

Curriculum Vitae

Rachel Reoli, PT, DPT, NCS, PhD

Assistant Professor, Department of Physical Therapy and Rehabilitation Science, University of Maryland School of Medicine

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Contact Information

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Education

2002-2006 B.S., Neuroscience, B.S., Psychology, Allegheny College

2006-2008 Continuing Education, Montgomery College

2012-2015 DPT, The George Washington University

2017-2022 PhD, The University of Maryland School of Medicine- Thesis Advisors: Dr Amy Bastian and Dr Jill Whittall.

Post Graduate Education and Training

2015-2016 Residency, Neurologic Physical Therapy, Johns Hopkins Hospital and University of Delaware

Certifications

2010-present CPR & AED, American Heart Association

2012-present CITI Collaborative IRB Training Initiative

2016 ABPT, Residency and Fellowship Education Credentialed Residency Graduate

2016-present APTA Credentialed Clinical Instructor

2016-present CITI Collaborative IRB Training Initiative, The Johns Hopkins Hospital

2016-2018 InStep, American Spinal Injury Association

2018-2012 Certified Dementia Practitioner, CDP

2017-present American Board of Physical Therapy, Neurologic Certified Specialist

Medical Licensures

2015-2017 Inactive, Delaware
2015-2019 Inactive, Washington DC
2015-2019 Inactive, Virginia
2015-present Active, Maryland

Employment History

Clinical Appointments

2017-2019 Physical Therapist II, The Johns Hopkins Hospital
2018-2019 Clinical Instructor, DPT, The Johns Hopkins Hospital
2019-2022 Neurology Team Coordinator, The Johns Hopkins Hospital

Academic Appointments

2022-2024 Clinical Resource Analyst, The Johns Hopkins Hospital
2022-2024 Assistant Professor, Physical Medicine, and Rehabilitation, JHU
2024-present Assistant Professor, Physical Therapy and Rehabilitation Sciences, UMB

Professional Society Membership

2012-2022: APTA Neuro Section Member
2012-2016: APTA DC Chapter
2012-present: American Physical Therapy Association
2012-present: APTA MD Chapter

Honors And Awards

2002-2006 Trustee's Award Scholarship, Allegheny College
2006 Allegheny College Alden Scholar for High Academic Achievement, Allegheny College
2006 Guy Emerson Buckingham Scholar Award in Psychology, Allegheny College
2009 Distinguished Performance Award, Kelly Services, NIH
2013 Excellence Award, The George Washington University DPT Program
2014 Scholarship, Johns Hopkins Critical Care Rehabilitation Conference
2017 1st Place Award, Regional Fall Conference and Student Conclave Sponsored by MD & DC Chapters. How do you rehabilitate balance when vision, sensation and vestibular systems are impaired? A case study. Wood J & Reoli R
2017 1st Place Award, Johns Hopkins Clinical Research Expo. How do you rehabilitate balance when vision, sensation and vestibular systems are impaired? A case study. Wood J & Reoli R

2018	<u>Professional Development Program</u> , Tier III, JHH.
2019	<u>Professional Development Program</u> , Tier I, JHH
2024	<u>Wadsworth Award</u> , University of Maryland Physical Therapy and Rehabilitation Science Program

Clinical Activities

Clinical Expertise

Board certified neurologic physical therapist.

Clinical Resource Analyst. Clinical and research focus in the areas of neurology, pediatrics, inpatient rehabilitation, and psychiatric occupational therapy.

During each aspect of my career, I have made it my priority to contribute to science and education. I initially pursued my interest in benchwork neuroscience at the National Institutes of Health (NIH). While at NIH, a friend suffered a spinal cord injury. Through her rehabilitation, I witnessed the role physical therapy plays in recovery. I was motivated to pursue my Physical Therapy Doctorate, a career that translates research into clinical practice. I continued my education by obtaining a Neurologic Specialty and a PhD in Rehabilitation Science. As a core faculty member, I am now able to share my clinical skills to impact a broader audience.

Scope of Clinical Practice:

2017-2019	Inpatient Rehabilitation ~180 patients per year Physical Therapist II 100% FTE
2019-2022	Acute Care Neurology ~100 patients per year 100% FTE (50% administration, 50% clinical care)
2022-2024	Clinical Resource Analyst ~75 patients per year 100% FTE (25% patient care, 75% QI/research)

Development of Clinical Programs:

2018-2022:	Sheikh Khalifa Stroke Institute, planning committee, creator and presenter of educational content.
2021:	Jeddah Park Rehabilitation Institute, planning committee, presented inpatient rehabilitation model.
2022-2024:	Pediatric Delivery of Care Development, creator and implementor, JHH
2022-2024:	In-Room Independence Scale, JHH Inpatient Rehabilitation Facility
2022-2024:	Metric Development for the JHH Quality Improvement Team: ACS, CIIRP, psychologic occupational therapy, pediatrics

Administrative Service

Institutional Service

2017-2024 JHH Neurologic Residency Mentor
2019-2022 Interviewer, JHH PM&R Interview Committee
2022-2024 Research Help Member, JHH PM&R
2022-2024 Quality Improvement Member, in-patient rehabilitation, JHH PM&R
2022-2024 Quality Improvement Member, psychiatric OT & pediatrics, JHH PM&R
2024-present Curriculum Creation Committee Chair, UMB
2024-present UMSOM Faculty Senate, UMB
2024-present Data Safety and Monitoring Board, UMB
2025-present Institutional Faculty Nominating Committee, UMB
2025-present UMSOM PTRS Strategic Plan Working Group, UMB

Local and National Service

National Service

2012-present Member, American Physical Therapy Association
2023-present Article Reviewer, F1000 Research (1x/year)
2024-present Article Reviewer, Journal of Gerontology (1x/year)
2025-present Article Reviewer, Physiotherapy Theory and Practice (1x/year)
2025-present Article Reviewer, Digital Health (1x/year)
2025-present Article Reviewer, PTJ (1x/year)
2025-present Article Reviewer, Disability and Rehabilitation (1x/year)

Local Service

2012: Nation's Triathlon to Benefit the Leukemia & Lymphoma Society, Washington DC.
2012: Best Buddies Challenge Washington Monument 5k, Washington DC.
2012: Commitment to the Community Day: Kid's Against Hunger & Operation Smile, Washington DC.
2013: DC Falls Coalition Prevention Day, Congress Heights, Washington DC.
2013: Capitol Hill United Church Food Drive, Washington DC.
2013: Challenger's Baseball, Arlington VA.
2013: PAHO World Health Day 3k Walk for Hypertension Awareness, Washington DC.
2013: Cherry Blossom 10 miler, Washington DC.
2014: GWU Multiple Sclerosis PT Study, Washington DC.
2014: The Jackson Clinics 5k, Springfield VA.
2014: Cherry Blossom 10 miler, Washington DC.
2015: World Stroke Day Community Outreach, Baltimore MD.
2015: Columbia Turkey Chase, Columbia MD.
2015: Cherry Blossom 10 miler, Washington DC.

2016: Cherry Blossom 10 miler, Washington DC.
 2017: Hackerman House Dinner, Johns Hopkins Hospital, Baltimore MD.
 2017: Cherry Blossom 10 miler, Washington DC.
 2018: Cherry Blossom 10 miler, Washington DC.
 2023: Filbert Street Garden Volunteer, Baltimore MD.
 2023: Johns Hopkins Hospital, Stroke & Amputee Run/Walk, Columbia MD.
 2023: Brain Injury Awareness, Scarecrow Run, Sykesville MD.
 2023: AOTA, Therapy Recruiter, Baltimore MD.
 2024: Brain Injury Awareness, Scarecrow Run, Sykesville MD.
 2024: APTA of MD, Speed Dating, Fall Conference, Anne Arundel MD.
 2018-present: APTA Continuing Education Committee, Baltimore MD.

Teaching Service

Undergraduate Student Teaching

2004-2006: Teaching Assistant, Laboratory of Neurophysiology, Allegheny College, 25 undergraduate students, 6 contact hours/week.

Post-Graduate Teaching

Doctor of Physical Therapy Teaching

2015: Neuroscience, DPT students, 3 contact hours/week/semester, 2 semesters
 2016: Grand Rounds, DPT students, 3 contact hours.
 2017-2020: Research Seminar, DPT students, 1 contact hour/semester, 6 semesters.
 2019: Cerebellar Lecture, Fall 2019. NM2 DPT students, 2 contact hours.
 2019: Foot and Ankle, MSK DPT students, 2 contact hours.
 2019: Hip, MSK DPT students, 3 contact hours.
 2020: Cerebellar Exam, NM1 DPT students, 3 contact hours.
 2021: Pediatric Traumatic Brain Injury. NM2 DPT students, 2 contact hours.
 2021: Vestibular Exam, NM1 DPT students, three contact hours.
 2024: Neuromuscular 2, 135 contact hours, Block Leader. Neuromuscular 1, 120 contact hours, Block Leader. Basic Science 2, Basic Science 1 Anatomy.
 2025: Neuromuscular 2, 135 contact hours, Block Leader. Basic Science 1 Anatomy. Basic Science 2, Basic Science 3, Neuromuscular 1, 120 contact hours, Block Leader.

PhD Rehabilitation Science Graduate Student Teaching:

2024: Basal Ganglia and Cerebellum, University of Maryland Baltimore, 3 contact hours.

Medical Student Teaching:

2024: Gross Anatomy, Spine, University of Maryland, 3 contact hours

Medical Resident/Fellow Teaching

2023: Guest Lecturer, Motor Learning, 2 contact hours/year, Johns Hopkins Hospital

2024: Guest Lecturer, Cerebral Palsy, 2 contact hours/year, University of Maryland

Resident and Fellow Teaching

Neurologic Physical Therapy Residents: 1 year rotation, 3 hours/week/year contact time.

2017: Meredith Drake, DPT NCS, Level II JHH Outpatient DPT.
2017: Jonathan Wood, DPT NCS, PhD Candidate at University of Delaware.
2018: Rachael Arabian, DPT NCS, Vestibular DPT, Advent Health Celebration.
2018: Julia Falkenklaus, DPT NCS, Level II Acute Care JHH Stroke DPT.
2019: Nicole Biltz, DPT NCS, Assistant Professor, Western U Northwest.
2019: Megan Ziegler DPT NCS, DPT University of Delaware.
2020: Marielle Handley DPT NCS, DPT, New York.
2020: Casey Houlihan DPT NCS, DPT Marquette University PT Clinic.
2021: Coco Vigilar DPT, NCS, DPT, University of Southern California.
2022: Chris Fulcher DPT, University of Florida.
2023: Mariah Callas DPT, University of Pittsburgh.
2024-present: Marina Kissner DPT, *current University of Maryland Resident*

Other Guest Lecturer Opportunities

2014: Community Outreach: Senior Fitness Model, 50 Physical and Occupational Therapists, 1 contact hour, Bayview JHH.
2014: Persistent Pain, 10 Physical Therapists, 1 contact hour, Jackson Clinics.
2016: Early Mobility After Stroke, 20 Physical and Occupational Therapists, 1 contact hour, ACS, JHH.
2016: DPT Clinical Instructor, 2 graduate students, 6 hours/week. University of Delaware, STAR Campus, Newark DE
2017: Stroke Competency for Multi-Disciplinary Teams, 50 CIIRP staff, 2 contact hours, JHH.
2017: ARAT Competency, 20 Physical and Occupational Therapists, 1 contact hour, JHH.
2017: Lessons in Interdisciplinary Communication, Daniels Class, University of Notre Dame, 50 students, 3 hours/year.
2017-2018: DPT Clinical Instructor, 1 graduate student, 8 hours/day, 12 weeks. JHH
2018: JHH, Persistent Pain, 20 Physical Therapists and Occupational Therapists, 1 contact hour, JHH.
2023: Pediatric Coma Stimulation, Virtually Lead, APTA of MD, 2 contact hours.

Grant Support

Active Grants:

2025: NIH RO1- under review

Publications

Peer-reviewed journal articles

1. Marchese V, Duggal A, Shelawala N, Sun K, Rolla K, Rudy G, Vishwasrao S, **Reoli R**. High Cost of Medical Care Compared to Physical Therapy for People with Sickle Cell Disease: A Scoping Review and Follow-up Analysis. *Journal of Health and Medical Economics*. 2025. DOI: [10.5281/zenodo.17150913](https://doi.org/10.5281/zenodo.17150913)
2. **Reoli R**, Marchese V, Kaplan K. Artificial Intelligence's Benefit in Doctor of Physical Therapy Education: Student Perceptions. *Physiotherapy Theory and Practice*. 2025. <https://doi.org/10.1080/09593985.2025.2496978>
3. Pascal K, Roemmich R, **Reoli R**. Group physical therapy improves outcomes for patients on an inpatient psychiatric pain service. *British Journal of Pain*. 2025. <https://doi.org/10.1177/20494637251343553>
4. Myer, A., Lenker H., & **Reoli, R**. The optimum frequency for physical therapy intervention in pediatric patients undergoing bone marrow transplantation in the acute care setting: a systematic review. *Rehabilitation Oncology*. 2024. DOI: <https://doi.org/10.1097/01.REO.0000000000000376>
5. Lenker H & **Reoli R**. Rehabilitation frequency for pediatric patients with burns: a scoping review. *Accepted Clinical Pediatrics* 2024. DOI: [10.1177/00099228241263778](https://doi.org/10.1177/00099228241263778)
6. **Reoli R**, Wilkins E, Klag J, Hoyer E, Lavezza A. How safe is your patient to mobilize: the John Hopkins Hospital In-room Independence Scale (IRIS). *Am J Phys Med Rehabil*. 2024. DOI: 10.1097/PHM.0000000000002407.
7. **Reoli R**, Therrien A, Millar J, Hill N, Varghese R, Roemmich R, Whitall J, Bastian A, Keller J. The Scale for Assessment and Rating of Ataxia is reliable and valid for in the telehealth setting for patients with cerebellar ataxia. *PTJ*. 2024. 104(3).
8. Walsh B, Spence T, Mack B, **Reoli R**. Identifying meaningful goals in inpatient psychiatric care: patient perspectives through the Canadian Occupational Performance Measure. *Occupational Therapy in Mental Health*, 2023. DOI: [10.1080/0164212X.2023.2285315](https://doi.org/10.1080/0164212X.2023.2285315)
9. **Reoli R**, Therrien A, Cherry-Allen K, Keller J, Millar J & Bastian A. Is the Dynamic Gait Index a useful outcome to measure balance and ambulation in patient with cerebellar ataxia? *Gait Posture*. 2021, 89:200-205.

10. **Reoli R**, Cherry-Allen K, Therrien A, Keller J, Leech K, Leddy Whitt A & Bastian A. Can the ARAT be used to measure arm function in people with cerebellar ataxia? *Physical Therapy*. 2021. Feb 4, 101(2).
11. Matsumoto N, Eldridge M, Saunders R, **Reoli R**, Gothard K & Richard B. Mild perceptual categorization deficits follow bilateral removal of anterior inferior temporal cortex in rhesus monkeys. *J Neurosci*. 2016. Jan 6;36(1):43-53.
12. Jonely H, Brismee JM, Desai M & **Reoli R**. Sacroiliac joint dysfunction in a 35-year-old nulliparous female: a multimodal and multidisciplinary approach to management. *J Man Manip Ther*. 2015. Feb;23(1):20-6.

Submitted or In-Revision Peer-reviewed journal articles

1. **Reoli R**, Therrien A, Millar J, Hill N, Varghese R, Roemmich R, Whitall J, Bastian A, Keller J. The Berg Balance Scale is reliable and valid in the telehealth setting for patients with Parkinson's disease. *Under Review 2025*.
2. Marchese V, Duggal A, Sun K, Situt M, York T, **Reoli R**. Barriers to Access and Utilization of Physical Therapy for People with Sickle Cell Disease. *Under Review 2025*.
3. Kaplan K, Marchese V, Reoli R. ChatGPT as a Tutoring Aid: A Mixed Methods Exploration of Physical Therapy Students' Experiences. *Under Review 2025*.
4. Marchese V, Savage L, Martins L, Shelawala N, Huyhn A, Rudy A, **Reoli R**. The path to finding clarity in the term "intensity," a physical function intervention parameter: a systematic review. *Under Review 2025*.
5. Marchese V, Savage L, Sun K, Situt M, York T, **Reoli R**. Physical therapy is an underutilized health resource for children with pediatric cancers: facilitators for improvement. *Under Review 2025*.

Major Invited Speeches

Local

1. Reoli, R. How Reliable are Our Physical Therapy Outcome Measures? Kennedy Krieger Motion Analysis Laboratory, 2019.
2. Reoli, R. Johns Hopkins Hospital Residency Graduation, Keynote Speaker. 2024.
3. Reoli, R. Neurorehabilitation and the Role of High Intensity Gait Training. UMSOM Continuing Education Programing. Keynote Speaker. 2024.

National

Speaker:

1. **Reoli, R.,** Rowland, R., Horn, L. APTA of Maryland Fall Regional Conference. Physical Therapy and Imaging. November 2025.
2. **Reoli, R.,** Marchese, T., APTA Combined Sections Meeting. Educational Session. Barriers to Access and Utilization of Physical Therapy for People with Sickle Cell Disease. February 2025.
3. **Reoli, R.,** Lenker, H., Lavezza A., Sarah M. APTA Combined Sections Meeting. Educational Session. Pediatric Delivery of Care. February 2024.

Poster:

1. 2025- ELC. ChatGPT as a Tutoring Aid: A Mixed Methods Exploration of Physical Therapy Students Experiences. Kaplan K, Marchese V, Reoli R.
2. 2025- APTA of MD Fall Regional Conference. Artificial Intelligence's Benefit in Doctor of Physical Therapy Education: Student Perceptions. Reoli R, Duggal A, Marchese V, Kaplan K
3. 2025- University of Maryland Baltimore Research Day. Effects of Gait Training on the Functional Outcome of an Individual with a Non-Traumatic Brain Injury. Liu J & Reoli R.
4. 2025- University of Maryland Baltimore Research Day. Combining HIGT with Perturbation Balance Training to Improve Walking Distance and Speed for a Patient with Chronic Incomplete Spinal Cord Injury. Beauchamp S, Dillon A, Reoli R.
5. 2022- Johns Hopkins Clinical Research Expo. Beyond the desk: enriched SLP (eSLP) cognitive training program: a novel approach to neurovascular rehabilitation. Karagiorgos E & Reoli R.
6. 2022- Johns Hopkins Clinical Research Expo. Occupational therapy outcomes in a psychiatric day hospital. Spence T, Roemmich R, Reoli R & Lehman S.
7. 2022- Johns Hopkins Clinical Research Expo. Evaluating the impact of an occupational therapy fellowship on self-perceived competence. Walsh B & Reoli R.
8. 2021- APTA Combined Sections Meeting. Rehabilitation after acoustic schwannoma resection complicated by cerebellar infarct: a patient-centered and evidence-based approach. Handley M & Reoli R.
9. 2020 APTA of MD Mini CSM. Can the ARAT be used to measure arm function in people with cerebellar ataxia? Rachel Reoli PT, DPT, Kendra Cherry-Allen PT, DPT, PhD,¹ Amanda Therrien PhD, Jennifer Keller PT, Kristan Leech PT, DPT, PhD, Abigail Leddy Whitt PT, DPT, MSCI, Amy Bastian PT, PhD
10. 2019 Johns Hopkins Clinical Research Expo. Can the ARAT be used to measure arm function in people with cerebellar ataxia? Rachel Reoli PT, DPT, Kendra Cherry-Allen PT, DPT, PhD,¹ Amanda Therrien PhD, Jennifer Keller PT, Kristan Leech PT, DPT, PhD, Abigail Leddy Whitt PT, DPT, MSCI, Amy Bastian PT, PhD
11. 2019 APTA Fall Regional Conference. Can the ARAT be used to measure arm function in people with cerebellar ataxia? Rachel Reoli PT, DPT, Kendra Cherry-Allen PT, DPT, PhD,¹ Amanda Therrien PhD, Jennifer Keller PT, Kristan Leech PT, DPT, PhD, Abigail Leddy Whitt PT, DPT, MSCI, Amy Bastian PT, PhD

12. 2018 Johns Hopkins Clinical Research Expo. To tape or not to tape? Management of clonus with kinesiology tape: a case study. Klag J & Reoli R.
13. 2018 APTA Combined Sections Meeting. How do you rehabilitate balance when vision, sensation, and vestibular systems are impaired? A case Study. Wood J & Reoli R.
14. 2017 Johns Hopkins Clinical Research Expo. How do you rehabilitate balance when vision, sensation, and vestibular systems are impaired? A case Study. Wood J & Reoli R.
15. 2017 Regional Fall Conference and Student Conclave Sponsored by MD, DC Chapters. How do you rehabilitate balance when vision, sensation, and vestibular systems are impaired? A case Study. Wood J & Reoli R.
16. 2017 APTA Combined Sections Meeting. The Effect of Sport-specific Dual Task on Gait Apraxia in an Older Athlete with Acquired Brain Injury: A Case Study. Skolky R & Reoli R.
17. 2017 APTA Combined Sections Meeting. Effect of axial weighting on functional mobility and level of assistance for a patient with cerebellar ataxia of gait due to chronic traumatic brain injury. Reoli R & French M.
18. 2017 APTA Combined Sections Meeting. Standardized Outcome Measures In the Clinic, How Standard Are You? Fitzpatrick B, Reoli R, & Reisman D.
19. 2016 Regional Fall Conference and Student Conclave Sponsored by the DC, DE, MD Chapters. Effect of axial weighting on functional mobility and level of assistance for a patient with cerebellar ataxia of gait due to chronic traumatic brain injury. Reoli R & French M.
20. 2016 Johns Hopkins Hospital Clinical Showcase. Effect of axial weighting on functional mobility and level of assistance for a patient with cerebellar ataxia of gait due to chronic traumatic brain injury. Reoli R & French M.
21. 2016 Johns Hopkins Hospital Clinical Showcase. The Effect of Sport-specific Dual Task on Gait Apraxia in an Older Athlete with Acquired Brain Injury: A Case Study. Skolky R & Reoli R.
22. 2016 Johns Hopkins Hospital Clinical Showcase. Standardized Outcome Measures In the Clinic, How Standard Are You? Fitzpatrick B, Reoli R, & Reisman D.
23. 2015 GWU Research Days. Is Ankle Dorsiflexion In Healthy Subjects Improved With Closed Chain Joint Mobilization Using A Novel Device? A Pilot Study. Reoli R, Farnsworth J, Lustig L, Jonely H & Scalzitti D.
24. 2014 AAOMPT. Chronic Sacroiliac Joint And Pelvic Girdle Dysfunction In A 35-Year-Old Nulliparous Woman Successfully Managed With Multimodal And Multidisciplinary Approach. Reoli R, Jonely H, Brismée JM & Desai MJ. PO#57.

25. 2014 GWU Research Days. Chronic Sacroiliac Joint And Pelvic Girdle Dysfunction In A 35-Year-Old Nulliparous Woman Successfully Managed With Multimodal And Multidisciplinary Approach. Reoli R, Jonely H, Brismée JM & Desai MJ.
26. 2014 GWU Research Days. Active Music Therapy for Individuals with Alzheimer's Disease and Dementia. Jorgensen B, Reoli R, Fry M, White J, & Leach S.
27. 2014 GWU Partnerships for Health. Active Music Therapy for Individuals with Alzheimer's Disease and Dementia. Jorgensen B, Reoli R, Fry M, White J, & Leach S.
28. 2007 Society for Neuroscience meeting. Turchi JN, Reoli R, Saunders RC, and Mishkin M. Neuromodulation of cognitive memory vs. habit formation. *Soc Neurosci Abstr* 33: 638.12, 2007.

International

1. **Reoli, R.**, World Summit of Pediatrics, 9th Annual Conference, Physical therapy is an underutilized health resource for children with pediatric cancers: facilitators for improvement. Vienna Austria, 2025.
2. **Reoli, R.**, Sheikh Khalifa Stroke Institute, 2nd Annual Recovery After Stroke Conference, Inpatient Rehabilitation Gaming Technology, Virtual, 2022.
3. **Reoli, R.**, Johns Hopkins Hospital: Sheikh Khalifa Stroke Institute, Motor Control; Hemiplegia; Ataxia, Virtual, 2021.