

# Amber LaMarca PT, DPT

## Curriculum Vitae

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### EDUCATION

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**PhD Candidate Doctor in Rehabilitation Sciences**- MGH Institute of Health Professions, Boston MA (2021- Present)

- Research focus: Neurological rehabilitation, behavior change, implementation science

**Doctorate of Physical Therapy**- Northeastern University, Boston, MA (2016)

**Bachelor of Science in Health Science** - Northeastern University, Boston, MA (2015)

*Dean's List, Honors in the Discipline, Magna Cum Laude*

### LICENSURE, CERTIFICATIONS AND COMPETENCIES

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**Commonwealth of Massachusetts** - Physical Therapist License

**Credentialed Clinical Instructor** – American Physical Therapy Association

**Certified CPR Instructor** – American Heart Association

**L300 Foot Drop System Certification** – CIAO Seminars

**RT300 FES Ergometer Certification** – Restorative Therapies

**Vector Super-User Certification** – Bioness

**Lokomat Competency** - Spaulding Rehabilitation Hospital

### PROFESSIONAL ORGANIZATIONS

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**Rehabilitation Outcomes Center at Spaulding (ROCS)** - Spaulding Rehabilitation Hospital

**Research Conversations (RECON)** - MGH Institute of Health Professions

**Applying Implementation Research Methods Seminar Group (AIRMS)** - Mongan Institute

**MGRI Division of Clinical Research Education Investigator Working Group** - Massachusetts General Hospital

**Neurology Chapter Member**- American Physical Therapy Association

**Stroke Special Interest Group Member** - Academy of Neurologic Physical Therapy

**Spinal Cord Injury Special Interest Group Member** - Academy of Neurologic Physical Therapy

**Brain Injury Special Interest Group Member**- Academy of Neurologic Physical Therapy

**Falls and Balance Special Interest Group Member** - Academy of Neurologic Physical Therapy

### CLINICAL POSITIONS

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**Spaulding Rehabilitation Hospital** - Outpatient PT, Advanced Clinician (September 2016 - Present)

- Manage caseload for patients with subacute and chronic neurologic and orthopedic conditions
- Brace clinic consultant to determine appropriate bracing for inpatient and outpatient caseloads
- Participate in multidisciplinary Boost program - intensive outpatient-based amputee rehabilitation program
- Developed and facilitated mixed skills group for patients with cognitive and mobility deficits to assist with integration back into community

- Design aquatic therapy treatments for patients with chronic pain, low activity tolerance, neurological deficits, and balance disorders

**Boston Hope Field Hospital** - Staff PT Boston Convention Center (April 2020-May 2020)

- 1,000 bed constructed post-acute care field hospital created to combat hospital bed shortage during COVID 19 pandemic
- Collaborated with health care professionals from the national guard and multiple hospital networks to provide treatment of patients with COVID - 19
- Assisted with developing therapy standards and documentation
- Triage and prioritized patients with high therapy needs

**Spaulding Rehabilitation Hospital**- Inpatient PT, per diem (June 2017- May 2020)

- Rehabilitated patients with multiple complex diagnoses including patients who have suffered a TBI, CVA, multi-trauma

**Spaulding Rehabilitation Quincy Outpatient Center**- Outpatient Clinical Student (January 2016-April 2016)

- Rehabilitated neurological and orthopedic conditions
- Performed aquatic therapy

**Life Care Center (SNF)**– Inpatient Clinical Student (September 2015-December 2015)

- Created treatment plans for the geriatric population and administered wound care
- Promoted Life Care Center with balance screening in the community

**ACADEMIC/ TEACHING POSITIONS**

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**Guest Lecturer** for PT-814 Patient/Client Management Contextual Factors (Summer 2023, Summer 2024)

**Guest Lecturer** for Neurophysiology content in PA-734 Essentials of Neurology,, Master of Physician Assistant Studies Program, Department of Physician Assistant Studies, MGH Institute of Health Professions. (Fall 2023)

**Co-instructor** for PT-880 Special Topics: Geriatrics- Doctor of Physical Therapy program, Department of Physical Therapy, MGH Institute of Health Professions (Summer 2023)

**Seminar Leader** - Doctor of Physical Therapy program, Department of Physical Therapy, MGH Institute of Health Professions (2024): PT 710 Patient Client Management

**Lab Instructor** - Doctor of Physical Therapy program, Department of Physical Therapy, MGH Institute of Health Professions (2020- Current)

PT-604 Patient/Client Management- Cardiovascular and Pulmonary Conditions (Fall 2020, Fall 2021, Fall 2023)

PT- 713 Patient/Client Management- Spinal Cord Injury and Amputation (Summer 2020, Fall 2022, Fall 2023, Fall 2024)

PT-711 Patient/Client Management- Acquired Brain Dysfunction (Summer 2020, Fall 2022)

PT-603 Fundamentals of Patient/ Client Management 3 (Fall 2021, Fall 2022)

PT-601 Fundamentals of Patient/Client Management 1 (Summer 2021, Summer 2022)

PT- 610 Patient/Client Management - Balance (Fall 2020, Fall 2021)

**Clinical Instructor** – Northeastern University (2019)

**Clinical Instructor**- MGH Institute of Health Professions (2018)

#### RESEARCH POSITIONS

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**Predoctoral Research Fellow**- Behavior Abilities and Technology Lab (B-ABLE), Massachusetts General Hospital Institute of Health Professions (2022- Present)

**Research Assistant**- Paralysis Center Lab, Massachusetts General Hospital (2021- 2022)

#### PRESENTATIONS

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##### Speaker Presentations

“Bridging Capacity and Performance: Remote Monitoring and Digital Health Interventions in the Home Setting to Promote Activity.” APTA MA Neurology Special Interest Group Event: Sharing Research in Neurological Physical Therapy for Persons with Decreased Physical Activity and Risk for Falls, invited speaker. Virtual presentation, May 2024.

“Promoting Upper Extremity Movement in the Home after Stroke using Mobile Health Engagement ”, MGH Institute of Health Professions seminar, speaker. Charlestown, MA 2023.

“Surgical Functional Restoration: Rehabilitation Considerations” Spaulding Rehabilitation Hospital, combined inpatient and outpatient in-service, speaker. Charlestown, MA 2022.

“Tibial Neurotomy for the Spastic Equinovarus Foot: Patient perspective and functional outcomes”, MGH Institute of Health Professions seminar, speaker. Charlestown, MA 2022.

“Goal Attainment Scaling for Lower Extremity Spasticity” University of Utah, speaker. Virtual presentation, 2022.

“Long COVID: Outpatient Rehabilitation”, Spaulding Rehabilitation Hospital in-service, speaker. Charlestown, MA 2021.

“Post-Acute Recovery from COVID-19: Therapy Guidelines for the Home Health and Outpatient Therapist” Spaulding Rehabilitation Hospital Virtual network wide inter-professional presentation, speaker. Virtual presentation, 2020.

“Functional Neurological Disorders” Spaulding Rehabilitation Hospital outpatient in-service, speaker. Charlestown, MA 2017.

##### Poster Presentations

**LaMarca A**, Tse I, Karim R, Larsen G, Rungren H, Keysor J. “A Systematic Review for Behaviorally Informed Remote Monitoring Interventions for People with Neurological Conditions: Protocol

and Progress to Date” MGH Institute of Health Professions Research and Scholarship Day, Poster Presentation. Charlestown, MA April 2024.

**LaMarca A**, Tse I, Keysor J. “Use of Michie’s Behavior Change Taxonomy to Classify Behavior Change Techniques in Remote Monitoring Interventions for Older Adults with Disabilities”, Good Shepherd Leading Disruption: A Health-Care Innovation Summit”, poster presentation. Bethlehem, PA April 2024

**LaMarca A**, Brown J. “Tibial Neurotomy for the Spastic Equinovarus Foot: Patient perspective and functional outcomes”, MGH Clinical Research Day, virtual poster presentation. October 2022.

#### **PUBLICATIONS AND AWARDS**

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**LaMarca A**, Tse I, Keysor J. Rehabilitation Technologies for Chronic Conditions: Will We Sink or Swim? Healthcare. 2023; 11(20):2751. <https://doi.org/10.3390/healthcare11202751>

**LaMarca AL**, Krenn MJ, Kelso-Trass MA, et al. Selective Tibial Neurotomy Outcomes for Spastic Equinovarus Foot: Patient Expectations and Functional Assessment [published online ahead of print, 2023 May 18]. Neurosurgery. 2023;10.1227/neu.0000000000002530. doi:10.1227/neu.0000000000002530

**LaMarca AL**, MacDonald KC. On "Home and Community-Based Physical Therapist Management of Adults With Post-Intensive Care Syndrome." Smith J, Lee AC, Zeleznik H, et al. Phys Ther. 2020;100:1062-1073. Phys Ther. 2021;101(5):pzab086. doi:10.1093/ptj/pzab086

**Dr. David Krebs Doctoral Research Fund Award 2024** - Award was given to support scholarly activities and dissemination of research in areas related to motor function.

**Pillars of Excellence Award 2020** - Awarded two team awards for my work at Boston Hope treating patients with COVID-19 and for my contributions to the COVID-19 Recovery Team

#### **PROFESSIONAL SERVICE**

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**PhD Student Peer Mentor-** School of Health and Rehabilitation Sciences, MGH Institute of Health Professions (2023- Present)

**DPT Student Mentor-** Department of Physical Therapy, MGH Institute of Health Professions (2022- Present)

**DPT Student Mentor-** Department of Physical Therapy, Northeastern University (2024- Present)

**Power, Privilege, & Positionality (PPP) Panel and Course Facilitator-** Justice, Equity, Diversity, and Inclusion (JEDI) Office, MGH Institute of Health Professions (2023)

**Implementation Science (IS) for All Conference Facilitator-** MGH Institute of Health Professions (2022, 2023)

#### **LEADERSHIP POSITIONS**

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**COVID-19 recovery program board member** – Spaulding Rehabilitation Hospital. Multidisciplinary team of physicians and therapists with the objective of forming a cohesive outpatient program for COVID -19 recovery.

**Outpatient Neurology Skills Group Leader**– Spaulding Rehabilitation Hospital. Led and organized topics for neurology skills monthly meetings to encourage best practice and collaboration between clinicians.

**Vector Super User** – Spaulding Rehabilitation Hospital. Conducted regular staff training on Vector machine and served as a consultant for complex patients utilizing the technology.

**Social Coordinator**- Spaulding Rehabilitation Hospital. Organized all outpatient staff events and outings to promote improved work morale and collaborations.