

CURRICULUM VITAE

Laura A. Baehr

Education

- 2019-Present **PhD Candidate: Health and Rehabilitation Science**
Department of Physical Therapy and Rehabilitation Science
Anticipated Defense March 2023
Drexel University, Philadelphia, PA
- 2016-2019 **Doctor of Physical Therapy (DPT)**
Temple University, Philadelphia, PA
- 2008-2012 **Dual Bachelor of Science and Art: Neuroscience and Dance**
Muhlenberg College, Allentown, PA

Licensure and Certifications

- 2019-present Pennsylvania Physical Therapist License #PT027846
2018-Present Basic Life Support, American Heart Association
2018-Present Heartsaver First Aid, American Heart Association

Employment and Professional Appointments

- 2023-present **Assistant Professor of Instruction, Department of Health and Rehabilitation Sciences, Temple University, Philadelphia, PA**
Provide didactic and experiential instruction throughout the Doctor of Physical Therapy curriculum (Integrated Clinical Experiences, Clinical Examination and Intervention Skills), advise students on all aspects of professional learning and career growth.
- 2021-present **Adapted Exercise Instructor, Move United Sport, Rockville, MD**
Inaugural OnDemand Virtual Platform Instructor reaching 300,000 individuals nationwide. Invited Guest Yoga teacher at the annual Junior Nationals Adapted Sports Competition for aspiring Paralympic athletes.
- 2020-2022 **Adjunct Instructor: Health Sciences, Temple University, Philadelphia, PA**
Teach Advanced Writing Intensive for Junior-Senior Undergraduate Health Sciences majors. Clinically mentored Doctor of Physical Therapy students during Integrated Clinical Experience in Telehealth.
- 2019-2022 **Research Fellow: Physical Therapy & Rehabilitation Science, Drexel University, Philadelphia, PA**
Mentor: Margaret Finley, PT, PhD
Mentored leadership in all aspects of doctoral research in Rehabilitation Science (grant writing, study design, data collection, analysis, dissemination). Ongoing appointment as research clinician for foundation funded project examining psychosocial features of exercise behavior by individuals with spinal cord injury. Teach Doctor of Physical Therapy students in foundational Clinical Reasoning and Simulated Patient course. Instruct guest lectures in Evidence Based Practice series, Applied Biomechanics, and Therapeutic Modalities.
- 2012-2016 **Research Specialist, Frontotemporal Degeneration Center and Department of Bioengineering, University of Pennsylvania, Philadelphia, PA**
Mentors: Murray Grossman, MD, EdD, Corey McMillan, PhD, Dave Meaney, PhD
Administered cognitive tests and analyzed group level structural MRI data to determine factors related to development of frontotemporal dementia and related disorders. Liaison to Pennsylvania Hospital Movement Disorders Clinic. Prepared and presented research findings for posters and publications. Examined primary neuronal cultures to elucidate circuit level mechanism in traumatic brain injury (TBI). Performed animal surgery to determine functional/histological impact of TBI.

Publications

Baehr LA, Kaimal G, Hiremath S, et al. Staying active after rehab: Physical activity perspectives with a spinal cord injury beyond functional gains. *PLoS ONE*. 2022, 17(3):e0265807. doi: 10.1371/journal.pone.0265807.

Baehr LA, Finley MA. Feasibility of group tele-exercise for individuals with spinal cord injury: A mixed methods study. *JCEP*. Under Review, May 2022.

Baehr LA, Fisher K, Finley MA. Perspectives on health and aging with spinal cord injury: a qualitative descriptive study. *PTJ*. Under Review, March 2022.

Finley MA, **Baehr LA**, Bruneau M, Kaimal G. Group tele-exercise for individuals with spinal cord injury: A mixed methods pilot study. *J of Phys Act Res*. 2022, 7(1):10-17. doi: 10.12691/jpar-7-1-3.

Finley MA, Euler E, **Baehr LA**, et al. Relationship of psychosocial factors and musculoskeletal pain among individuals with newly acquired spinal cord injury. *Spinal Cord Ser Cases*. 2021;7(1):61. doi: 10.1038/s41394-021-00415-4.

Baehr LA, Frey-Law LA, Finley MA. Quantitative sensory changes related to physical activity in adult populations: A scoping review. *Am J Phys Med Rehabil*. 2021, online ahead of print. doi: 10.1097/PHM.0000000000001883.

Heim S, McMillan C, Clark R, **Baehr LA**, Ternes K, Olm C, Min N, Grossman M. How the brain learns how few are “many”: an fMRI study of the flexibility of quantifier semantics. *Neuroimage*. 2016;125:45-52. doi: 10.1016/j.neuroimage.2015.10.035.

Bisbing T, Olm C, McMillan C, Rascovsky K, **Baehr LA**, Ternes K, Irwin D, Clark R, Grossman M. Estimating frontal and parietal involvement in cognitive estimation: a study of focal neurodegenerative diseases. *Front. Hum. Neurosci*. 2015;9:317. doi: 10.3389/fnhum.2015.00317.

Awards and Honors

Drexel Graduate College Teaching Assistant Excellence Award, 2022

Drexel University Emerging Graduate Scholars Conference, 2022
3 Minute Thesis People’s Choice Award

Drexel University College of Nursing and Health Professions Person of Purpose, 2021
Distinguished College-wide honor for innate desire to heal and a responsibility to serve those whose voices are not heard

APTA Academy of Research Qualitative SIG Post-Professional Student Researcher Liaison, 2021
Invited lead membership role to engage doctoral students interested in pursuing qualitative and mixed methodology research initiatives across the United States

AgeWell Collaboratory Cell2Society Graduate Student Pilot Award, 2020
Two-year pilot grant to support preliminary study supporting dissertation project

Drexel University Emerging Graduate Scholars Conference, 2020
Provost’s Award: Second Place Oral Research Presentation

Invited Alumna Panelist, Muhlenberg Dance Wellness Symposium, 2020

Graduate College Fellowship, Drexel University, 2019
Awarded to highly qualified doctoral students in support of pre-candidacy work

College of Public Health Graduation Speaker, Temple University, 2019

Outstanding Original Research Presentation Award, Temple University, 2018

Community-Based Exercise for Individuals with Non-Communicable Diseases
Mentors: Scott Burns, PT, DPT, Elizabeth Thompson, PT, PhD

Hyman Dervitz Scholarship, Temple University, 2018

For high performance in academics, collaborative leadership, volunteerism, social conscience

Invited Panelist, Visionaries and Innovators: Joys and Challenges of Being a Woman in STEM, Montgomery County Commission on Women and Families, 2013

Best Oral Presentation in Neurosciences, Lehigh Valley Society for Neuroscience, 2012

Modeling Musca behavior on a visual discrimination task
Mentor: Dr. Patrick Williams

Seena Marcus Arts Scholarship, Muhlenberg College, 2012

Muhlenberg Presidential Merit Scholarship, Muhlenberg College, 2008-2012

Talent Grant (Dance), Muhlenberg College, 2008-2012

Grants and Fellowships

Current Support

PA Dept of Health RFA 67-127 (Recommended for funding): "Tele-exercise for individuals with SCI: Physical, Psychological, and Social Responses"

Role: Lead Research Clinician, December 1, 2022-November 30, 2026.

Craig H. Nielson Foundation Grant: "Integrated tele-exercise for individuals with SCI: Psychological and social responses with spinal cord injury"

Role: Research Clinician, April 30, 2022-April 29, 2024.

Drexel University Dean's PhD Student Research Award: "Impact of group tele-exercise on determinants of physical activity behavior for individuals with spinal cord injury"

Role: Principal Investigator, April 1 2022-June 1, 2023.

Completed Support

Drexel University College of Nursing and Health Professions Graduate Fellowship

Role: Research Fellow, September 2019 - September 2022.

Cell2Society Aging Research Network Graduate Student Pilot Funding: "Looking to the Future: Exploring Aging with Spinal Cord Injury"

Role: Principal Investigator, July 1, 2020 - December 31, 2021.

Drexel University Graduate College Pre-Candidacy Fellowship Award

Role: Research Fellow, September 2019 - September 2021.

Conferences

Baehr LA, Fisher K, Finley MA. "Insights from a remotely delivered qualitative descriptive study with individuals with spinal cord injury". The Qualitative Report Annual Conference, *accepted for 2/16-2/18/22, virtual*.

Baehr LA. "Using a convergent mixed methods design to evaluate the impact of group tele-exercise program participation on physical activity in individuals with spinal cord injury". Mixed Methods International Research Association Global Conference, 8/3-8/4/22, *virtual*.

Baehr LA, Finley MA. "Feasibility and preliminary outcomes of a group tele-exercise class for individuals with spinal cord injury". American College of Sports Medicine and World Congress, 5/31-6/4/22, San Diego, CA.

Finley MA, **Baehr LA**, Geigle P. "Pain-related psychological factors in individuals with violent vs. nonviolent spinal cord injury onset". American Physical Therapy Association Combined Sections Meeting, 2/2-2/5/22, San Antonio, TX.

Baehr LA, Fisher K, Finley MA. "Health and aging beyond "rehab mode" with spinal cord injury: A qualitative descriptive study". American Physical Therapy Association Combined Sections Meeting, 2/2-2/5/22, San Antonio, TX.

Baehr LA, Warchal-King J. "HOMEBody: a multigenerational exploration of community performance and what it means to be home". National Dance Education Conference, 10/8-10/9/22, virtual.

McMillan C, Irwin D, **Baehr LA**, Ternes K, Olm C, Van Deerlin V, Lee V, Trojanowski J, Grossman M. "Neuroimaging-based staging of pathological spread in patients with known tau pathology." American Academy of Neurology, AAN 67th Annual Meeting, 4/18-4/25/15, Washington, DC.

Rascovsky K, Moran E, **Baehr LA**, Irwin D, McMillan C, Grossman M. "Utility and neuroanatomical correlates of the FTLN-NACC neuropsychology module in the differential diagnosis of behavioral variant frontotemporal dementia and Alzheimer's disease." American Academy of Neurology, AAN 67th Annual Meeting, 4/18-4/25/15, Washington, D.

Baehr LA, McMillan C, Rascovsky K, Powers J, Burkholder L, Grossman M. "Strategic problem solving in behavioral variant frontotemporal dementia." American Academy of Neurology, AAN 66th Annual Meeting, 4/26-5/3/14, Philadelphia, PA.

Invited Presentations

Baehr LA. "Physical Activity Access and Strategies for Individuals with Chronic Health Conditions". Jefferson University Sidney Kimmel Medical College Fitness and Nutrition Seminar, Philadelphia, PA, *Anticipated November 13, 2022*.

Baehr LA. "Investigating and influencing movement systems: The choreography of bodies and built environments". Art-Reach Cultural Accessibility Conference, Philadelphia, PA, *Anticipated September 20, 2022*.

Baehr LA. "My Road to DPT and Beyond". Temple University Pre-Physical Therapy Association Guest Lecture, Temple University, 4/4/2022.

Baehr LA. "Qualitative methodology in a virtual environment". Columbia University Studio Discussions, 3/22/2022.

Baehr LA. "Reflecting on benefits and challenges of research from a distance: tele-exercise for individuals with spinal cord injury. Scholars Share, Drexel University, 3/3/2022.

Baehr LA. "Practical Primer on Physical Activity for Individuals with Disabilities". Adaptive Sports Northwest Coaches and Athletes Seminar, 5/22/2021.

Baehr LA. "Contextualizing physical activity perceptions and recommendations of individuals with chronic spinal cord injury". Rehabilitation Sciences Seminar, Drexel University, 4/7/2021.

Baehr LA. "The Practice of Embodied Science". Dance Appreciation in Health Sciences Guest Lecture, Alvernia University, 3/23/2021.

Baehr LA. "My Road to DPT and Beyond". Temple University Pre-Physical Therapy Association Guest Lecture, Temple University, 2/9/2021.

Baehr LA. "Physical Activity and Quantitative Sensory Testing in Adults: A Scoping Review". Rehabilitation Sciences Seminar, Drexel University, 2/3/2021.

Baehr LA. "Qualitative Project Share: Living Well with Spinal Cord Injury". Graduate Mixed Methods Course Flash Talk, Drexel University, 2/2/2021.

Baehr LA. "Looking to the Future" Exploring Aging with Spinal Cord Injury Pilot Study Update". AgeWell Collaboratory Cell2Society Research Meeting, Drexel University, 1/27/2021.

Baehr LA. "Looking to the Future" Exploring Aging with Spinal Cord Injury Pilot Study Update". Physical Therapy

and Rehabilitation Sciences Seminar, Drexel University, 1/27/201 (virtual)

Baehr LA. “Physical Activity and Quantitative Pain Measures: A Scoping Review”. Drexel University Emerging Graduate Scholars Conference, April 23, 2020, Philadelphia, PA.

Baehr LA. “Treatment considerations for chronic pain in spinal cord injury”. MossRehab Main Campus Outpatient Physical Therapy Inservice, May 1, 2019, Elkins Park, PA.

Baehr LA. “Student perceptions of community-based exercise for individuals with non-communicable diseases”. Temple University College of Public Health Research Day, April 5, 2019, Philadelphia, PA.

Baehr LA. “Student perceptions of community-based exercise for individuals with non-communicable diseases”. Temple University Doctor of Physical Therapy Evidence Based Practice Day, October 19, 2018, Philadelphia, PA.

Baehr, LA. “Dance for PD: why movement matters for Parkinson disease.” 13th Annual Jean Feldman Memorial Conference, November 6, 2015, Philadelphia, PA.

Baehr LA. “Modeling Musca behavior on a visual discrimination task.” Lehigh Valley Society for Neuroscience Research Conference, April 21, 2012, Allentown, PA.

Academic and Community-based Teaching Experience

- 2020-Present Adjunct Instructor, Health Sciences Undergraduate Program, Temple University, Philadelphia, PA
- *Teach multidisciplinary writing intensive course on biopsychosocial approach to compassionate clinical care for junior and senior health professions majors*
- 2021 Instructor, Doctor of Physical Therapy Program, Drexel University, Philadelphia, PA
- *Foster clinical reasoning skills with first year DPT students across acute and outpatient settings using small group discussion and simulated patient experience model.*
- 2020-2021 Telehealth Clinical Instructor, Doctor of Physical Therapy Program, Temple University, Philadelphia, PA
- *Provide clinical oversight to second year DPT students in Temple telehealth clinic Integrated Clinical Experience during COVID-19 pandemic.*
- 2020-Present Encore Program Teaching Artist, Art-Reach
- *Develop and instruct adapted dance sessions for Einstein Health Network and other Philadelphia-based partners serving individuals requiring accessible services.*
- 2019-Present Lab and Teaching Assistant, Doctor of Physical Therapy Program, Drexel University, Philadelphia, PA
- *Facilitate data collection and clinical discussion in Applied Biomechanics Lab: Dynamometry, EMG, Kinematics, Evidence-Based Practice*
 - *Guest lecture in Pathophysiology on Chronic Pain*
- 2018-Present Guest STEM Educator, College of Physicians Junior Fellows Program, Philadelphia, PA
- *Lead group classes on stress physiology to Philadelphia high school students interested in healthcare careers.*
- 2015-2016 Adjunct Professor, Dance and Theater Department, Eastern University, St. David's, PA
- *Lead Modern and Jazz Technique courses for undergraduate dance majors and minors, facilitated knowledge development in Dance History and Choreography through written assignments.*
- 2012-Present Dance for Parkinson's Disease Teacher, Philadelphia, PA
- *Develop and instructed community dance classes to individuals with Parkinson's Disease.*
 - *Appointments: 954 Dance Movement Collective, MossRehab Elkins Park.*

Professional Service

Journal Referee

2022-Present British Medical Journal (BMJ) Open

Community-based Teaching

- 2020-Present Seated Fitness Instructor, Pennsylvania Center for Adapted Sports, Philadelphia, PA
- *Teach weekly virtual class focused on mindfulness, stability, strength, and cardiovascular training for individuals with chronic mobility impairments including spinal cord injury, cerebral palsy, traumatic brain injury, and amputations.*

Pro Bono Physical Therapy

- 2019-2020 Physical Therapist, Sheller 11th Street Family Health Services, Philadelphia, PA
- *Provide pro-bono physical therapy services to individuals living in North Philadelphia. Collaborate and co-treat alongside art therapists for complex medical cases such as those living with chronic pain.*

Additional Activities

Online Publications

Baehr LA. "Chronic Pain: It's More than Mechanical. Shifting healthcare explanations from cause-based to mind body management". Curable. 2020. <https://www.curablehealth.com/blog/chronic-pain-more-than-mechanical>.

Baehr LA. "What's the Evidence for Compassion? The Art and Science of Physical Therapy". Covalent Careers, 2020. <https://eyesoneyecare.com/resources/whats-the-evidence-for-compassion-the-art-and-science-of-physical-therapy>.

Baehr LA. "Meaningful Movement Facilitates Functional Goals: The Benefits of Pilates Through a Physical Therapy Lens Following Total Hip Replacement". Pilates PT. 2019. <https://pilatespt.wixsite.com/home/single-post/2018/06/25/meaningful-movement-facilitates-functional-goals-the-benefits-of-the-pilates-through-a-ph>

Professional Membership

Member, Mixed Methods International Research Association, 2021-present

Member, American Physical Therapy Association, 2016-present

 Research/Orthopedics/Neurology/Health Policy Sections

 Qualitative Research Special Interest Group Post-Professional Student Researcher Liaison

 Disability Justice and Anti-Ableism Catalyst Group

Member, Pennsylvania Physical Therapy Association, 2016-present

Vice President, Doctor of Physical Therapy Student Association, Temple University, 2016-2019