

Mary Crumley, PT, DPT, NCS, CBIS, MSCS
Board-Certified Neurological Clinical Specialist
Curriculum Vitae
June 2023

CONTACT INFORMATION

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PRESENT POSITION

Assistant Professor, Physical Therapy and Neurology
Washington University School of Medicine, St. Louis, MO

EDUCATION

UNDERGRADUATE

Bachelor of Arts in Chemistry, Minor in Mathematics May 2011
Luther College, Decorah, IA
Cum Laude

GRADUATE

Doctor of Physical Therapy December 2013
St. Ambrose University, Davenport, IA
Neurologic Physical Therapy Residency Program July 2015
MossRehab, Elkins Park, PA

ACADEMIC POSITIONS/EMPLOYMENT

UnityPoint Health- Allen Hospital March 2014-June 2014
Staff physical therapist in the acute care and inpatient rehab setting. Provided care throughout hospital and supervised physical therapy assistants.

MossRehab-Einstein Healthcare Network July 2014-July 2015
Resident physical therapist completing 4 month rotations in the inpatient/outpatient brain injury setting, outpatient neurologic and vestibular setting, and inpatient stroke and spinal cord injury setting.

Courage Kenny Rehabilitation Institute, Allina Health August 2015-June 2016
Resource physical therapist in the acute care, ICU, inpatient rehab, aquatic, skilled nursing facility, and outpatient neurologic setting.

SSM Health Rehabilitation Hospital, Richmond Heights February 2017-August 2018
Per diem physical therapist in the general inpatient rehabilitation setting.

The Rehabilitation Institute of St. Louis July 2016-February 2019
Full-time physical therapist in the inpatient rehabilitation setting with a neurologic focus on spinal cord injury, amputation, and general trauma.

Washington University Program of Physical Therapy
Clinical Associate March 2019- February 2023

Eighty-five percent of time spent in direct patient care and 15 percent of time spent in education. Clinical practice includes the following patient population: Multiple sclerosis, Parkinson's, vestibular, concussion, brain injury, stroke, spinal cord injury, post-COVID, debility, amputee and specialty seating and positioning clinic. My education role ranges from lab assisting and content developing for the Washington University Program of Physical Therapy and mentoring clinical associates.

Assistant Professor March 2023- Present
Time split between education and clinical practice division.

CLINICAL TITLE AND RESPONSIBILITIES

Neurological physical therapist working at the Washington University Program of Physical Therapy @4240 Clinic. Clinical practice includes, but is not limited to the following patient population: Multiple sclerosis, Parkinson's, vestibular, concussion, brain injury, stroke, spinal cord injury, post-COVID, debility, amputee and specialty seating and positioning clinic.

TEACHING TITLE AND RESPONSIBILITIES

Content creator for the following Courses: Module 5 and Module 6
Lab Assistant: Module 3, Module 5, and Module 6
Lab Assistant: Diagnosis and Management of Neuromuscular Conditions I and II
Advisor: DEA III

MEDICAL LICENSURE AND CERTIFICATION

Physical Therapist

Active:

State of Missouri
Issued 4.27.2016
State of Illinois
Issued 4.29.2020

Inactive:

State of Iowa
Issued 2.6.2014-1.15.2016
State Minnesota
Issued 7.9.2015-1.1.2016
State of Pennsylvania
Issued 5.28.2014-12.31.2016

Certified Specialist in Neurologic Physical Therapy	July 2016-Present
American Board of Physical Therapy Specialties	
Certified Brain Injury Specialist	October 2018-present
Certified Multiple Sclerosis Specialist	March 2020-Present
APTA Credentialed Clinical Instructor	October 2015
CPR and First Aid, American Heart Association, St. Paul, Minnesota	2011-present

NATIONAL COMMITTEES:

ANPT Practice Committee, <i>Member</i>	2021-present
FSBPT PTA Practice Analysis Task Force	2022
Echo MS- Central Hub at Washington University, <i>Team Member</i>	2020-2022
American Physical Therapy Association, <i>Member</i>	2011-present
Neurology Section, <i>Member</i>	2013- present
Brain Injury and Vestibular SIG, <i>Member</i>	2015-present
NCS Committee, <i>Member</i>	2017-2020

COMMUNITY SERVICE CONTRIBUTIONS:

Violence as a Public Health Issue, <i>panel member</i>	October 2021
Washington University School of Medicine. Virtual	
WUPT Running Clinic, <i>speaker/volunteer</i>	
Balance and Running, virtual	Fall 2021
Couch to 10K Saturday morning run, Forest Park	Fall 2019
Big River Speed Work	Fall 2019
Exercise and Parkinson's Disease, <i>speaker</i>	February 2021
Support group for individuals recently diagnosed with Parkinson's disease. Virtual	
Dignity Period Gala, <i>volunteer</i>	March 2020
St. Louis, MO	
Wheelchair Rugby Tournament, <i>volunteer</i>	February 2020
St. Peters, MO	
St. Louis Ataxia Support Group, <i>speaker</i>	Fall 2019
St. Louis, MO.	
Parkinson's Support Group, <i>speaker</i>	Spring 2019
Movers and Shakers, Kirkwood, MO	
St. Louis Women's Bike Summit, <i>vendor</i>	April 2019
St. Louis, MO	
Missouri Special Olympics, <i>volunteer</i>	April 2017
St. Louis Community College, St. Louis, MO	
FSBPT Item Writer 20 questions	2019
Neuro Academy CSM Booth, <i>volunteer</i>	February 2017
San Antonio, TX	
Disable Athlete Sports Association Adaptive Skiing, <i>volunteer</i>	January-February 2017
Hidden Valley, MO	
Courage Kenny Adaptive Ski and Sports, <i>volunteer</i>	December 2015-March 2016
Afton, MN	
Second Harvest, <i>volunteer</i>	March 2016
Golden Valley, MN	
Free Bikes for Kids, <i>volunteer</i>	December 2015
Minneapolis, MN	
Life Rolls On: We Will Surf Again, <i>volunteer</i>	June 2015
Wildwood Crest, NJ	
New Roads, New Directions: Finding Your Way After Brain Injury	November 2014
<i>Volunteer</i>	
Philadelphia, PA	

Race for Recovery 5K, <i>volunteer</i> Newtown, PA	October 2014
Up With Families, <i>volunteer</i> Davenport, IA	February 2013
King's Harvest Soup Kitchen, <i>volunteer</i> Davenport, IA	May-December 2012

MENTEE RECORD:

Clinical mentor to the following clinicians:

Sylvia Son 2022-2023

Elizabeth Hughes 2022

Amy DeFranco 2021

BIBLIOGRAPHY

POSTERS

M Crumley. *Feasibility of Moderate to High Intensity Gait Training in a Patient with Transfemoral Amputation*. ACRM Annual Conference virtual 2021. Accepted to CSM 2022

M Crumley, T Notestine, M Bland, B Crouner, R Duncan, C Holleran. *Barriers to and Percentage of Vital Sign Assessment in an Outpatient Physical Therapy Setting*. CSM 2021 virtual.

M Crumley. *Feasibility of High-Intensity Gait Training in an Individual with Chronic Severe Traumatic Brain Injury in the Outpatient Setting*. Abstracted accepted MPTA spring conference postponed 2020.

O Rinco, M Crumley, and K Indrelie. *Detecting Trace Amounts of Environmental Pollutants via Fluorescence Spectroscopy*. Poster Presentation. Presented at the Undergraduate Research Symposium in the Physical Sciences, Mathematics, and Computer Science, Washington University, St. Louis, MO. 2010.

PRESENTATIONS

M Crumley. *Feasibility of Moderate to High Intensity Gait Training in a Patient with Transfemoral Amputation*. Oral Presentation. Presented at Washington University Program of Physical Therapy Research Seminar, St. Louis, MO 2021.

M Crumley. *Intensive Gait Training*. Oral Presentation. Presented at The Rehabilitation Institute of St. Louis, St. Louis, MO 2018

M Crumley. *Differential Diagnosis of a Patient with Gait Dysfunction and Dizziness*. Oral Presentation. Presented at MossRehab, Elkins Park, PA 2015.

M Crumley. *Vestibular Migraine-Literature Review*. Oral Presentation. Presented at MossRehab, Elkins Park, PA 2015.

M Crumley. *A Case Study in a Patient with Ataxia*. Oral Presentation. Presented at MossRehab, Elkins Park, PA 2014.

M Crumley. *Ataxia Outcome Measures-Literature Review*. Oral Presentation. Presented at MossRehab, Elkins Park, PA 2014.

M Crumley, M Elgin, E Horner, L Wettach; and John O. Barr, PT, PhD, advisor. *Is Mirror Therapy a beneficial adjunct treatment in patients with sub-acute stroke?* Oral Presentation and Literature Review. Presented at St. Ambrose University, Davenport, IA. 2013

J Armstead, M Crumley, J Frinak, S Small, L Jay. *Solving Numerical Systems Using Specialized Partitioned Additive Runge-Kutta Methods*. Oral Presentation. Presented at the Iowa Summer Research Symposium, University of Iowa, Iowa City, IA. 2009.

CLINICIAN-EDUCATOR PORTFOLIO

TEACHING EXPERIENCE

Module VI, <i>Lab Assistant, Content creator</i> Washington University Program of Physical Therapy, St. Louis, MO	Spring 2023
Module V, <i>Lab Assistant, Content creator</i> Washington University Program of Physical Therapy, St. Louis, MO	Fall 2022
Case Integration I, <i>Advisor</i> Washington University Program of Physical Therapy, St. Louis, MO	Fall 2021
Module III, <i>Lab Assistant</i> Washington University Program of Physical Therapy, St. Louis, MO	Fall 2021
“Special Considerations for Individuals with Traumatic Brain Injury” <i>Lecturer</i> Washington University Program of Physical Therapy, St. Louis, MO 2 hours of asynchronous content on physical therapy treatment of individuals with brain injury including spasticity and heterotrophic ossification management.	Spring 2021/2022
DEA III, <i>Advisor</i> Washington University Program of Physical Therapy, St. Louis, MO	Spring 2020-Present
Diagnosis and Management of Neuromuscular Conditions I and II, <i>Lab Assistant, Practical Grader, and assist with case development</i> Washington University Program of Physical Therapy, St. Louis, MO	April 2017- Present
Washington University Part and Full-time <i>Clinical Instructor</i> : ECE and CE I (1), II (2), III (2), IV (2) Washington University Outpatient Clinic TRISL location St. Louis, MO	2017-Present
“Intensive Gait Training” Neuro Focus Study, <i>Lab Assistant</i> Washington University, St. Louis, MO	April 2018-Present
NCS Online Review Board, <i>Content Contributor</i> Statistics Review and Introduction into Evidence Based-Practice	2018-2020
Regis University Full-Time <i>Clinical Instructor</i> The Rehabilitation Institute of St. Louis, St. Louis, MO	Fall 2018
Neuro rounds for Case integration III, <i>Clinical Instructor</i>	Spring 2018

Washington University, St. Louis, MO	
Transfer Training Blitz Station	March 2017 and 2018
The Rehabilitation Institute of St. Louis, St. Louis, MO	
St. Louis University Full-Time Clinical Instructor	Spring 2018
The Rehabilitation Institute of St. Louis, St. Louis, MO	
Executive Function, <i>Widener University Lecture</i>	June 2015
Co-presenter	
Arcadia University Part-Time Clinical Instructor	September 2014-March 2015
<i>MossRehab Elkins Park, PA</i>	
Widener Student Experience, Brain Injury	September 2014-October 2014

PROFESSIONAL DEVELOPMENT

Witnessing Whiteness: The Need to Talk about Race and How to Do It, <i>Participant</i>	2020-2021
City Faces Tour, <i>Participant</i>	2019