SHASHWATI GEED, PT, PhD

Department of Physical Therapy and Movement Sciences
The University of Texas at El Paso
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EDUCATION

Dec 2014 **Ph.D. in Kinesiology** (Motor Control and Learning, Neuroscience)
University of Wisconsin – Madison, Madison, WI

Feb 2002 **Bachelor of Physical Therapy**, Devi Ahilya University, Indore India

LICENSURE

Licensed Physical Therapist

- Washington, DC – Active (License #PT210002558)
- Texas – Active (License #1407762)
- New Mexico – Active License (License # PT-2026-0260)

PROFESSIONAL EXPERIENCE

2023 – **Assistant Professor** (**Tenure-track)** Department of Physical Therapy and Movement Sciences
The University of Texas at El Paso, El Paso, TX

2023 – **Associate Faculty** Biomedical Engineering
The University of Texas at El Paso, El Paso, TX

2020 – 2023 **Research Assistant Professor** Department of Rehabilitation Medicine
Georgetown University Medical Center, Washington, DC

2020 – 2023 **Research Scientist**
MedStar National Rehabilitation Hospital, Washington, DC

Postdoctoral and research training

2018 – 2020 **Postdoctoral Fellow, National American Heart Association**
MedStar National Rehabilitation Hospital, Washington, DC
Mentor: Dr. Alexander W. Dromerick, MD

2017 – 2018 **TL1 Postdoctoral Fellow, NIH/NCATS**
Georgetown-Howard Universities Centers for Clinical and Translational Science
Mentors: Dr. Alexander W. Dromerick, MD; Dr. Peter S. Lum, PhD

2016 – 2017 **StrokeNet Postdoctoral Fellow, NIH/NINDS**
MedStar National Rehabilitation Hospital, Washington, DC
Mentors: Dr. Michelle L. Harris-Love, PT, PhD; Dr. Peter S. Lum, PhD; Alexander W. Dromerick, MD

2015 – 2016 **Advanced Rehabilitation Research Training Postdoctoral Fellow**
MedStar National Rehabilitation Hospital, Washington, DC
Mentors: Drs. Michelle L. Harris-Love, PT, PhD; Peter S. Lum, PhD

Early clinical and academic appointments

2006 – 2014 **Teaching and Research Assistant** Department of Kinesiology
University of Wisconsin – Madison

2002 – 2004 **Physical Therapist,** Bombay Hospital, Indore, India

RESEARCH AND SCHOLARLY ACTIVITIES

RESEARCH FUNDING

Currently Active

2025 – 2028 **NIDILRR Field Initiated Project 90IFST0026 Minority Serving Institutions**
Title: *Efficacy of tele-CPASS, a telerehabilitation intervention using Critical Periods After Stroke (CPASS), compared to in-person CPASS therapy for upper extremity motor recovery.*
Total Costs: $749,400
Role: Principal Investigator (PI)

2026 – 2028 **NIH/NIMHD P50MD019494** Research Pilot Project (Subaward)
Title: *Feasibility of a community-engaged Promotoras model of care to address neurorehabilitation health disparities following stroke in the Borderplex.*
Total Cost: $50,000
Role: Project Principal Investigator; (Center PI: Duarte-Gardea, Mangadu)

2025 –2028 **University of Texas Regents' Research Excellence Program (RREP)**
Title: *Trauma-Induced Neuroinflammatory Precursors of Maladaptive Neuroplasticity*.
Total Costs: $370,000
Role: Principal Investigator (Co-PI: Gurovich)
Description: Competitive University of Texas Regents' research award supporting establishment of a PI-initiated research direction in *neuroinflammation and maladaptive neuroplasticity*, including funding to recruit a Research Assistant Professor to expand laboratory and institutional research capacity.

2026 – 2027 **USASP-MAYDAY Clinical/Translational Research Award**
Title: Temporal Dynamics of Conditioned Pain Modulation: An EEG Investigation of Alpha Oscillations in Chronic Pain
Total Cost: $50,000
Role: Co-Investigator; (PI: Rana)

2025 – 2027 **Academy of Orthopaedic Physical Therapy**
Title: *Exploring Pain Modulation Mechanisms: A Study of TMS and Repeated Conditioned Pain Modulation.*

Total Cost: $30,000
Role: Co-Investigator (PI: Rana)

2024 – 2025 **Kringle Pharma** (Industry)
NCE, 2026 Title: *Myotome Conversion from Zero as a Primary Outcome of Neurorecovery in Spinal Cord Injuries*
Support: 25% Effort
Role: Co-Investigator (PI: Groah)

2023 – 2028 **Health Resources and Services Administration (HRSA)**
Title: *Improving Rural Enrollment, Access, and Healthcare in Rural Veterans (I-REACH).*
Direct Costs: $350,000
Role: Collaborator (PI: Umucu)

2019 – 2024 **NIDILRR Rehabilitation Research Training Center (RRTC)**
NCE, 2026 Title: *Health and Function for People with Physical Disabilities with Neurogenic Lower Urinary Tract Dysfunction*
Direct Costs: $3,835,202
Role: Statistician (20% effort across R1 and R3 projects; PI: Groah, Bregman)
Description: Provide trial design, outcomes development, database support, and statistical analyses for investigators at MedStar National Rehabilitation Hospital, Washington, DC, and at TIRR Memorial Hermann, Houston, TX.

Completed Grants

2024 – 2025 **Sobel-Duncan Border Health Research Award**
NCE, 2026 Title: *Closing the stroke recovery gap: Leveraging neuroplasticity to mitigate post-stroke health disparities in the Paso del Norte US-Mexico Border region.*
Total Costs: $40,000
Role: Principal Investigator

2024 – 2025 **RESTORE Center Pilot Project Grant (NICHD/Stanford University)**
NCE, 2026 Title: *Sit2Stand: Validity in Stroke and Aging Populations in the Clinic and At Home*
Total Costs: $30,000
Role: Co-PI (PI: Torriani-Pasin)

2020 – 2023 **NIH Career Development Award K12HD093427**
Neurorehabilitation and Restorative Neurosciences Training Network (PI: Bregman, Dromerick)
Title: Critical Period Plasticity Post Stroke.
Role: Project PI/K12 Scholar

2019 – 2023 **MedStar Health Research Institute - New Investigator Award**
Title: Identifying a biomarker for critical period plasticity post stroke.
Direct Costs: $25,000
Role: PI

2019 – 2023 **Charles and Mary Latham Foundation**
Title: Identify the genetic polymorphisms underlying neuroplasticity post stroke.
Direct Cost: $9,850
Role: PI

2018 – 2023 **NIDILRR Rehabilitation Engineering Research Center (RERC) 90REGE0004**
NCE (2024) *Title: Patient-Centered, Home-Based Technologies to Assess and Treat Motor Impairment in Individuals with Neurologic Injury.*
Direct Cost: $4,624,670
Role: Co-Investigator (Project R2)
Description: Machine learning algorithms to determine functional arm movements in stroke.

2017 – 2019 **American Heart Association – National Postdoctoral Fellowship**
Title: Shoulder and Hand Functional Improvement Post Stroke (SHIPS): Successful Recovery of Upper Extremity Motor Function.
Direct Cost: $102,550
Role: PI, postdoctoral fellowship

2016 – 2018 **Georgetown-Howard Universities Center for Clinical and Translational Science (GHUCCTS) TL1 Postdoctoral Fellowship**
Title: Shoulder and Hand Function Improvement Post Stroke.
Direct Cost: $132,072
Role: PI, postdoctoral fellowship

PUBLICATIONS

§ Denotes co-first authors, * Denotes corresponding author, Mentees are underlined.

Peer-Reviewed Publications

1. Aguirre Guemez AV, **Geed S**, Groah S. Myotome Conversion from Zero Reveals Recovery Beyond Pooled Motor Scores After Cervical Spinal Cord Injury: A Proof-of-Concept Analysis. Spinal Cord. **2026.** In press.
2. Qadri S, Andrade JRT, Culp S, Lee B, Umucu E, Lum PS, **Geed S***. Beyond grip strength: selective slowing of grip force release but not initiation dynamics in a go/no-go target force–matching task. Front. Aging Neurosci. **2026.** 18:1784018. https://doi.org/10.3389/fnagi.2026.1784018.
3. **Geed S***, Aguirre Guemez AV, Groah S. Predictors of Functional Outcomes After Cervical Spinal Cord Injury From the SCIMS Database: Roles of Segmental Motor Strength, Ethnicity, and Health Literacy. *Topics in Spinal Cord Injury Rehabilitation.* **2026**;32(Supplement1):1-13.
4. Umucu E, Jang J, **Geed S**, Kulkarni A, Lee B. Psychological Adjustment and Mental Health Among Those Seeking Pain Rehabilitation Treatment. Physical Medicine and Rehabilitation Clinics of North America. **2026**. ISSN 1047-9651. https://doi.org/10.1016/j.pmr.2026.08.009.
5. Lee YP, Davies P, Lee KL, **Geed S**, Schoeber G, Okori U, Hermida A, Solis E, Umucu E. The Pursuit of Happiness: Social Participation and Happiness among Minority Individuals with Multiple Sclerosis. *Multiple Sclerosis and Related Disorders***.** **2026**; 108:107077.
6. Hoque MA, Ehsan S, Choudhury A, Lum PS, Akbar M, **Geed S**, Hossain MS. Toward Sensor-to-Text Generation: Leveraging LLM-Based Video Annotations for Stroke Therapy Monitoring. *Bioengineering*. **2025**; 12(9):922. https://doi.org/10.3390/bioengineering12090922

7. Nieto, E.M.; Lujan, E.; Mendoza, C.A.; Arriaga, Y.; Fierro, C.; Tran, T.; Chang, L.-C.; Gurovich, A.N.; Lum, P.S.; **Geed, S.*** Accelerometry and the Capacity–Performance Gap: Case Series Report in Upper-Extremity Motor Impairment Assessment Post-Stroke. *Bioengineering* **2025**, *12*, 615.

8. **Geed, S*.** Towards measuring the desired neurorehabilitation outcomes directly with accelerometers and machine learning. *Developmental Medicine and Child Neurology*. DOI:10.1111/dmcn.15940. **2024.**

9. **Geed S*,** Grainger ML, Mitchell A, Anderson CC, Schmaulfuss HL, Culp SA, McCormick ER, McGarry MR, Delgado MN, Noccioli AD, Shelepov J, Dromerick AW, Lum PS. Concurrent Validity of Machine Learning-Classified Functional Upper Extremity Use from Accelerometry in Chronic Stroke. *Frontiers in Physiology*. **2023.** 14. doi: https://doi.org/10.3389/fphys.2023.1116878.

10. Barth J, **Geed S**, Mitchell A, Brady, KP, Giannetti, ML, Dromerick, AW, Edwards, DF. The Critical Period after Stroke Study (CPASS) Upper Extremity Treatment Protocol. *Archives of Rehabilitation Research and Clinical Translation.* **2023**:100282. https://doi.org/10.1016/j.arrct.2023.100282.

11. Edwardson MA, Brady K, Giannetti ML, Geed S, Barth J, Mitchell A, Tan MT, Zhou Y, Bregman BS, Newport EL, Edwards DF, Dromerick AW. Interpreting the CPASS Trial: Do Not Shift Motor Therapy to the Subacute Phase. *Neurorehabilitation and Neural Repair*. 2023 Jan;37(1):76-79. doi: 10.1177/15459683221143461. Epub **2022** Dec 28. PMID: 36575958.

12. Sequeira SB, Grainger ML, Mitchell AM, Anderson CC, **Geed S**, Lum PS, Giladi AM. Machine Learning Improves Functional Upper Extremity Use Capture in Distal Radius Fracture Patients. *Plastic Reconstructive Surgery Global Open.* **2022,** *10* (8), e4472.

13. § Dromerick AW, § **Geed S**, Barth J, Brady K, Giannetti ML, Mitchell A, Edwardson MA, Tan MT, Zhou Y, Newport EL, Edwards DF. Critical Period After Stroke Study (CPASS): A phase II clinical trial testing an optimal time for motor recovery after stroke in humans. *Proceedings of the National Academy of Sciences.* **2021**;118(39): e2026676118.

14. **Geed S**,* Grainger ML, Harris-Love ML, Lum PS, Dromerick AW. Shoulder position and handedness differentially affect excitability and intracortical inhibition of hand muscles. *Experimental Brain Research.* **2021**; 239(5):1517-1530.

15. **Geed S,*** Feit P, Edwards DF, Dromerick AW. Why are stroke rehabilitation trial recruitment rates in single digits? *Frontiers in Neurology.* **2021**. doi: 10.3389/fneur.2021.674237

16. **Geed S**,* Lane CJ, Nelsen MA, Wolf SL, Winstein CJ, Dromerick AW. Inaccurate Use of the Upper Extremity Fugl-Meyer Negatively Affects Upper Extremity Rehabilitation Trial Design: Findings From the ICARE Randomized Controlled Trial. *Archives of Physical Medicine and Rehabilitation.* **2021**; 102(2):270-279.

17. Barth J, **Geed S**, Mitchell A, Lum PS, Edwards DF, Dromerick AW. Characterizing upper extremity motor behavior in the first week after stroke. *PLOS ONE.* **2020**; 15(8): e0221668.

18. Lee SW, Vermillion BC, **Geed S**, Dromerick AW, Kamper DG. Impact of Targeted Assistance of Multiarticular Finger Musculotendons on the Coordination of Finger Muscles During Isometric Force Production. *IEEE Transactions on Neural Systems and Rehabilitation Engineering.* **2018**; 26(3): 619-28.

19. **Geed S**,* McCurdy ML, van Kan PL. Neuronal Correlates of Functional Coupling between Reach- and Grasp-Related Components of Muscle Activity. *Frontiers in Neural Circuits.* **2017**; 11(7): 7.

20. **Geed S**,* van Kan PLE. Grasp-Based Functional Coupling Between Reach- and Grasp-Related Components of Forelimb Muscle Activity. *Journal of Motor Behavior.* **2017**; 49(3): 312-28.

Manuscripts in Review

1. **Geed S*,** Aguirre-Guemez AV, Nakamura M, Maebashi K, Hayata A, Adachi K, Groah SL. Primary Motor Outcomes After Intrathecal KP-100IT (HGF) Therapy in Acute Cervical Spinal Cord Injury: A Myotome-Based Analysis of the Kringle Clinical Trial.
2. Groah SL, Aguirre-Guemez AV, **Geed S**. Myotome Conversion from Zero as a Neuroprognostic Marker in Acute Traumatic Spinal Cord Injury. Neurorehabilitation. Invited manuscript. Guest Editor: Zasler ND.
3. Brunfeldt A, DeMarco A, **Geed S**, Barth J, Brady K, Giannetti ML, Edwards DF, Edwardson MA. Corticospinal Tract Injury Shapes Early Motor Recovery Trajectories After Stroke: Insights from the CPASS and BIOREC Trials.
4. Groah SL, Aguirre-Guemez AV, **Geed S**. Disaggregating motor recovery after spinal cord injury: A case for adding myotome-level analysis to early-phase neurorecovery trials.
5. Shahim P, **Geed S**, van der Merwe A, Aziz-Sultan MA, Zetterberg H, Blennow K, Chan L, Edwardson MA. Temporal Trajectories and Clinical Correlates of BD-Tau, T-Tau, NfL, GFAP, and UCH-L1 After Ischemic Stroke.
6. Rahman M, **Geed S**, Nieto EM, Flores K, Montelongo M, Hernandez Rodriguez A, Moreno G, Montes CI, Hudson T, Pravinkumar NA, Akbar M, Hossain MS. From Wrist Movement to Therapy Dose: Utilizing Bilateral Accelerometry in Stroke Rehabilitation. Submitted to the *2nd Workshop on AI in Big Data Analytic for Healthcare*, in conjunction with the 2026 IEEE International Conference on Big Data (IEEE BigData 2026), Phoenix, AZ. October 2026.

INVITED TALKS

2023 *Age-related decline in grip force modulation: Contribution of the nonoscillatory EEG 1/f-like aperiodic signal.*
Physiological Neuroimaging Group (PiNG) at The Wellcome Centre for Integrative Neuroimaging and Medical Research Council (MRC) Brain Network Dynamics Unit (BNDU). Nuffield Department of Clinical Neuroscience. **The University of Oxford, UK**. Jul 28, 2023.

2023 *Between Acute and Chronic Rehabilitation: The Forgotten Subacute Period.*
Improvement in Motor Performance Post-Stroke Across the Care Pathway. **International Stroke Conference.** Dallas, TX. Feb 8, 2023.

2023 *Critical Period Neuroplasticity Early Post Stroke: Mechanism for Preferred Responsiveness to Therapy?*
Division of Biokinesiology and Physical Therapy at **The University of Southern California.** Neurorehabilitation Seminar. Jan 20, 2023.

2022 *Is there an optimal time or time sensitive window after stroke to enhance motor recovery*?
14th World Stroke Congress. Singapore. Oct 28, 2022.

2022 *Plasticity and Recovery Across the Translational Spectrum from Cellular and Molecular, Animal models and Human Clinical Trials.*
NIH K12 Neurorehabilitation and Restorative Neuroscience Symposium. Annual Meeting of the American Society of Neurorehabilitation. St. Louis, MO. Mar 30, 2022.

2022 *Stroke Recovery and Rehabilitation Over Time and* Place.
Annual Meeting of American Society of Neurorehabilitation. St. Louis, MO. Apr 2, 2022.

2022 *Measurement Across the Translational Spectrum. State-of-the-Art Advances and Discoveries in Neurogenic Lower Urinary Tract Dysfunction.*
Annual Meeting of American Spinal Injury Association, New Orleans, LA. May 17, 2022.

2021 *Critical Periods After Stroke Study: Translating Animal Experiments in Stroke Recovery to Human Clinical Trials*.

Department of Kinesiology, University of Wisconsin – Madison. Madison, WI. Mar 2021.

2015 *Reliability of Corticomotor Excitability in Proximal Upper Extremity Muscles of Severely Impaired Chronic Stroke Patients.*
Young Investigators' Symposium. American Congress of Rehabilitation Medicine. Dallas, TX. Oct 2015.

MEDIA COVERAGE

2026 *Telerehabilitation and Technology on the Border*. Border Health Horizons Podcast, KTEP.
https://www.ktep.org/podcast/border-health-horizons/2026-03-22/you-suffered-a-stroke-here-is-a-tablet

2021 *Critical Period Plasticity Post-Stroke*: Press releases by multiple science media avenues
EurekAlert!
BadgerHERALD
Altmetric

SELECTED CONFERENCE PRESENTATIONS

§authors contributed equally, *mentee*

Oral Presentations

1. **Geed S**, Williams MK, Pravinkumar N, Barth J, Brady K, McCloskey MG, Farrar-Edwards D. Dose Architecture of Upper Extremity Rehabilitation in the Critical Periods After Stroke Study (CPASS). *American Physical Therapy Association Combined Sections Meeting (APTA CSM)*. Philadelphia, PA. February 5, 2027. **Accepted platform presentation.**
2. Aguirre Guemez AV, **Geed S**, Groah SL. SCI and patient-specific factors predicting functional and neurological recovery among people with tetraplegia. Recovery of Neurological Function and Mobility Functional Recovery, ASIA Pre-course: Research from the SCI Model Systems: Understanding Spinal Cord Injury from Cell to Community. American Spinal Injury Association (ASIA) Meeting. San Antonio, TX. April **2026**.
3. Groah SL, Aguirre Guemez AV, **Geed S**. Myotome Conversion from Zero as a Primary Outcome of Neurorecovery. Session 5: Recovery of Neurological Function and Mobility Functional Recovery, ASIA Pre-course: Research from the SCI Model Systems: Understanding Spinal Cord Injury from Cell to Community. American Spinal Injury Association (ASIA) Meeting. San Antonio, TX. April **2026**.
4. Barth J, **Geed S**, Jacobs H, Newport E, Edwards D. CPASS upper extremity therapy improves patient-reported outcomes after stroke. International Stroke Conference (ISC) 2026, American Heart Association. New Orleans, LA. February 4–6, **2026**.
5. **Geed S**, Barth J, Brady K, Giannetti M, Mitchell A, Edwardson MA, Wu T, Tan MT, Newport EL, Edwards DF, Dromerick AW. (2022). Effect of Neurorehabilitation Timing on Stroke Impact Scale Domains of Recovery: The Critical Periods After Stroke Study (CPASS) Randomized Clinical Trial. 12th World Congress for Neurorehabilitation. Dec 14-17, **2022**. Vienna, Austria.

Poster Presentations

1. Montelongo M, Nieto EM, Hernandez Rodriguez A, Torres Andrade JR, Piriyawat P, **Geed S**. Sham-Controlled Transcranial Alternating Current Stimulation Effects on Grip-Release Initiation in Chronic Stroke and Healthy Adults. *APTA Combined Sections Meeting*. Philadelphia, PA. February 6, 2027. **Accepted poster.**
2. Nieto EM, Chauvet M, Melendez A, Hernandez Rodriguez A, Hinojos G, Montelongo M, **Geed S**, Gurovich AN. Exercise Priming Mechanisms: Concentric and Eccentric Cycling Differentially Modulate Motor-Cortical Physiology. *APTA Combined Sections Meeting*. Philadelphia, PA. February 6, 2027. **Accepted poster.**
3. Flores K, Pravinkumar N, Lara RG, Montelongo M, Hernandez Rodriguez A, Nieto EM, Hossain MS, Akbar M, Piriyawat P, **Geed S**. Reliable Classification of Upper-Extremity Therapy Content: A Ground-Truth Reference for Accelerometry-Based Dose Measurement Post-Stroke. *APTA Combined Sections Meeting*. Philadelphia, PA. February 6, 2027. **Accepted poster.**

4. Aguirre Guemez AV, **Geed S**, Ljungberg IH, Groah SL. Myotome Conversion from Zero Reveals Recovery Beyond Pooled Motor Scores After Cervical Spinal Cord Injury: A Proof-of-Concept Analysis. American Spinal Injury Association (ASIA) Meeting. San Antonio, TX. April 2026.
   Mulcahey Award for the best abstract in the field of outcomes measurement (or outcomes research) in spinal cord injury rehabilitation at 2026 ASIA Annual Meeting.
5. Shamim Pashtun, **Geed S**, Vander Merwe A, Chan L, Edwardson MA. Plasma Brain-Derived Tau as a Prognostic Biomarker in Ischemic Stroke Recovery. Annual Meeting of the American Society of Neurorehabilitation. Los Angeles. March 2026.
6. §Nieto EM, §Mendoza CA, §Arriaga Y, Flores K, Montelongo M, Hernandez AR, Lum PS, **Geed S**. Wrist-Worn Accelerometry Reveals Capacity–Performance Gaps in Real-World Hand Use Post-Stroke: Implications for Neurorehabilitation Trial Outcomes. Annual Meeting of the American Society of Neurorehabilitation. Los Angeles. March 2026.
7. Torres-Andrade RJ, Qadri S, Gurovich A, Edwardson M, **Geed S**. Stroke Lesion Morphology Influences tDCS Electric-Field Estimates: A Lesion-Accurate Modeling Pipeline and Study. Annual Meeting of the American Society of Neurorehabilitation. Los Angeles. March 2026.
8. Qadri S, Torres-Andrade RJ, Culp S, Lee B, Lum PS, **Geed S**. Aging and the Art of Letting Go: Selective Slowing of Grip-Force Release in a Go/No-go Force Matching Task. Annual Meeting of the American Society of Neurorehabilitation. Los Angeles. March 2026.
9. §Mendoza CA, §Arriaga Y, Nieto E, Edaena L, Fierro C, **Geed S**. (2025). *Accelerometry and the Capacity–Performance Gap: Case Series Report in Upper-Extremity Motor Impairment Assessment Post-Stroke***.** Campus Office of Undergraduate Research and Innovation (COURI). Summer symposium, The University of Texas at El Paso.
   This poster was awarded "Best in category, Life Sciences" at UTEP.
10. Nieto EM, Gomez M, Alva SD, DeLucio J, Saenz D, Maldonado SR, Gurovich AN, **Geed S.** (2025). Influence of Exercise-induced Blood Lactate on Neuroplasticity in Typically Aging Older Adults. Campus Office of Undergraduate Research and Innovation (COURI). Summer symposium, The University of Texas at El Paso.
11. §Mendoza CA, §Lujan E, Nieto E, Solis FM, Fierro C, **Geed S**. (2024). Feasibility of tele-CPASS, a telerehabilitation intervention to improve motor function recovery after stroke. Campus Office of Undergraduate Research and Innovation (COURI). Summer symposium, The University of Texas at El Paso.
    This poster was awarded "Best in category, Engineering, Computational, and Applied Sciences" at UTEP.
12. Aguirre-Guemez AV, **Geed S,** Bregman BS, Ljungberg IH, Groah S. (2024). Health disparities in SCI and patient-specific factors predicting function outcomes at 12 months: Results from the SCI Model Systems Dataset. Annual Meeting of the American Spinal Injury Association. Scottsdale, AZ.
13. Aguirre Guemez AV, Geed S, Ljungberg IH, Groah SL. Factors predicting functional and neurological recovery among people with tetraplegia: results from the SCI Model Systems. Poster presentation at American Spinal Injury Association (ASIA) Meeting. Scottsdale, AZ. June 2025.
14. Qadri S, Culp SA, Grainger ML, Lum PS, **Geed S**. (2024). Distinct Influence of Beta- and Gamma-tACS on Grip Force Regulation in Chronic Stroke. American Society for Neurorehabilitation. San Antonio, TX.
15. Qadri S, Culp SA, Grainger ML, Lum PS, **Geed S**. (2024). Distinct Influence of Beta- and Gamma-tACS on Grip Force Regulation in Healthy Older Adults. International Neuromodulation Society. Vancouver, Canada.
16. **Geed S**, Culp SA, Miyakoshi MM, Lum PS. (2023). Cortical excitation-inhibition dynamics during critical period neuroplasticity in subacute stroke. Inhibition in the CNS Gordon Research Conference. Assembly and Function of Inhibitory Neurons in Health and Disease. Les Diablerets, VD, Switzerland.
17. Qadri, S, Miyakoshi MM, Lum PS, **Geed, S**. (2022) EEG Correlates of Motor Function Recovery During the Critical Period Window Post Stroke. MedStar Health-Georgetown University Research Symposium, Washington, DC.
    This poster was awarded "First place, Medical residents and Fellows" category by the Symposium Scientific Review Committee.
18. Ngo TTH, Miyakoshi MM, **Geed, S**, Lum PS. (2022). EEG Correlates of Age-Related Decline in Grip Force Control. MedStar Health-Georgetown University Research Symposium, Washington, DC.
19. **Geed S,** Lum PS, Grainger ML, Medvedev AV, Dromerick, AW. (2021). Role of inhibitory interneurons in grip force modulation in aging. Central Nervous System Injury and Repair Gordon Research Conference. Jordan Hotel at Sunday River in Newry, ME.

20. **Geed S**, Harris-Love M, Grainger ML, Ganesh H, Edwardson MA, Lum PS, Dromerick AW. (2021) Shoulder position and lesion location differentially affect hand muscle excitability and intracortical inhibition early post-stroke. International Brain Stimulation Conference, Charlottesville, SC.
21. **Geed S,** Lum PS, Medvedev AV, Dromerick AW. (2021). Role of cortical inhibitory interneurons in motor recovery after stroke. MedStar Health-Georgetown University Research Symposium, Washington, DC.
22. Mitchell AM, Barth J, Brady KP, Giannetti ML, **Geed S**, Dromerick AW, Edwards DF. (2021). Quantifying Upper Extremity Stroke Rehabilitation: A description of movement counts during a standardized, individualized, progressive upper extremity (UE) motor training program. World Federation of Occupational Therapy, Paris, France.
23. Barth J, Brady KP, Mitchell AM, **Geed S**, Dromerick AW, Edwards DF, Giannetti ML. (2021). Optimizing Upper Extremity Stroke Rehabilitation: Intervention principles, feasibility, and adherence to a standardized, individualized, progressive upper extremity (UE) motor training program. World Federation of Occupational Therapy, Paris, France.
24. **Geed S,** Nowshin F, Chalamgari A, Barth J, Harris-Love ML, Lum PS, Dromerick AW. (2018). Changes in corticomotor excitability associated with successful recovery of upper extremity function post stroke. American Society of Neurorehabilitation, San Diego, CA.
25. **Geed S**, Cahn MD, Thrasher SK, Chalamgari A, Barth JB, Harris-Love ML, Lum PS, Dromerick AW. (2017). SHIPS: Studying successful upper extremity motor recovery post stroke. American Society of Neurorehabilitation, Washington, DC.
26. Barth JB, **Geed S**, Lum PS, Edwards DF, Dromerick AW. (2017). Post-stroke motor behavior before influence of therapy: the AAHA study. American Society of Neurorehabilitation, Washington, DC.
27. Edwards DF, Barth JB, **Geed S**, Brady K, Giannetti M, Dromerick AW. (2017). Patient preferences for upper extremity rehabilitation treatment: The CPASS Study. Congress of Neurorehabilitation and Neural Repair. Maastricht, The Netherlands.
28. Dromerick AW, **Geed S**, Edwardson MA, Giannetti ML, Barth J, Brady K, Ming T Tan MT, Fiandaca MA, Federoff HJ, Newport EL, Edwards DF. (2017). Blinded interim analysis from the Critical Periods After Stroke Study CPASS – trends in upper extremity recovery of patients randomized within 30-days of stroke onset. Congress of Neurorehabilitation and Neural Repair. Maastricht, The Netherlands. Platform presentation.
29. **Geed S**, Lum PS, Harris-Love ML, Barth J, Turkeltaub PE, Dromerick AW. (2017). Successful recovery of hand function after stroke. B178. Translational Science 2017, Association for Clinical and Translational Science annual meeting. Washington, DC.

    This poster was awarded the top score (Blue Ribbon Poster Award) by the Symposium Scientific Review Committee.
30. Dromerick AW, Edwards DF, Edwardson MA, Giannetti ML, Barth J, Brady KP, Wilson CP, Chan E, **Geed S**, Tan MT, Fiandaca MS, Federoff HJ, Newport EL. (2017). Critical Periods After Stroke Study (CPASS). Ongoing clinical trials. International Stroke Conference. Houston, TX.
31. **Geed S**, Giannetti ML, Barth J, Brady KP, Wilson CP, Edwards DF, Dromerick AW. (2016). Paging Dr. Lasagna: Why Early Inpatient Rehab Trial Recruitment Rate is in Single Digits. International Stroke Conference 2017.
32. **Geed S**, Nelsen M, Lane C, Winstein C, Wolf SL, Dromerick AW. (2017). Recovering upper extremity movement synergies post stroke. Sixth Annual MedStar Health Research Symposium. Washington, DC.
33. Dromerick AW, Edwards DF, Edwardson MA, Giannetti ML, Barth J, Brady KP, Wilson CP, Chan E, **Geed S**, Tan MT, Fiandaca MS, Federoff HJ, Newport EL. (2017). Critical Periods After Stroke Study (CPASS). Sixth Annual MedStar Health Research Symposium. Washington, DC. Poster.
34. **Geed S**, Nelsen M, Lane C, Winstein C, Wolf SL, Dromerick AW. (2016). Rasch analysis of the UE Fugl-Meyer in the ICARE Stroke trial: Effects of rescaling on clinical assessment and measurement of recovering motor control. American Society of Neurorehabilitation; San Diego, CA.
35. **Geed S**, Silva, GG, Rodrigues MD, & Kukke SN. (2016). Abstract WP148: Tactile-enhanced Motor Practice Improves Manual Dexterity Over Visually Guided Practice. *Stroke, 47*(Suppl 1), AWP148.
36. Harrington, R, Chan, E, **Geed, S**, Wutzke, CJ, & Harris-Love, M. (2015). Roles of Lesion Volume and Lesion Location in Post-Stroke Arm Impairment. *Arch Phys Med Rehabil, 96*(12), e16.
37. **Geed, S**, Chan, E., Harris-Love, M., & Harris-Love, M. (2015). Reliability of Corticomotor Excitability in Proximal Upper-Extremity Muscles of Severely Impaired Chronic Stroke Patients. *Arch Phys Med Rehabil, 96*(10), e6. doi: http://dx.doi.org/10.1016/j.apmr.2015.08.014.

38. Edwardson MA, **Geed S**, Cheema A, Tan M, Bregman B, Dromerick AW. Biomarkers of stroke recovery study (BIOREC) methodology. American Society of Neurorehabilitation; (2015); Chicago, IL.
39. **Geed, S**, McCurdy, ML, and Van Kan, P. L. E. (2013). Contribution of Interposito-rubrospinal Pathway to Muscle Synergies Underlying Reaching to Grasp. Soc. Neurosci Abstr 39, Program No. 650.13. San Diego, CA.
40. **Geed, S**, McCurdy, ML, and Van Kan, P. L. E. (2011). Primate magnocellular red nucleus (RNm) encodes muscle synergies during reaching to grasp. Soc. Neurosci Abstr 37, Program No. 82. Washington, D.C.
41. **Geed, S**, McCurdy, ML, and Van Kan, P. L. E. (2010). Relative importance of intended hand use versus target location for muscle synergies that transport the hand during reaching to grasp. Soc. Neurosci Abstr 36, Program No. 492. San Diego, CA.

HONORS AND AWARDS

2026	*Research & Innovation, Rising Researcher Award – Health & Social Sciences*, The University of Texas at El Paso *The award recognizes faculty demonstrating exceptional early-career accomplishments and potential for future advancement and recognition in research, scholarship, and creative activities.*
2024	Sobel-Duncan Border Health Research Award, The University of Texas at El Paso
2023	NIH Jumpstart grant-writing mentorship program, Office of Research and Sponsored Programs, The University of Texas at El Paso
2022 – 2023	Advanced Learning Fellow, Reproducible Rehabilitation Research (*ReproRehab*)
2022	Training in Grantsmanship for Research (TIGRR) grant-writing workshop
2017	Top Scoring Poster Award MedStar Health Research Symposium, Washington, DC
2017	Top Scoring Poster Award, Association for Clinical and Translational Science, Washington, DC
2013 – 2014	Mary R McKee Scholarship, University of Wisconsin – Madison
2011 – 2012	Genevieve Brown Wright Fellowship, University of Wisconsin – Madison
2009 – 2011	Marie L. Carns Fellowship, University of Wisconsin – Madison
2008 – 2009	Ruth Glassow Memorial Scholarship, University of Wisconsin – Madison
2007 – 2008	Genevieve Brown Wright Scholarship, University of Wisconsin – Madison
2006 – 2007	Blanche M. Trilling Fellowship, University of Wisconsin – Madison
2002	Alka Verma Memorial Award, Indian Association of Physiotherapy

Training Fellowships and Travel Awards

2014	University of Wisconsin – Madison Travel Award to attend Society for Neuroscience Annual Meeting
2013	Vilas Conference Presentation Travel Award, University of Wisconsin – Madison
2011	Vilas Conference Presentation Travel Award, University of Wisconsin – Madison
2011	University of Wisconsin – Madison Travel Award to attend Society for Neuroscience Annual Meeting

TEACHING EXPERIENCE

Courses taught as Faculty or Course coordinator

Spring 2024 – 2026	**Neuroscience DRSC 6390** Role: Course coordinator; Instructor, The University of Texas at El Paso
Fall 2023 - 2026	**Neuromuscular rehabilitation I PT 6314**

	Role: Instructor, The University of Texas at El Paso (UTEP)
Fall 2024	**Advanced Exercise Prescription PT 6213**
	Role: Instructor, The University of Texas at El Paso
Spring 2024, 2025	**Neuromuscular rehabilitation II PT 6414**
	Role: Instructor, The University of Texas at El Paso
Fall 2023 – Present	**PT Capstone Project I, II**
	Role: Instructor, The University of Texas at El Paso (UTEP)
2018 – 2020	**Motor control and Learning**, 1 lecture
	Role: Instructor
	Neuroscience Core II, Interdisciplinary Program in Neuroscience, Georgetown University
2012	**Research Methods in Kinesiology 3-credit course**
	Role: Instructor and Course Coordinator
	Department of Kinesiology, University of Wisconsin – Madison

Courses taught as a TA at the University of Wisconsin – Madison

2013 – 2014	Socio-cultural Aspects of Physical Activity
2010 – 2013	Theoretical Foundations of Occupation-based Practice
	Role: Teaching Assistant, deliver 1 lecture on "*Culturally sensitive practice in Occupational Therapy*"
2010 – 2013	Scientific Inquiry in Occupational Therapy
	Role: Teaching Assistant, deliver some lectures on research methods and statistics in Occupational Therapy
2010 – 2013	Scientific Writing in Occupational Therapy
	Role: Teaching Assistant, lead some lectures on scientific writing in Occupational Therapy
2010 – 2012	Assistive Technology in Occupational Therapy Practice
2009 – 2013	Community-based Occupational Therapy Practice
2006 – 2013	Neural Control of Movement
2007 – 2009	Motor Development Across the Lifespan
2007 – 2009	Motor Learning and Performance
2009 – 2010	Adolescent and Young Adult Occupational Therapeutic Interventions

MENTORSHIP

Faculty or Post-professional Mentees

2024 – 2025	Ebelechukwu Nwafor, PhD; NIH AIM AHEAD Assistant Professor of Computing Sciences Villanova University
2024 – 2025	Charlotte E. Joslin, OD, PhD; NIH AIM AHEAD Director, Contact Lens Service Co-Director, UIC K12 Independent Clinician Vision Scientist Program Professor of Ophthalmology, Dept. of Ophthalmology and Visual Science Departmental Affiliate, Division of Epidemiology and Biostatistics University of Illinois at Chicago
2022 – 2025	Syed Qadri, MD; Rehabilitation Medicine Scientist Training Program from Association of Academic Physiatrists. MedStar National Rehabilitation Hospital, Washington, DC.

Graduate Students

PhD Students

2025 – Present

Jose Roberto Torres Andrade. (Primary co-mentors: Geed/Gurovich).
Interdisciplinary Health Sciences PhD Program, College of Health Sciences, The University of Texas at El Paso.

Student Outcomes:

Externally Funded Grants:

- *SECIHTI Postgraduate Scholarship in Science and Humanities Abroad (Beca SECIHTI Tipo 1), Secretaría de Ciencia, Humanidades, Tecnología e Innovación, Government of Mexico, 2026–2030.* $1,250/month stipend + up to $10,000/year tuition + health insurance.

Peer-reviewed Manuscripts:

- Qadri S, **Andrade JRT**, Culp S, Lee B, Umucu E, Lum PS, **Geed S***. Beyond grip strength: selective slowing of grip force release but not initiation dynamics in a go/no-go target force–matching task. Front. Aging Neurosci. **2026.** 18:1784018. doi: 10.3389/fnagi.2026.1784018.

Peer-reviewed abstracts:

- **Torres-Andrade RJ**, Qadri S, Gurovich A, Edwardson M, **Geed S**. Stroke Lesion Morphology Influences tDCS Electric-Field Estimates: A Lesion-Accurate Modeling Pipeline and Study. Annual Meeting of the American Society of Neurorehabilitation. Los Angeles. March 2026.
- Qadri S, **Torres-Andrade RJ**, Culp S, Lee B, Lum PS, **Geed S**. Aging and the Art of Letting Go: Selective Slowing of Grip-Force Release in a Go/No-go Force Matching Task. Annual Meeting of the American Society of Neurorehabilitation. Los Angeles. March 2026.

2025 – Present

Naguia Leticia De Medeiros. PhD Dissertation Committee, Interdisciplinary Health Sciences PhD Program, College of Health Sciences, The University of Texas at El Paso.

2025 – Present

Manuel Gomez. PhD Dissertation Committee, Interdisciplinary Health Sciences PhD Program, College of Health Sciences, The University of Texas at El Paso.

2023 – 2025

Qiaohui Zhou. PhD Dissertation Committee, Department of Biostatistics, Bioinformatics, and Biomathematics Georgetown University Medical Center.

Master's Students

2026 – Present

David Parish. Master's Thesis Committee, Department of Kinesiology, College of Health Sciences. University of Texas at El Paso.

DPT Capstone Students

2024 – Present

Estevan Nieto, DPT Student (2026 – Present); former undergraduate research trainee (2024 – 2026). The University of Texas at El Paso.

Student Outcomes:

Awards, Honors, Scholarships:

- 2026, Recipient of six UTEP endowed scholarships totaling **$4,350/semester**, including the Elayne and Julian Bernat Endowed Presidential Scholarship and Caleb Maxwell Endowed Memorial Scholarship in Allied Health.
- Received early admission to UTEP's DPT program and the University of North Texas DPT program. Currently UTEP DPT student, class of 2029.
- Selected Undergraduate Marshal of Students, College of Health Sciences, Class of 2025 -- the highest honor awarded to a single graduating student in the College for outstanding academic performance, research engagement, leadership, and service.

Peer-reviewed Manuscripts:

- Nieto, E.M.; Lujan, E.; Mendoza, C.A.; Arriaga, Y.; Fierro, C.; Tran, T.; Chang, L.-C.; Gurovich, A.N.; Lum, P.S.; **Geed, S.*** Accelerometry and the Capacity–Performance Gap: Case Series Report in Upper-Extremity Motor Impairment Assessment Post-Stroke. *Bioengineering* **2025**, *12*, 615.

Abstracts:

- §Nieto EM, §Mendoza CA, §Arriaga Y, Flores K, Montelongo M, Hernandez AR, Lum PS, **Geed S**. Wrist-Worn Accelerometry Reveals Capacity–Performance Gaps in Real-World Hand Use Post-Stroke: Implications for Neurorehabilitation Trial Outcomes. Annual Meeting of the American Society of Neurorehabilitation. Los Angeles. March 2026.
- Nieto EM, Gomez M, Alva SD, DeLucio J, Saenz D, Maldonado SR, Gurovich AN, **Geed S.** (2025). Influence of Exercise-induced Blood Lactate on Neuroplasticity in Typically Aging Older Adults. Campus Office of Undergraduate Research and Innovation (COURI). Summer symposium, The University of Texas at El Paso.
- §Mendoza CA, §Lujan E, Nieto E, Solis FM, Fierro C, **Geed S**.* (2024). Feasibility of tele-CPASS, a telerehabilitation intervention to improve motor function recovery after stroke. Campus Office of Undergraduate Research and Innovation (COURI). Summer symposium, The University of Texas at El Paso.

2024 – Present Mary K Williams, Angelica Garcia, Luis Verduzco, Daniel Tarin, Marocs Muñoz (primary).

2023 – Present Jasmin Loya (primary).

Awards, Honors, Scholarships:

- *"Best Capstone Poster, DPT Class of 2026"*
- *"Outstanding Capstone Research, DPT Class of 2026"*

Medical Students

2026 – Present Hien Dat Nguyen, Texas Tech University Health Sciences Center of El Paso.

2017 Matthew D Cahn, Georgetown University School of Medicine.
Outcomes:

- Geed S, Cahn MD, Thrasher SK, Chalamgari A, Barth JB, Harris-Love ML, Lum PS, Dromerick AW. (2017). SHIPS: Studying successful upper extremity motor recovery post stroke. American Society of Neurorehabilitation, Washington, DC

2016 (Summer) Jocelyn Lu, Georgetown University School of Medicine
Outcomes:

- Awarded the Dean's summer research scholarship.

Undergraduate Students

2025 – Present

Mia Montelongo. Bachelors in Rehabilitation Sciences, College of Health Sciences. The University of Texas at El Paso.
Student Outcomes:

Awards, Honors, Scholarships:

- 2026, Awarded the UTEP Campus Office of Undergraduate Research Initiatives (COURI) SURPASS scholarship that supports highly motivated faculty-student teams for 10 weeks of multidisciplinary, hands-on research.
- 2025, Awarded the UTEP BUILDing SCHOLARS research funding. A research-intensive training program, funded by UTEP and reserved for students with a strong motivation to become researchers in biomedical, social, behavioral, or health sciences, and/or biomedical engineering. Areas of emphasis include addiction, cancer, environmental health, health disparities, infectious diseases, neurodegenerative and chronic diseases and translational biomedicine.

2025 – Present

Rosario Lara. Bachelor of Computer Science. College of Engineering.

2025 – Present

Kenya Flores. Bachelors in Rehabilitation Sciences. College of Health Sciences. The University of Texas at El Paso.

2025 – Present

Alejandra Hernandez Rodriguez. Bachelors in Rehabilitation Sciences. College of Health Sciences. University of Texas at El Paso.

2024 – Present

Yazbel Delgado. Bachelors in Rehabilitation Sciences, College of Health Sciences, The University of Texas at El Paso.
Student Outcomes:

- Admitted to UTEP's Occupational Therapy (OTD) program.
- §Nieto EM, §Mendoza CA, §Arriaga Y, Flores K, Montelongo M, Hernandez AR, Lum PS, **Geed S**. Wrist-Worn Accelerometry Reveals Capacity–Performance Gaps in Real-World Hand Use Post-Stroke: Implications for Neurorehabilitation Trial Outcomes. Annual Meeting of the American Society of Neurorehabilitation. Los Angeles. March 2026.
- Mendoza CA, Arriaga Y, Nieto E, Edaena L, Fierro C, **Geed S**. (2025). *Accelerometry and the Capacity–Performance Gap: Case Series Report in Upper-Extremity Motor Impairment Assessment Post-Stroke***.** Campus Office of Undergraduate Research and Innovation (COURI). Summer symposium, The University of Texas at El Paso.

2024 – Present

Crystal A Mendoza, Bachelors in Rehabilitation Sciences, The University of Texas at El Paso.

Student Outcomes:

- Accepted to Speech Language and Hearing Sciences – Speech Language Pathology Program, University of Texas at Austin for Fall 2026. **Awarded competitive graduate fellowship for the program duration.*
- Outstanding Seniors – Top Ten in the College of Health Sciences, Class of 2026, UTEP.
- §Nieto EM, §Mendoza CA, §Arriaga Y, Flores K, Montelongo M, Hernandez AR, Lum PS, **Geed S**. Wrist-Worn Accelerometry Reveals Capacity–Performance Gaps in Real-World Hand Use Post-Stroke: Implications for Neurorehabilitation Trial Outcomes. Annual Meeting of the American Society of Neurorehabilitation. Los Angeles. March 2026.
- §Mendoza CA, §Arriaga Y, Nieto E, Edaena L, Fierro C, **Geed S**. (2025). *Accelerometry and the Capacity–Performance Gap: Case Series Report in Upper-Extremity Motor Impairment*

*Assessment Post-Stroke***.** Campus Office of Undergraduate Research and Innovation (COURI). Summer symposium, The University of Texas at El Paso. **Awarded "Best in category, Life Sciences" at the 2025 UTEP-wide COURI summer symposium.*

- §Mendoza CA, §Lujan E, Nieto E, Solis FM, Fierro C, **Geed S**. (2024). *Feasibility of tele-CPASS, a telerehabilitation intervention to improve motor function recovery after stroke.* Campus Office of Undergraduate Research and Innovation (COURI). Summer symposium, The University of Texas at El Paso. **Awarded "Best in category, Engineering, Computational, and Applied Sciences" at the 2024 UTEP-wide COURI summer symposium.*

2024 – 2025 Edaena Lujan, Sophomore Bachelors in Rehabilitation Sciences, The University of Texas at El Paso.
Student Outcomes:

- §Mendoza CA, §Lujan E, Nieto E, Solis FM, Fierro C, **Geed S**. Feasibility of tele-CPASS, a telerehabilitation intervention to improve motor function recovery after stroke. Campus Office of Undergraduate Research and Innovation (COURI). Summer symposium, The University of Texas at El Paso.

2022 – 2023 Ha Ngo, Senior, Computer Science, School of Engineering, The Catholic University of America, Washington, DC
Student Outcomes:

- Ngo HTT, Miyakoshi MM, Lum PS, **Geed, S**. (2022). EEG Correlates of Age-related decline in grip force control. MedStar Health-Georgetown University Research Symposium, Washington, DC.

2016 – 2018 Farhanaz Nowshin, Department of Psychology at The Catholic University of America, Washington, DC
Student Outcomes:

- Geed S, Nowshin F, Chalamgari A, Barth J, Harris-Love ML, Lum PS, Dromerick AW. (2018). Changes in corticomotor excitability associated with successful recovery of upper extremity function post stroke. American Society of Neurorehabilitation, San Diego, CA.

2018 – 2020 Mai Bui, Junior, Department of Biomedical Engineering, The Catholic University of America, Washington, DC
Currently: Software Engineer, Microsoft

2015 (summer) Maira D Rodrigues, Occupational Therapy Candidate Universidad Federal de Pernambuco, Recife, Brazil.
Student Outcomes:

- Geed S, Silva, GG, Rodrigues MD, & Kukke SN. (2016). Abstract WP148: Tactile-enhanced Motor Practice Improves Manual Dexterity Over Visually Guided Practice. *Stroke, 47* (Suppl 1), AWP148.

2015 (summer) Gabriela Gil Silva Barbosa, Physical Therapy Candidate, Universidad Federal de Alfenas, Alfenas, Brazil
Student Outcomes:

- Geed S, Silva, GG, Rodrigues MD, & Kukke SN. (2016). Abstract WP148: Tactile-enhanced Motor Practice Improves Manual Dexterity Over Visually Guided Practice. *Stroke, 47* (Suppl 1), AWP148.

High School Students

2020 – 2021 Harrish Ganesh, Thomas Jefferson High School of Science and Technology, Alexandria, VA.
Student Outcomes:

- Shoulder position and lesion location differentially affect hand muscle excitability and intracortical inhibition early post-stroke. Geed S, Harris-Love M, Grainger ML, **Ganesh H**, Edwardson MA, Lum PS, Dromerick AW. International Brain Stimulation Conference, Charlottesville, SC. 2020.
- Accepted to the guaranteed medical program at Virginia Commonwealth University, Richmond with full funding.

2016 – 2019 Anjalika Chalamgari, Thomas Jefferson High School of Science and Technology, Alexandria, VA.

Student Outcomes:

- Geed S, Cahn MD, Thrasher SK, **Chalamgari A**, Barth JB, Harris-Love ML, Lum PS, Dromerick AW. (2017). SHIPS: Studying successful upper extremity motor recovery post stroke. American Society of Neurorehabilitation, Washington, DC
- Geed S, Nowshin F, **Chalamgari A**, Barth J, Harris-Love ML, Lum PS, Dromerick AW. (2018). Changes in corticomotor excitability associated with successful recovery of upper extremity function post stroke. American Society of Neurorehabilitation, San Diego, CA.
- Accepted to University of Pittsburgh under guaranteed admissions program to University of Pittsburgh Medical School.

PROFESSIONAL SERVICE AND ACTIVITIES

JOURNAL EDITORIAL BOARDS, REVIEWING

Editorial Boards

2026 – Present Associate Editor, NeuroEngineering and Rehabilitation

2025 – Present Scientific Reports

2021 – Present Topics in Spinal Cord Injury Rehabilitation

Guest Editor

2026 Bioengineering. Special Issue: *Advances in Physical Therapy and Rehabilitation*, 2nd Edition. (Co-editor with Dr. Gurovich AN).

2026 International Journal of Environmental Research and Public Health. Special Issue: The Neural Exposome Determinants of Health Across the Lifespan. (Co-editor with Dr. Umucu E; Kulkarni A).

Ad Hoc Journal Reviewer

Neurorehabilitation and Neural Repair, Experimental Brain Research, Journal of Neurophysiology, BMC Neurology, Topics in Spinal Cord Injury Rehabilitation, Translational Stroke Research, Frontiers in Human Neuroscience, Archives of Physiotherapy, Sensors, Bioengineering.

Grant Review Panels

2026 **Federal Advisory Committee member**, Department of Veterans Affairs Rehabilitation Research and Development Scientific Merit Review Board Subcommittee on Musculoskeletal Health & Function.

2026 **NSF-NIH** Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science (SCH) AI-Brain Panel (P260974), April 13-14.

2026 **NSF-NIH** Smart Health and Biomedical Research in the Era of Artificial Intelligence and Advanced Data Science (SCH) Robotics Panel (P260961), March 17-18.

2024-2026 **Department of Veterans Affairs** Office of Rehabilitation Research and Development Subcommittee on

Musculoskeletal Health & Function (RRD2), **MERIT** grants, *ad hoc*

2024 **NIH** Study section, Acute Neural Injury and Epilepsy (**ANIE**)

2023 **Department of Veterans Affairs** Office of Rehabilitation Research and Development, **SPiRE** (*Special Projects in Rehabilitation Excellence*), *ad hoc*

2021, 2022 Swiss National Science Foundation

Service to the University, College, and Department

University Service

2024 – Present Member, Institutional Review Board (IRB), The University of Texas at El Paso.

College of Health Sciences

2025 – Present Member, College of Health Sciences Annual Promotions and Evaluation (APE) Appeals Committee, The University of Texas at El Paso.

2023 – Present Member, Faculty Development Committee, College of Health Sciences, The University of Texas at El Paso.

Department of Physical Therapy and Movement Sciences

2024 – Present Member, Engagement Committee.

2023 – 2024 Member, Research Committee.

2023 – Present Admissions Reviewer, Doctor of Physical Therapy (DPT) Program; screened applications for incoming cohorts.

SCIENTIFIC OUTREACH

Invited Lectures in the Community

2025 ***Health Literacy, Ethnicity, and Recovery after Spinal Cord Injury.***
Invited lecture, Spinal Cord Injury Symposium Series. United Spinal Association of El Paso. 8/2/2025.

2024 ***The Brain on the Move.***
Invited Lecture, Osher Lifelong Learning Institute. OLLI Extended University. The University of Texas at El Paso. 07/10/2024

2024 ***Brain Plasticity: Active Brain for Life.***
Invited lecture, Osher Lifelong Learning Institute. OLLI Extended University. The University of Texas at El Paso. 2/19/2024

Courses, Workshops

2022 **Presumed Incompetent II: Lessons from the Struggles and Victories of Women in Color in Academia**
National Center for Faculty Development and Diversity Workshop

2020 **Developing Anti-Oppressive Communities: Supporting Black Students and Mentees**
National Center for Faculty Development and Diversity Workshop

2016 **Micro-aggressions, Micro-Resistance and Ally Development in the Academy**
National Center for Faculty Development and Diversity Workshop

2014, 2012, 2010 **Graduate Assistants' Equity Workshops**
University of Wisconsin – Madison

2010 – 2013 **University of Wisconsin – Madison STEM mentor**, panelist promoting under-represented minority participation in STEM majors

2010 – 2013	**Graduate Women in Science,** Sigma Delta Epsilon chapter STEM outreach speaker, mentor for girls in elementary and middle schools
2007 – 2009	**University of Wisconsin – Madison Graduate Student Collaborative** Graduate speaker for first-generation college students, panelist from the Kinesiology Department

PROFESSIONAL ASSOCIATIONS

2023 – Present	American Physical Therapy Association
2015 – Present	American Heart/Stroke Association
2014 – Present	American Society for Neurorehabilitation
2010 – 2014, 2023	Society for Neuroscience
2008 – 2010	Sigma Xi Honor Society