. May 20, 2019. Platform.
7. **Klatt BN**, Hovareshti P, Holt LS; Zalkin C, Tolani D, Whitney SL. Feasibility of VestAid: A tablet-based technology for objective exercise monitoring in vestibular rehabilitation. Vestibular Oriented Research Meeting. Virtual. May 20, 2019. Poster.
8. Costa C, Dunlap PM, Hoppes CW, **Klatt BN**, Sparto PJ, Furman JM, Whitney SL. Visual vertigo and its association with anxiety, depression, and patient perception of functioning in persons with vestibular disorders. World Physiotherapy Congress 2021 online. April 2021. Platform.
9. **Klatt BN**, Hovareshti P, Holt LS, Dunlap PM, Zalkin C, Tolani D, Whitney SL. Feasibility of VestAid: A Tablet-based Technology for Objective Exercise Monitoring in Vestibular Rehabilitation. Barany Society Meeting. May 2022. Poster.

10. Costa C, Dunlap PM, Hoppes CW, Klatt BN, Sparto PJ, Furman JM, Whitney, SL. The Association of Visual Vertigo with Function, Quality of Life and Perceived Change in Health. Barany Society Meeting. May 2022. Poster.
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PROFESSIONAL ACTIVITIES

TEACHING:

University of Pittsburgh, Department of Physical Therapy, Doctor of Physical Therapy Curriculum:

- 2009 – 2022 **Neuromuscular I, II, III** Faculty Mentor (approximately 55-65 students) - primary responsibility to engage and educate students during laboratory sessions and evaluate students' performance during competency and practical examinations (~20-hours each course).
- 2012-2017, 2020 **Management of the Medically Complex Patient** (PT 2079) Guest Lecturer (approximately 55-65 students) – primary responsibility to present a case study (“Parkinson Disease Case Study”) and engage students in discussion with clinical decision-making.
- 2020 – 2023 **Health and Wellness** (PT 2028: 1 credit) Course Instructor (approximately 55-65 students) – primary responsibility for defining content, lecturer for various topics, and evaluating students' performance.
- 2021 – 2023 **Management of the Medically Complex Patient** (PT 2079: 1 credit) Course Instructor (approximately 55-65 students) – primary responsibility for defining content, identifying guest speakers and lecturer for various topics, and evaluating students' performance.
- November 8, 2021 **First Friday PT Rounds** (approximately 40 faculty members and 150 students) – primary responsibility to prepare an interactive case-presentation (“When is an eye twitch more than a tired eye: diagnosis and rehabilitation of hemifacial spasm”) and engage audience in critical thinking and clinical-decision making.
- Spring 2023 **Cardiopulmonary PT II** (PT 2027: 2 credits) Course Coordinator (approximately 55-65 students) – primary responsibility for coordinating lectures and laboratory sessions; and evaluating students' performance.

University of Pittsburgh, Department of Physical Therapy, Master of Physical Therapy Curriculum:

- 2020 – 2022 Guest Lecturer. Falls and Balance Dysfunction: PT Management and Intervention. Lecture topic: Effectiveness of Vestibular Rehabilitation (2.5 hours each year, approximately 20 students)

University of Pittsburgh, School of Health and Rehabilitation Sciences, Doctor of Philosophy in Rehabilitation Science Program Curriculum:

- Fall 2022 **Core Concepts in Disability and Rehabilitation I** (HRS 3003: 2 credits) Course Co-Instructor (7 PhD students) – primary responsibility to lecture on core disability and rehabilitation science topics across the research continuum and withing the ICF taxonomy and evaluating students' knowledge of the course content.

Other Health Science Curriculums:

- March 16, 2019 Guest Lecturer, Johns Hopkins University Department of Epidemiology. Lecture topic: Epidemiology of Sensory Loss in Aging Adults (1-hour, approximately 20 graduate students)
- March 2019 Guest Lecturer, Youngstown State University Doctor of Physical Therapy Program. Lecture topic: Vestibular Rehabilitation (8 hours total, approximately 40 graduate students)
- Summer 2020 – 2022 University of Pittsburgh Provost Academy – Peripheral Vision Lab Instructor (2-hours) – primary responsibility to prepare and lead an interactive instructional and laboratory experience for approximately 30 incoming neuroscience undergraduate students.

Doctoral Dissertation Committee Membership

1. Fai Alradady, PhD student, Department of Physical Therapy, School of Health and Rehabilitation Science
Dissertation Committee 2020-current: Dr. Susan L. Whitney, committee chair
Project title: TBD

Doctoral Comprehensive Examination Dean's Representative

1. Nicole Sekel, PhD student, Dept. of Sports Medicine and Nutrition, School of Health and Rehabilitation Science
Deans Representative: 01/03/2023 – 3/10/2023; Committee chair: Bradley Nindl
Project title: Physical Training, Nutritional, and Aging Influences on Adaptive Bone Formation

Undergraduate Student Summer Internship

1. Connor Weiss, University of Pittsburgh Rehab Sciences undergraduate student: May – August 2022

Doctor of Physical Therapy Research Clinical

1. Sophia Wang, University of Pittsburgh Doctor of Physical Therapy graduate student: May – August 2022

Doctor of Physical Therapy Advising

Class of 2023 (4 students), Class of 2024 (4 students), Class of 2025 (6 students)

Invited Lectures/Education Symposiums

Local

February 22, 2017 UPMC Centers for Rehab Services Neuro Team Meeting – Pittsburgh, PA. Title: The Importance of Recognizing Persistent Postural-Perceptual Dizziness in Patients with Balance Disorders (1-hour lecture)

April 27, 2022 UPMC Centers for Rehab Services Neuro Team Meeting – Pittsburgh, PA. Title: Cognitive Considerations in Vestibular Rehabilitation (1-hour lecture)

National

May 2018 - 2022 Vestibular Rehabilitation: An Advanced Course and Update - University of Pittsburgh Continuing Education Course. Topic: Relationship between Cognition and Vestibular Function (30-min lecture)

October 10, 2020 Hackensack Meridian Health JFK Johnson Rehabilitation Institute Continuing Education Course: "Vestibular Rehabilitation: Advanced PT OT Course" – Instructor & Moderator in Virtual Case Management Discussion for: "What is the Right Exercise for the Right Person" (1-hour) and "BPPV and Cases: What Would You Do?" (1-hour & 15-min)

February 2021 American Physical Therapy Association Combined Sections Meeting – Virtual On-Demand Neurology/Geriatric Education Session: "Vestibular Function, Visuospatial Ability, and Cognition in Aging: Where Are We?" (*Co-Presenter with Eric Anson and Julie Ries*)

December 2021 Academy of Neurologic Physical Therapy – Live Webinar and Archived to the Learning Center. Title: "Vestibular Function, Visuospatial Ability, and Cognition in Aging: Where Are We?" (*Co-Presenter with Eric Anson and Julie Ries*)

January 2022 Advanced Vestibular Physical Therapy Certification Course – Online. Topic: Cognition and Vestibular Disorders (60-min presentation and 20-min Q&A panel)

February 2022 American Physical Therapy Association Combined Sections Meeting – San Antonio, TX. Neurology Education Session: "Emerging Interventions for Rehabilitation of Mild Neurocognitive Disorders: Evidence from Neuromodulatory and Cognitive-Motor Training Approaches" (*Co-Presenter with Joe Verghese, Tanvi Bhatt, and Brad Manor*).

January 2023 Advanced Vestibular Physical Therapy Certification Course – Online. Topic: Cognition and Vestibular Disorders (60-min presentation)

International

May 28, 2022 Chinese Geriatrics Society for Vestibular Disorders Conference – China
Title: Related Factors and Management of Posture Regulation in Elderly (50-min lecture)

June 21, 2022 University College London Hospitals four-day Medical Course – London, UK
Dizziness and Balance Disorders: A Multidisciplinary Approach
Title: Vestibular disorders and falls in older adults: epidemiology insights (45-min lecture)

Title: Diagnostic criteria of presbyvestibulopathy (45-min lecture)

July 6, 2022

ISPGR World Congress – Montreal, Canada.

Symposium: “Emerging Interventions for Rehabilitation of Mild Neurocognitive Disorders: Evidence from Neuromodulatory and Cognitive-Motor Training Approaches” (*Co-Presenter with Joe Verghese, Tanvi Bhatt, and Brad Manor*).

October 16, 2022

International Vestibular Rehabilitation Conference – Minneapolis, MN.

Topic: Vestibular Cognition (30-min presentation)

RESEARCH:

Grant number	Title	Role	Effort	Years	Amount
Current					
1K23DC020215-01 <i>NIH NIDCD K23</i>	Activity and Participation in Vestibulopathy	PI	75%	2022-2027	\$250,000/year
Institute for Clinical Research Education <i>University of Pittsburgh</i>	Supporting Our Scientists Award			2022-2023	\$35,000
SHRS Dean’s Research and Development Award <i>University of Pittsburgh</i>	Mobile Technology to Track Activity during Vestibular Rehabilitation	PI		2022-2023	\$30,000
W81XW-20-C-0091 <i>Department of Defense</i>	ADRESTIA	Co-I (PI: Redfern)	5%	2021-2022	\$98,459
W81XWH-20-C-0028 <i>Department of Defense</i>	Veritas	PI	10%	2020-2022	\$121,294
1L30DC019805-01 <i>NIH NIDCD LRP</i>	Increasing Activity and Participation in Vestibular Disorders	PI		2021-2022	
APTA-PA Research Grant <i>APTA-PA</i>	Mental Rotation Training for Impaired Vestibular and Visuospatial Ability	PI		2021-2022	\$1,500

Grant number	Title	Role	Effort	Years	Amount
Prior					
W81XWH-19-C-0006 <i>Department of Defense</i>	Usability of the Vest Aid Among Persons with Dizziness	PI	10%	2019-2020	\$37,385
Geriatric Research Grant <i>Academy of Geriatric PT</i>	Vestibular Physical Therapy for Alzheimer Disease	PI		2019	\$1,000
5T32DC011499-06 <i>NIH NIDCD T32</i>	Training in Auditory and Vestibular Neuroscience Grant	Trainee (PI: Yates and Kandler)		2016-2017	
5T32DC011499-05 <i>NIH NIDCD T32</i>	Training in Auditory and Vestibular Neuroscience Grant	Trainee (PI: Yates and Kandler)		2015-2016	
5-R21-DC-012410-02 <i>NIH NIDCD R21</i>	The effects of vibrotactile feedback during balance training	Graduate Research Asst. (PI: Sienko and Whitney)		2013-2015	

Research Invited Lectures:

October 14, 2015 – “Vibrotactile Feedback during Balance Training”. Research Seminar for the Health and Disability Research Institute. Boston University School of Public Health – Boston, MA

March 15, 2016 – “Vibrotactile Feedback during Balance Training”. 5th Annual Auditory and Vestibular Training Grant Retreat. University of Pittsburgh – Pittsburgh, PA

November 14, 2016 – “Vibrotactile Feedback during Balance Training”. Laboratory of Dr. Yuri Agrawal. Johns Hopkins Center for Hearing and Balance – Baltimore, MD

March 28, 2017 – “Vibrotactile Feedback during Balance Training”. 6th Annual Auditory and Vestibular Training Grant

Retreat. University of Pittsburgh – Pittsburgh, PA
 May 11, 2017 – “The Assessment of Anxiety, Depression, and Visual Dependency in Outpatient Neurologic Physical Therapy”. King’s College London Centre of Human & Aerospace Physiological Sciences – London, United Kingdom
 September 20, 2018 – “Vestibular therapy for people with cognitive impairment”. University of Pittsburgh Alzheimer’s Disease Research Center – Pittsburgh, PA
 April 30, 2019 – “Vibrotactile Feedback for Chronic Balance Impairment”. Johns Hopkins University Center for Hearing and Balance – Baltimore, MD.
 August 6, 2019 – “Vestibular Physical Therapy for People with Alzheimer Disease”. UPMC ENT Balance Rounds – Pittsburgh, PA.
 April 27, 2020 – “Visuospatial Cognition in Vestibular Disorders: Where Are We?”. Pittsburgh Pepper Center Research Seminar Series – Center of Excellence in Mobility, Balance, and Aging – Pittsburgh, PA.
 July 19, 2022 – “Cognitive Considerations in Vestibular Rehabilitation”. Stanford Balance Center – Palo Alto, CA.

SERVICE:

Department

2011 – present University of Pittsburgh Department of Physical Therapy
 Reviewer and rater of doctoral of physical therapy applicants for admission committee
 2020 University of Pittsburgh Department of Physical Therapy
 Search Committee for Patient Management Faculty Member
 2016, 2018, 2020 University of Pittsburgh, School of Medicine, Department of Otolaryngology
 Scientific Advisory Committee presentation– 15-min research agenda (current and planned)

School

2020-2021 University of Pittsburgh, School of Health and Rehabilitation Science
 Faculty Facilitator for Virtual Case Conference Presentation for Interprofessional Student Board
 (Nov. 12, 2020 – Stroke; March 25, 2021 – Parkinson Disease; Nov. 18, 2021 – Cerebral Palsy)
 2-hours per case
 December 2021 University of Pittsburgh School of Health and Rehabilitation Science
 Reviewer and rater of undergraduate student essays for merit scholarships
 November 2022 University of Pittsburgh School of Health and Rehabilitation Science
 Reviewer of PhD applicant

Professional

2013 – 16; 19 – 20 APTA Vestibular Special Interest Group – Clinical Appraisal Team
 Appointed to a review panel for the vestibular rehabilitation clinical practice guidelines for first
 publication (2013 – 2016) and revision (2019 – 2020)
 2015 – 2018 American Board of Physical Therapy Specialties
 Specialization Academy of Content Experts (SACE) item writer
 2016 – 2019 Southwest District of the Pennsylvania Physical Therapy Association
 Education Committee Co-chair
 2016 – present Pennsylvania Physical Therapy Association
 Practice & Research Committee Member
 2016 – 2020 APTA Academy of Neurologic Physical Therapy
 Awards Committee Member (Chair, 2018/19)
 2018 - present APTA Academy of Neurologic Physical Therapy
 CSM Abstract Reviewer
 2020 Pennsylvania Physical Therapy Association
 Conference Abstract Reviewer; Abstract Award Judge
 2021 Pennsylvania Physical Therapy Association Conference
 Moderator of Platform Presentation Session

2021 – 2022 APTA Academy of Neurologic Physical Therapy
Annual Conference Abstract Reviewer

Manuscript Reviewer

Frontiers in Neurology, Neuro-Otology
Ear and Hearing
Physiotherapy Research International
PLOS One
Journal of Vestibular Research
Scientific Reports
Archives of Physical Medicine and Rehabilitation

Grant Reviewer

2021 - 2022 Pennsylvania Physical Therapy Association Research Grant
2022 University of Pittsburgh Occupational Therapy Department NCMRR R03 Grant (internal reviewer)
2022 University of Pittsburgh Physical Therapy Department NCMRR R03 Grant and CoHSTAR Pilot Grant
(internal reviewer)
2022 University of Pittsburgh SHRS Research Development Award

Community Activities:

- March 17, 2008 – “Role of Rehab for Patients with Normal Pressure Hydrocephalus”. UPMC CRS Quarterly Education Series, UPMC Herberman Conference Center – Pittsburgh, PA
- June 18, 2008 – “Role of Rehab for Patients with Normal Pressure Hydrocephalus”. UPMC Centers for Rehab Services Neuro Team Meeting, UPMC Sports Medicine – Pittsburgh, PA
- March 19, 2009 – “How to Improve Your Balance and Reduce Your Fall Risk with P.T.”. Lighthouse Pointe Independent Living Facility – Pittsburgh, PA
- July 15, 2010 – “Vestibular Rehabilitation”. Core Content Series for Family Medicine/Pharmacy Residents & Fellows. UPMC St. Margaret Hospital – Pittsburgh, PA
- May 2019 – “Breakdown of the Balance System”. Longwood at Oakmont “Vertical” Fall Prevention Program – Pittsburgh, PA (*Co-presenter with Pamela Dunlap, DPT, NCS for 2 lectures, 1-hour each*)
- January 2022 – “What is a Physical Therapist”. Blessed Francis Seelos Academy Career Fair (two 30-min and two 15-min presentations)