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 School of Health and Rehabilitation Sciences  
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**Education**

Doctor of Philosophy Clinical Translational Rehabilitation & Health Sciences	Marquette University (MU) Milwaukee, WI	2016
Doctorate Physical Therapy	University of St. Augustine St. Augustine, FL	2008
Master's of Physical Therapy	Marquette University Milwaukee, WI	2001
Bachelors of Arts Spanish for the Professions	Marquette University Milwaukee, WI	1999

**Professional Experiences**

2021-currently	Assistant Professor, University of Pittsburgh (Pitt), Pittsburgh, PA
2016-2020	Assistant Professor, Concordia University (CUW), Mequon, WI
2015-2016	Research Associate, University WI-Milwaukee (UWM), Milwaukee, WI
2015-2016	Post-Doctoral Fellow, UWM
2014-2014	Instructor of Advanced Neurologic Physical Therapy (PT), MU
2011-2015	Graduate Assistant, MU
2011-2011	Laboratory Supervisor of Physiology of Activity, MU
2010-2011	PT Assistant Instructor & Academic Coordinator of Clinical Education, Gateway Technical College, Kenosha, WI
2004-2005	PT Academic Advisor, MU,
2002-2006, 2009-2012	Instructor of Introduction to PT, MU
2001- currently	Staff Physical Therapist (orthopedics and sports medicine), Aurora/Advocate Health Care, Milwaukee, WI

**Presentations (select)**

ELC Conference Presenter, Anatomy	2020
WOTA Conference Presenter, Anatomy	2019
WOTA Conference Presenter, Anatomy & Classroom Engagement	2018
WOTA Conference Presenter, Healthy Heroes & Handwriting Camps	2017
Guest Lecturer, CUW Stroke & Exercise	2017-2020

Guest Lecturer, UWM Health Careers	2017
CUW Conference Presenter, Shoulder Pain: Musculoskeletal or Visceral Origin	2017
Guest Lecturer, MU Neurophysiology	2013-2014
Guest Lecturer, MU Advanced Principles & Instrumentation in Biomechanics	2011
GTC Clinical Performance Instrument Training Lecturer	2010
MU Health Careers Opportunity Program (HCOP) PT Presenter	1996-2015
Aurora PT In-services	2002-2011

### **Funding & Awards (select)**

Concordia Intramural Teaching Grant	2016-2020
Concordia Intramural Research Grant	2017, 2020
We Energies Foundation Grant	2017
Shopko Foundation Grant	2017
R21 Funding Collaboration with MU & UWM	2014-2015
University of Florida Neuromuscular Plasticity Scholar	2013
Marquette University Graduate School Travel Award	2013
Clinical Translational Rehab & Health Sciences Fellowship	2011-2015

### **Membership (select)**

American Physical Therapy Association (APTA) – Education Section & Anatomy SIG, Orthopedic Section, Health Policy, and Administration Section (Technology & Global Health)

WI Physical Therapy Association (WPTA)

Wisconsin Occupational Therapy Association (WOTA)

Clinical Translation Health Sciences of Southeastern WI

American Association of Anatomists

American Associations of Clinical Anatomists

Aurora Health Care Clinical Reference Member, Milwaukee, WI

### **Publications**

Walston, Z, **Berrios Barillas, R.** (2021). The impact of graft type on rehabilitation outcomes following ACL reconstruction: Bone patellar tendon bone versus quadriceps tendon grafts. *Physical Therapy in Sport*. 52, 234-238.

<https://doi.org/10.1016/j.ptsp.2021.10.004>.

**Berrios Barillas, R,** Lemley, K. (2021). Is compressed and limited synchronous delivery of anatomy content in a hybrid delivery format effective in transitional OT student learning. *Journal of Occupational Therapy Education*. 5(2).

<https://doi.org/10.26681/jote.2021.050201>

Hyingstrom, A, Cho, C, **Berrios Barillas, R,** Joshi, M, Rowley, T, Keenan, K, Staudenmayer, J, Swartz, AM, Strath, S. (2020). Identification of latent classes of motor performance in a heterogeneous population of adults. *Archives of Rehabilitation Research and Clinical Translation*, 2(4). <https://doi.org/10.1016/j.arrct.2020.100080>.

**Berrios Barillas, R,** Lemley, K. (2019). Supervised human anatomy laboratory time and its effect on short- and long-term academic course grade performance. *Journal of Anatomy*.

**Berrios Barillas, R.** (2019). The effect of 3D human anatomy software on online students' academic performance. *Journal of Occupational Therapy Education*, 3(2). <https://encompass.eku.edu/jote/vol3/iss2/2>.

Benning, M, Lemkuil, S, Sullivan, A, Moser, C, Watry-Christian, M, **Berrios, R.** (2018). Effectiveness of a 5-day summer handwriting camp for children ages 5-9 years old. *Journal of Occupational Therapy, Schools & Early Intervention*, 11(4):385-395. <https://doi.org/10.1080/19411243.2018.1496868>.

Kalinosky BT, **Berrios Barillas R**, Schmit BD. Structurofunctional resting-state networks correlate with motor function in chronic stroke. (2017). *NeuroImage: Clinical*, 16C:610-623. DOI:10.1016/j.nicl.2017.07.002.

Kirking M, **Berrios Barillas R**, Nelson P, Hunter S, Hyngstrom A. (2017). Sex differences in neuromuscular fatigue of the knee extensors post stroke. *Brain Science*. PMID: 28085089

Murphy S, **Berrios R**, Nelson A, Negro F, Farina D, Schmit B, Hyngstrom A. (2015) Impaired regulation post-stroke of motor unit firing behavior during volitional relaxation of knee extensor torque assessed using high density surface EMG decomposition. *IEEE Engineering in Medicine and Biology Society Conference*. PMID: 26737320

Rybar MM, Walker, E, Kuhnen, HR, Ouellette DR, **Berrios R**, Hunter SK, Hyngstrom, AS. (2014). The stroke-related effects of hip flexion fatigue on over ground walking. *Gait & Posture*, 39(4):1103-8. doi: 10.1016/j.gaitpost.2014.01.012.

### **Abstracts (selected)**

Divido, J, Mancilla, R, **Berrios Barillas, R.** *Collaborative assessment of student learning through Complete Anatomy in online health science courses*. University of Pittsburgh Assessment and Teaching Conference, virtual, 2022.

Wilson, R, Mekonnen, H, Holmgren, E, Gaatz, A, Lemley, K, **Berrios Barillas, R.** *What are predictors for passing the Occupational Therapy licensing exam?* AOTA Inspire, accepted abstract, 2021.

**Berrios Barillas, R**, Walston, Z. *Is post-surgical knee impairment and rehabilitation cost impacted by use of an autograft versus allograft?* APTA Combined Sections Meeting, virtual, 2021.

Walston, Z, **Berrios Barillas, R.** *The effectiveness of rehabilitation on post-surgical knee graft: bone patellar tendon bone versus quadriceps tendon*. APTA Combined Sections Meeting, virtual, 2021.

Lafrenz, O, Lucht, A, Banks, A, Lemley, K, **Berrios Barillas, R.** *Human dissection and its impact on face-to-face and hybrid OT students' academic performances*. Annual Occupational Therapy Association Conference, Boston, MA, 2020 (accepted abstract; cancelled due to COVID-19).

Sabel, B, Hilbelink, M, Sass, K, Cunningham, B, Radue, K, Warbelton, M, **Berrios, R.** *Impact of 3D human anatomy software on academic performance of non-traditional occupational therapy students*. Annual Occupational Therapy Association/Pi Theta Epsilon Annual Conference, New Orleans, LA, 2019.

Withey, M, Bushke, M, Runke, C, Carlson, C, Kohlbauer, E, Roozenboom, B, Moser, C, Watry-Christian, M, **Berrios, R.** *Preventative occupational therapy impact on classroom engagement in urban parochial schools*. Annual Occupational Therapy Association/Pi Theta Epsilon Annual Conference, New Orleans, LA, 2019.

Sullivan, A, Alfano, A, Benning, M, Lemkuil, S, Moser, C, Watry-Christian, M, **Berrios Barillas, R.** *The effects of a 5-day manuscript and cursive camp for 4–10-year-old children.* AOTA/NBCOT National Student Conclave, Birmingham, AL, 2017.

Carlson, C, Kohlbauer, E, Roozenboom, B, Weingarten, S, Watry-Christian, M, **Berrios Barillas, R.** *The impact of service learning and academic performance on professional growth.* CUW Faculty Conference, 2017.

Lutz, M, Menozi, A, Moser, C, Watry, M, **Berrios Barillas, R.** *Effects of an intensive short-term occupational therapy program on the quality of manuscript handwriting.* AOTA/NBCOT National Student Conclave, Dearborn, MI, 2016.

**Berrios, R,** Joshi, M, Keenan, K, Strath, S, Hyingstrom, A. *The relationship between sub-maximal knee extensor force regulation and function post stroke.* APTA Combined Sections Meeting, Anahiem, CA, 2016.

**Berrios, R,** Kirking, M, Kuhnen, H, Hunter, S, Schmit, B, Hyingstrom A. *Fatiguing contractions of paretic knee extensors do not exacerbate stretch reflex responses.* Society of Neuroscience Annual Meeting, 2015.

Murphy S, **Berrios R,** Hunter S, Negro F, Farina D, Nelson PA, Schmit B, Keenan K, Hyingstrom A. *Modulation of motor units during repeated contractions post-stroke.* Society of Neuroscience Annual Meeting, 2015.

Murphy S, **Berrios R,** Hunter S, Negro F, Farina D, Nelson PA, Schmit B, Keenan K, Hyingstrom A. *Stroke-related changes in the motor unit firing behavior during fatiguing contractions.* International Motorneuron Meeting, Italy, 2014.

Rybar M, Kuhnen, H, **Berrios Barillas R,** Walker E, Ouellette D, Hunter S, Schmit B, Hyingstrom A. *Hip flexor fatigue following sub-maximal concentric contractions and walking function post stroke.* WPTA Spring Conference, 2014.

Ouellette D, Rybar M, Kuhnen, H, Walker E, **Berrios Barillas R,** Hunter S, Schmit B, Hyingstrom A. *Hip flexor fatigue following sub-maximal concentric contractions and walking function post stroke.* WPTA Spring Conference, 2013.

**Berrios Barillas R,** Kirking MD, Rybar MM, Schmit BD, Kipp K, and Hyingstrom AS. *The effect of stimulus frequency on h-reflex responses post stroke.* University of Florida Neuromuscular Plasticity Symposium, 2013.

Rybar M, Kuhnen, H, **Berrios Barillas R,** Walker E, Ouellette D, Dillon L, Patel M, Hunter S, Schmit B, Hyingstrom A. *Hip flexor fatigue following sub-maximal concentric contractions and walking function post stroke.* APTA Combined Sections Meeting, San Diego, CA, 2013.

**Service (selected)**

Pitt PT Admissions Committee	2021-currently
Journal of Bodywork & Movement Therapies – Manuscript Reviewer	2021-currently
The American Journal of Occupational Therapy - Manuscript Reviewer	2021-currently
Medical Organization for Latino Advancement – Board Trustee	2021-currently
Journal of Occupational Therapy Education - Manuscript Reviewer	2020-currently
APTA Anatomy SIG Educational Research Grant Reviewer	2020-currently
CUW Concordia Intramural Research Grant Reviewer	2020
Clinical Anatomy - Manuscript Reviewer	2019-currently

Journal of Anatomy - Manuscript Reviewer	2019-currently
APTA Combined Section Abstract Education Section Reviewer	2019-currently
Franklin Public Library – Board Trustee	2019-2022
CUW OT Admissions Committee Chair	2018-2020
APTA Anatomy SIG Membership Secretary/Treasurer	2018-2021
WPTA Awards Committee Member	2017-currently
CUW New Faculty Mentor	2017-2018
CUW OT Search Committee Member	2017-2018
CUW Inter-professional Event Facilitator	2016-2020
CUW OT Admissions Committee Member	2016-2020
Croatian Eagles Soccer Club	2014-currently
St. Ben’s Feed the Hungry	2012
Public/Christian School Parent Volunteer	2011-currently
Miller Ride for the Arts	2009-2012
Student Poster Judge (Milwaukee Public Schools, WPTA)	2002, 2013
MU Health Careers Opportunity Program	1996-2012