

CURRICULUM VITAE

Name: Sujay S. Galen, PT, PhD, FHEA

Rank: Chair and Associate Professor
 Department: Department of Physical Therapy

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 Nursing and Health Professions
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I. EDUCATION

2006-2012	University of Strathclyde Glasgow, Scotland, UK.	Postdoctoral Fellow in Bioengineering and Neuroscience.
2001-2006	University of Strathclyde Glasgow, Scotland, UK.	PhD in Bioengineering
2000-2001	University of Strathclyde Glasgow, Scotland, UK.	MSc with Distinction in Bioengineering
1994-1998	Christian Medical College Vellore, India.	Bachelor of Physiotherapy

II. PROFESSIONAL CREDENTIALS, CERTIFICATIONS, AND LISCENSURE

2019	Academic Leadership Development Program, Georgia State University.
2013- present	Physical Therapist, State of Michigan license number 5501016565.
2006- present	State Registered Physiotherapist UK, license number PH 70993.
2009	Certification course in Transcranial Magnetic Stimulation (TMS) methods and practice, University of Southern California, USA.
2006	Certified Engineer: Lokomat robotic assisted gait training system, Hocoma AG, Switzerland.

PROFESSIONAL POSITIONS

- 2018- present Chair and Associate Professor, Graduate Faculty, Tenured (2020)
Byrdine F. Lewis College of Nursing and Health Professions
Georgia State University, Atlanta GA, USA.
- 2016-2018 Associate Professor, Non-Tenure Track
Interim Program Director (2016-2017)
Physical Therapy Program
Eugene Applebaum College of Pharmacy and Health Care Sciences
Wayne State University, Detroit MI, USA.
- 2012-2016 Assistant Professor, Non-Tenure Track
Physical Therapy Program
Eugene Applebaum College of Pharmacy and Health Care Sciences
Wayne State University, Detroit MI, USA.
- 2009-2012 Director
MSc in Applied Biomechanics by distance learning program,
Department of Bioengineering
University of Strathclyde, Glasgow, Scotland, UK.
- 2006-2012 Visiting Lecturer
Division of Physiotherapy Education,
University of Nottingham, Nottingham, England, UK.
- 2004-2006 Lecturer in Physiotherapy
Division of Physiotherapy Education,
University of Nottingham, Nottingham, England, UK.

CLINICAL POSITIONS

- 2006-2012 Research Physiotherapist and Postdoctoral Fellow
Scottish Center for Innovation in Spinal Cord Injury
Queen Elizabeth National Spinal Injuries Unit
Glasgow, Scotland, UK.
- 1998-2000 Staff Pediatric Physiotherapist
Rehabilitation Centre and School for Children with Cerebral Palsy
Vellore, India.

III. SCHOLARSHIP AND PROFESSIONAL DEVELOPMENT

a. Publications

i. Journal articles

(Underlined indicates student researcher; * corresponding author)

1. Lorio AK, **Galen SS**, Morelli KM, Gore JB. A preliminary pilot study: Student Perceptions and Outcomes of Total On-Line (SPOT-ON) curriculum shift during the COVID-19 crisis... can students still learn remotely? *Journal of Allied Health*. Accepted for publication, January 26th 2021. (Impact factor: 0.61)
2. Begam M, Roche R, Hass JJ, Basel CA, Blackmer JM, Konja JT, Samojedny AL, Collier AF, **Galen SS**, Roche JA. The effects of concentric and eccentric training in murine models of dysferlin-associated muscular dystrophy. *Muscle & Nerve*. 2020;62(3):393-403. (Impact factor: 2.496)
3. Roche JA, Begam M, Eaton AK, Elkins CJ, Johnson JP, Rosinski MM, **Galen SS**. Minimally Invasive Muscle Embedding Generates Donor-Cell-Derived Muscle Fibers that Express Desmin and Dystrophin. *Military Medicine*. 2020;185(S1) 423-429. (Impact factor: 0.906)
4. Pardo V, **Galen S**. Treatment Interventions for Pusher Syndrome: A Case Series. *Neurorehabilitation*. 2019;44(1):131-40. (Impact factor: 1.736)
5. Fritz H, Patzer D, **Galen SS**. Robotic Exoskeletons For Reengaging In Everyday Activities: Promises, Pitfalls, and Opportunities. *Disability and Rehabilitation*. 2019;41(5):560-3. (Impact factor: 1.804)
6. Pepin ME, Devour A, Coolsaet R, **Galen SS**. Correlation Between Functional Ability and Physical Activity in Individuals with Transtibial Amputations. *Cardiopulmonary Physical Therapy Journal*. 2019;30(2):70-78. (Impact factor: NA)
7. Dijkers MP, Akers KG, Dieffenbach S, **Galen SS**. Systematic Reviews of Clinical Benefits of Exoskeleton Use for Gait and Mobility in Neurologic Disorders: A Tertiary Study. *Archives of Physical Medicine and Rehabilitation*. 2019. E-pub ahead of print. (Impact factor: 2.697)
8. Begam M, Collier AF, Mueller AL, Roche R, **Galen SS**, Roche JA. Diltiazem improves contractile properties of skeletal muscle in dysferlin-deficient BLAJ mice, but does not reduce contraction-induced muscle damage. *Physiological Reports*. 2018;6(11). E-pub ahead of print. (Impact factor: 26.27)
9. Pepin ME, Akers KG, **Galen SS***. Physical activity in individuals with lower extremity amputations: a narrative review. *Physical Therapy Reviews*. 2018;23(2):77-87. (Impact factor: NA)

10. Liu J, Lee I, Feng HZ, **Galen SS**, Huttemann PP, Perkins GA, et al. Aerobic Exercise Preconception and during Pregnancy Enhances Oxidative Capacity in the Hindlimb Muscles of Mice Offspring. *Journal of Strength and Conditioning Research*. 2018;32(5):1391-403. (Impact factor: 2.060)
11. Roche JA, Begam M, **Galen SS**. Minimally Invasive Muscle Embedding (MIME) - A Novel Experimental Technique to Facilitate Donor-Cell-Mediated Myogenesis. *Journal of Visualized Experiments*. 2017(126). (Impact factor: 1.108)
12. Finkbiner MJ, Gaina KM, McRandall MC, Wolf MM, Pardo VM, Reid K, Adams, B, **Galen SS***. Video Movement Analysis Using Smartphones (ViMAS): A Pilot Study. *Journal of Visualized Experiments*. 2017(121). (Impact factor: 1.108)
13. Dunleavy K, **Galen S**, Reid K, Dhar P, DiZazzo-Miller R. Impact Of Inter-Professional Peer Teaching on Physical and Occupational Therapy Student's Professional Role Identity. *Journal of Inter-Professional Education & Practice*. 2017: 6(3):1-5. (Impact factor: 0.267)
14. Morse JJ, Pallaska G, Pierce PR, Fields TM, **Galen SS**, Malek MH. Acute Low-Dose Caffeine Supplementation Increases Electromyographic Fatigue Threshold in Healthy Men. *Journal of Strength and Conditioning Research*. 2016;30(11):3236-41. (Impact factor: 2.060)
15. Mahmutovic S, Sprout EY, Fontaine JC, Buskirk TM, **Galen SS**, Malek MH. Test-retest reliability of the electromyographic fatigue threshold for cycle ergometry. *Muscle Nerve*. 2016;53(5):803-7. (Impact factor: 2.496)
16. DesJardins AM, Schiller M, Eraqi E, Samuels AN, **Galen SS***. Validity of a Wireless Gait Analysis Tool (Wi-GAT) in assessing spatio-temporal gait parameters at slow, preferred and fast walking speeds. *Technology and Health Care*. 2016;24(6):843-52. (Impact factor: 0.787)
17. **Galen SS**, Pardo V, Wyatt D, Diamond A, Brodith V, Pavlov A. Validity of an Interactive Functional Reach Test. *Games for Health Journal*. 2015;4(4):278-84. (Impact factor: 1.782)
18. **Galen SS**, Guffey DR, Coburn JW, Malek MH. Determining The Electromyographic Fatigue Threshold Following a Single Visit Exercise Test. *Journal of Visualized Experiments*. 2015(101). (Impact factor: 1.108)
19. Eason T, Gavel CR, Hawley KA, **Galen SS**, Malek MH. Reliability of the log-transformed EMG amplitude-power output relationship for incremental knee-extensor ergometry. *Muscle Nerve*. 2015;52(3):428-34. (Impact factor: 2.496)

20. Pardo V, **Galen S**, Goldberg A. Effects of Custom-Molded and Prefabricated Hinged Ankle-Foot Orthoses on Gait Parameters and Functional Mobility in Adults with Hemiplegia: A preliminary report. *Journal of Prosthetics and Orthotics*. 2015;27(1) 33-38. (Impact factor: NA)
21. Macleod CA, Conway BA, Allan DB, **Galen SS***. Development and validation of a low-cost, portable and wireless gait assessment tool. *Medical Engineering and Physics*. 2014;36(4):541-6. (Impact factor: 1.785)
22. Fang J, Vuckovic A, **Galen S**, Conway BA, Hunt KJ. Mechanical stimulation of the foot sole in a supine position for ground reaction force simulation. *Journal of Neural Engineering and Rehabilitation*. 2014;11:159. (Impact factor: 3.582)
23. **Galen SS**, Malek MH. A Single Electromyographic Testing Point Is Valid to Monitor Neuromuscular Fatigue during Continuous Exercise. *Journal of Strength and Conditioning Research*. 2014;28(10):2754-9. (Impact factor: 2.060)
24. **Galen SS***, Clarke CJ, Mclean AN, Allan DB, Conway BA. Isometric hip and knee torque measurements as an outcome measure in robot assisted gait training. *Neurorehabilitation*. 2014;34(2):287-95. (Impact factor: 1.736)
25. McCall G, **Galen S**, Callaghan M, Chapman G, Liu A, Jones R. Effect of Patellofemoral Brace and Tape on Knee Joint Kinematics and Kinetics. *Journal of Prosthetics and Orthotics*. 2014;26(3):146-153. (Impact factor: NA)
26. Fang J, Vuckovic A, **Galen S**, Cossar C, Conway BA, Hunt KJ. Design and evaluation of a prototype gait orthosis for early rehabilitation of walking. *Technology and Health Care*. 2014;22(2):273-88. (Impact factor: 0.787)
27. Fang J, **Galen S**, Vuckovic A, Conway BA, Hunt KJ. Kinetic analysis of supine stepping for early rehabilitation of walking. *Proceedings of the Institution of Mechanical Engineers, Part H*. 2014;228(5):456-64. (Impact factor: 1.317)
28. Fang J, Vuckovic A, **Galen S**, Conway B, Hunt K. Foot Trajectory Approximation Using the Pendulum Model of Walking. *Medical and Biological Engineering and Computing*. 2014;52(1):45-52. (Impact factor: 2.039)
29. VanHedel HJA, Kumru H, Rohrich F, **Galen S**. Changes in Electrical Perception Threshold Within the First 6 Months After Traumatic Spinal Cord Injury: A Multicenter Responsiveness Study. *Neurorehabilitation and Neural Repair*. 2012;26(5):497-506. (Impact factor: 3.757)
30. **Galen S***, Wiggins L, McWilliam R, Granat M. A combination of Botulinum Toxin A therapy and Functional Electrical Stimulation in children with cerebral palsy - A pilot study. *Technology and Health Care*. 2012;20(1):1-9. (Impact factor: 0.787)

31. **Galen SS***, Clarke CJ, Allan DB, Conway BA. A portable gait assessment tool to record temporal gait parameters in SCI. *Medical Engineering and Physics*. 2011;33(5):626-32. (Impact factor: 1.785)
32. Fang J, Gollee H, **Galen S**, Allan DB, Conway BA, Vuckovic A. Kinematic modelling of a robotic gait device for early rehabilitation of walking. *Proceedings of the Institution of Mechanical Engineers, Part H*. 2011;225(H12):1177-87. (Impact factor: 1.317)
33. Ellaway P, Kuppuswamy A, Balasubramaniam A, Maksimovic R, Gall A, Craggs M, Mathias C, Bacon M, Prochazka A, Kowalczewski J, Conway B, **Galen S**, Catton C, Allan DB, Curt A, Wirth B, van Hedel HJ. Development of quantitative and sensitive assessments of physiological and functional outcome during recovery from spinal cord injury: A Clinical Initiative. *Brain Research Bulletin*. 2011;84(4-5):343-57. (Impact factor: 3.103)
34. Fleet K, **Galen S***, Moore C. Duration of strength retention of ankle taping during activities of daily living. *Injury*. 2009;40(3):333-6. (Impact factor: 1.834)

Letter to the Editor

1. Dijkers MP, Akers KG, **Galen SS**, Patzer DE, Vu PT. Letter to the editor regarding "Clinical effectiveness and safety of powered exoskeleton-assisted walking in patients with spinal cord injury: systematic review with meta-analysis". *Medical Devices: Evidence and Research*. 2016;9:419-20.

ii. Book chapters (none)

iii. Books (none)

iv. Monographs (none)

v. Proceedings and abstracts

1. Brown J, Siekirk N, Kendall B, Pardo V, Lai Q, **Galen S**, McCready T et al. Preferred Leg Drives Seated And Bilateral Exercise In Chronic Stroke And Healthy Control. *Medicine & Science in Sports & Exercise*. 2020; 52(7s):559.
2. Siekirk N, Kendall B, Pardo V, Lai Q, **Galen S**, McCready T et al. Bilateral Imbalance Of Distal Electromyography Is Not Acutely Altered By Exercise Mode In Chronic Stroke. *Medicine & Science in Sports & Exercise*. 2020; 52(7s):734-735.
3. Siekirk N, Lai Q, Pardo V, **Galen S**, Kendall B, Hew-Butler T. Effect of Treadmill vs. Recumbent Cross Trainer on Gait and Leg Electromyography after Chronic Stroke. *Medicine and Science in Sports and Exercise*. 2019;51(6):348.
4. Roche JA, **Galen SS**, Begam M. Minimally-Invasive Muscle Embedding (MIME) Exposes a Potential Regeneration Defect in Dysferlin-Deficient Muscle. *American Journal of Pathology*. 2018;188(10):2438-9.

5. Siekirk N, **Galen S**, Pardo V, Lai Q. The effect of practice on muscle activity in recumbent stepping. *Journal of Sports and Exercise Psychology*. 2017;39:S200.
6. Siekirk NJ, Pardo V, Lai Q, **Galen S**. Effect of stepping rate and resistance on lower extremity electromyography in recumbent stepping. *Journal of Sports and Exercise Psychology*. 2016;38:S108.
7. Begam M, **Galen SS**, Roche JA. Exhaustion of Regenerative Potential Due to A Low Threshold for Exercise-induced Myogenesis Might Explain Progressive Weakness in Dysferlin-linked Muscle Diseases. *The Federation of American Societies for Experimental Biology Journal*. 2016;30: 1b716.

vi. Other significant publications (none)

b. Scholarship and Professional Development

i. Grants and Funding

1. External -- funded

Grants with Industrial Collaboration are indicated with**

Title: Effects of a Single Bout Combined Whole-Body VIBRAtion and Treadmill (VIBRANT) Training on Gait and Spasticity in Ambulatory Children with Cerebral Palsy

Grant awarded by: Georgia Foundation of Physical Therapy

Project start date: June 2021

Project end date: May 2022

Funds awarded: \$10,000

Role: Co-Investigator

Title: Impact of an ultralight manual wheelchair on wheelchair skills and performance in individuals with cerebrovascular accidents **

Grant awarded by: Permobil Inc. USA, Permobil, Sweden

Project start date: August 2019

Project end date: May 2022 (Extended due to COVID-19)

Funds awarded: \$10,000

Role: Principal Investigator

Title: Rehabilitative Interventions for Rejuvenating the Regenerative Potential of Skeletal Muscle.

Grant awarded by: National Institutes of Health (NIH)

Grant ID: 1R03HD091648-01

Grant mechanism: R03

Project start date: April 2017

Project end date: August 2019

Funds awarded: \$100,000

Role: Co-Investigator

Title: Exploratory Studies on Muscle Activation using NuStep/INS9.**
Grant awarded by: Small Company Innovation Program (SCIP)/Technology and Commercialization Assistance (TCA) – State of Michigan/NuStep sponsored Grant
Grant mechanism: Small Companies Innovation Program
Project start date: October 2017
Project end date: June 2018
Funds awarded: \$80,000
Role: Principal Investigator
Industrial Collaborator: NuStep Inc. Ann Arbor, Michigan, USA.

Title: Novel Rehabilitation Interventions for Muscle Loss.
Grant awarded by: Alliance for Regenerative Rehabilitation Research and Training (AR3T)
Project start date: April 2016
Project end date: October 2017
Funds awarded: \$20,000
Role: Co-Investigator

Title: Developing a multi-pronged strategy for the clinical management of dysferlinopathies.
Grant awarded by: Jain Foundation Grant
Project start date: November 2014
Project end date: October 2016
Funds awarded: \$100,000
Role: Co-Investigator

Title: Microsoft Kinect as a Clinical Assessment Tool.
Grant awarded by: MPTA Institute for Education and Research
Project start date: July 2013
Project end date: June 2014
Funds received: \$500
Role: Principal Investigator

2. Contracts/Subcontracts--funded

Title: Restoration of Reaching and Grasping Function in Individuals with Spinal Cord Injury Using MyndMove Neuromodulation Therapy.**
Grant Awarded by: Congressionally Directed Medical Research Program (CDMRP), Department of Defense
Award number: W81XWH-16-1-0790
Project start date: April 2016
Project end date: September 2021
Funds awarded: \$2.1 million
Subcontract to GSU: \$61,272
Role: Research monitor, multi-center trial Detroit Site PI: 2016-18
Industrial Collaborator: Myndtec Inc. Toronto, Ontario, Canada.

3. Internal grants--funded

Title: Development of an Interactive Balance Performance Assessment (I-BPA) using the Microsoft Kinect Sensor.

Grant awarded by: Faculty Award Research Program (FRAP), Eugene Applebaum College of Pharmacy and Health Sciences.

Project start date: November 2013

Project end date: October 2015

Funds awarded: \$14,550

Role: Principal Investigator

Title: Development and testing of an Exercise Adherence Monitoring (EXAM) device.

Grant awarded by: Faculty Award Research Program (FRAP), Eugene Applebaum College of Pharmacy and Health Sciences.

Project start date: July 2013

Project end date: June 2015

Funds Awarded: \$9,480

Role: Principal Investigator

4. Grants submitted—Under Review (Proposals submitted at GSU)

Title: A system for the objective and quantitative measure of cervical mobility

Funding source: Claim Detect LLC/NIH SBIR

Project start date: October 2021

Project end date: September 2023

Funds Requested: \$728,520

Role: Principal Investigator – GSU Site (Sub-contract)

Title: Diagnostic Measures of Ankle Foot Stiffness and Their Role in AFO Motion Control Performance.

Funding source: Orthotic and Prosthetic Education and Research Foundation

Project start date: June 2021

Project end date: May 2022

Funds Requested: \$25,000

Role: Co-investigator

5. Grants submitted--not funded (Proposals submitted at GSU)

Title: A targeted balance and mobility training intervention to improve physical activity in individuals with lower-limb amputation: A preliminary study

Funding source: Georgia Foundation of Physical Therapy

Project start date: May 2020

Project end date: April 2021

Funds Requested: \$10,000

Role: Principal Investigator

Title: Improving physical activity through balance and mobility training in individuals with lower extremity amputations.

Funding source: Lewis Foundation Grant, Byrdine F. Lewis College of Nursing and Health Sciences

Project start date: June 2019

Project end date: May 2021

Funds Requested: \$10,000

Role: Principal Investigator

Title: Does talking and texting while walking place individuals with multiple sclerosis at a greater risk of falls?

Funding source: National Multiple Sclerosis Society

Project start date: February 2019

Project end date: January 2020

Funds Requested: \$53,776

Role: Co-Investigator

6. Other funding not captured

Competitive funding awarded for graduate studies

PhD studentship

Funding awarded by: University of Strathclyde, Glasgow, Scotland

Funds awarded: \$92,000 (approx.)

Funding start date: October 2001

Funding end date: September 2004

Award Recipient: Sujay Galen

Award features: The award covered tuition and a monthly stipend for living expenses.

Commonwealth Scholarship

Funding awarded by: Department of International Development, United Kingdom

Funds awarded: \$30,700 (approx.)

Funding start date: October 2000

Funding end date: September 2001

Award Recipient: Sujay Galen

Award features: The award covered tuition, a monthly stipend for living expenses, textbook allowance and return flight tickets to scholar's home country.

c. Professional Presentations

1. Presented papers

Refereed

Underlined indicates student researcher

- 2020 Huggins H, Aiken A, Galen S. EMBRACE: Enhancing Mindfulness, Professional Behavior, Resilience and Accountability in Clinical Education in Students with Stress and Anxiety. ACAPT Educational Leadership Conference 2020 (Virtual Conference) (October)
- 2019 Robertson K, Smith R, Galen S, Macleod C, Kilgore R, Mychalowych N, Pepin M.E. The Effect Of Wearable Sensor Visual Biofeedback On The Ability To Maintain A Neutral Spine. Michigan Physical Therapy Association Fall Meeting, Grand Rapids, MI. (October)
- 2018 Roche JA, Begam M, Eaton AK, Elkins CJ, Johnson JP, Rosinski, MM, Galen S. Minimally Invasive Muscle Embedding Generates Donor-Cell-Derived Muscle Fibers that Express Desmin and Dystrophin. Proceedings of the 2018 Military Health System Research Symposium
- 2017 Caldwell J, DeAngelo S, Rohkohl A, Swadling A, Galen S, Pardo V. Effects of Visual Feedback on Muscle Recruitment and Retention of Force Production in Lower Extremity Muscles in Individuals Post Stroke. Michigan Physical Therapy Association Fall Meeting, Frankenmuth, MI. (October)
- 2017 Devour A, Coolsaet R, Galen S, Reid K, Burzynski E, Eick K, Filippis R, Pepin M. Physical Activity, Balance Performance And K-Levels in Individuals With Below Knee Amputations. Combined Sections Meeting of the American Physical Therapy Association, San Antonio, TX. (February)
- 2016 Pepin M, Coolsaet R, Devour A, Burzynski E, Eick K, Filippis R, Reid K, Galen S. Correlations Between Functional Performance Measures in Individuals with Below Knee Amputations. Michigan Physical Therapy Association, Fall Conference, Holland MI.(October)
- 2016 Beujean S, Bowerson K, Mira A, Galen S, Pardo V. Effects Of Nustep Seat Position and Cadence On Muscle Activation In Patients With Chronic Stroke. Michigan Physical Therapy Association, Fall Conference, Holland MI.(October)
- 2015 Galen S, Larson C, Denes, M, Pardo V, Devour A, Berndt L, Vanderweele H, Larsen K, VanStrien L. Kinematic Adaptations During Walking Using A Bionic Exoskeleton In Healthy Individuals. International Spinal Cord Injury Society and American Spinal Injuries Association Conference, Montreal, Canada. (May)
- 2015 Diamond A, Brodith V, Wyatt D, Pardo V, Galen S. Validity Of An Interactive Functional Reach Test (I-Frt) Performed Using The Microsoft Kinect® Sensor. Combined Sections Meeting of the American Physical Therapy Association, Indianapolis, IN. (February)

- 2014 Diamond A, Brodith V, Wyatt D, Pardo V, Galen S. Validity Of An Interactive Functional Reach Test (I-Frt) Performed Using The Microsoft Kinect® Sensor. Michigan Physical Therapy Association Fall Meeting, Kalamazoo, MI. (October)
- 2013 Goldberg A, Talley S, Galen S, Corbin A, Dewald, S, Shurkus, K, Wilert, K. Associations Between Gait Self-Efficacy And Walking Performance In Community Dwelling Older Adults. Michigan Physical Therapy Association Fall Meeting, Detroit, MI. (October)
- 2012 Galen S, Catton C, Allan D Conway B. Monitoring Neurological And Functional Recovery During Robot-Assisted Gait Training In Spinal Cord Injury. Michigan Physical Therapy Association Fall Meeting, Mackinac Island, MI. (September)
- 2010 Galen SS, Catton CJ, McLean A, Allan D, Conway BA. Neurophysiological and Functional measures to monitor recovery during Robot-Assisted Gait Training in Spinal Cord Injury. Bioengineering10 – Institute of Physics and Engineering in Medicine joint meeting, Nottingham, UK. (September)
- 2006 Baylis H, Galen S. Muscle Performance of Shoulder Rotators in University Tennis Players. International Symposium of Biomechanics in Sports, Salzburg, Austria.(July) **(New Investigator Award- Finalist)**
- 2004 Galen SS, Granat MH. Combined Effects Of Botulinum Toxin A Therapy And FES In Dynamic Equines. British Society of Rehabilitation Medicine, Spring Meeting, Derby, U.K. (May)
- 2003 Galen SS, Granat MH. Effects Of Botulinum Toxin A Therapy And FES On Dynamic Equines. International Functional Electrical Stimulation Society. Annual Conference. Brisbane, Australia. (July) **(Royal Academy of Engineering – Travel Award)**
- 2002 Galen SS, Granat MH, McWilliam R, Wiggins L. Study Of The Effect Of Functional Electrical Stimulation (FES) On Walking In Children Undergoing Botulinum Toxin A Therapy, Workshop On Upper And Lower Limb Electrical Stimulation In Pediatrics. Queen Mary’s Hospital, Roehampton, London. (June)
- 1998 Galen SS, Velusamy S, Shanmugam S, Bhattacharji S. Muscle Activity Analysis Of Latissimus Dorsi And External Oblique In Paraplegic Walking. Annual conference of the Indian Association of Physiotherapists. Chennai, India. (July)

Invited

- 2021 Physical Therapy Education in the United States. Division of Physiotherapy, Glasgow Caledonian University, Glasgow Scotland, UK. (March)
- 2020 Virtual Reality in Rehabilitation. California Physical Therapy Conference. Virtual Meeting (October)
- 2018 Low-Cost Technologies To Assess Mobility And Balance. Braintree Rehabilitation Conference, Boston, MA. (November)
- 2017 Pusher Syndrome: Neuroscience, Evidence, Assessment, And Treatment. Combined Sections Meeting, APTA, San Antonio, TX.(February)
- 2016 Collaborative Research Efforts Between Physiotherapy, Engineering And Industry -A Perspective From Michigan. Department Of Bioengineering, University Of Strathclyde, Glasgow, United Kingdom. (November)
- 2015 Rehabilitation Technologies And Its Impact On Physical Therapy Practice. Michigan Physical Therapy Association, Fall Conference. Thompsonville MI. (October).
- 2014 Gait And Balance In The Clinical Setting. Michigan Physical Therapy Association Upper Peninsula District, Summer Meeting, Escanaba, MI. (July)
- 2013 Ageing And Neuroplasticity: Implications For Rehabilitation. School Of Allied Health Sciences, Naresuan University, Phitsanulok, Thailand. (December)
- 2013 Functional And Neurophysiological Outcome Measures To Study Recovery In Spinal Cord Injury. Department Of Rehabilitation Medicine, Beaumont Hospital, Royal Oak, MI. (January).
- 2012 Development Of Outcome Measures To Study Recovery In Spinal Cord Injured Subjects. Jousse Lecture Series, Toronto Rehabilitation Institute, Toronto, Canada. (October).
- 2012 Functional And Neurophysiological Outcome Measures To Study Recovery In Spinal Cord Injury. Institute Of Gerontology, Wayne State University, Detroit, MI. (October).

2. Poster presentations

Underlined indicates student researcher

- 2021 Galen S, Pardo V, Brahier A, Crandall A, Johnson A, Mehmed-Bialowicz S, Siekirk N, Sucic J, Yahr W, Goldberg A. Does BDNF Val66Met Polymorphism Explain Differences in Soleus Muscle Activation Following Recumbent Stepping Exercises? Combined Sections Meeting of the American Physical Therapy Association, Virtual Meeting. (February).
- 2021 Corbett A, Lam K, Macleod C, Patel K, Fritz N, Galen S. Texting While Walking: The Effect of Manual and Verbal Texting on Gait Performance. Combined Sections Meeting of the American Physical Therapy Association, Virtual Meeting. (February).
- 2021 Small W, Thomas M, Macleod C, Galen S. Is Immersive Technology- Based Gait and Balance Training Effective in Individuals with Parkinson'S Disease? Combined Sections Meeting of the American Physical Therapy Association, Virtual Meeting. (February)
- 2020 Buchman E, Macleod C, Nourse J, Wise A, Galen S. Impact of an ultralight manual wheelchair on wheelchair skills and performance. Georgia Occupational Therapy Association (GOTA) Annual Conference. Virtual Meeting (October)
- 2020 Macleod C, Corbett A, Lam K, Patel K, Fritz N, Galen S. Effect of verbal texting on Gait performance. Georgia APTA Annual Conference Annual Conference. Virtual Meeting (September)
- 2020 Macleod C, Bennett T, Lanier C, Mercure L, Pepin M, Galen S. Effect of verbal texting on Gait performance. Georgia CTSA. Atlanta, Georgia (February)
- 2020 Galen S, Coulter E, Civitarese A, Murray A, Myers J, Krusinski, K, Fritz NE. The Effect of Texting on Gait in Healthy Individuals across Three Age Groups. Combined Sections Meeting of the American Physical Therapy Association, Denver, CO. (February)
- 2019 Dieffenbach S, Dijkers M, Akers K, Galen S. Reporting Of Systematic Reviews Of Exoskeleton Training Parameters For Patients With Neurological Disorders. Association Of Academic Physiatrists. Puerto Rico (February)
- 2019 Siekirk N, Lai Q, Pardo V, Kendall B, Galen S. The Effect Of Treadmill Vs. Nustep On Gait And Lower Extremity Electromyography After Chronic Stroke. South East American College Of Sports Medicine Annual Meeting. Greenville, SC. (February)
- 2019 Brahier A, Crandall A, Johnson A, Mehmed-Bialowicz S, Siekirk N, Pardo V, Galen S. Preferential Activation Of Lower Extremity Muscles Using A Foot Strap During Recumbent Stepping. Combined Sections Meeting Of The American Physical Therapy Association, Washington DC. (January)

- 2018 Schiller M, Weber K, Gray E, Kottoor J, Galen S. Falls Risk In Patients Diagnosed With Critical Illness Myopathy. Combined Sections Meeting Of The American Physical Therapy Association, New Orleans, LA. (February).
- 2018 Pardo V, Caldwell J, Deangelo S, Rohkohl A, Swadling A, Galen S. Effect Of Visual Feedback On Muscle Recruitment And Retention Of Force Production During Recumbent Stepping In Individuals With Stroke. Combined Sections Meeting Of The American Physical Therapy Association, New Orleans, LA. (February).
- 2018 Thornton A, Kosky J, Gasperoni V, Lowrey L, Varghese A, Galen S, Pepin M. Muscle Endurance Measures Using Isokinetic Dyanmometer And Nustep. Combined Sections Meeting Of The American Physical Therapy Association, New Orleans, LA. (February).
- 2017 Pepin M, Coolsaet R, Devour A, Burzynski E, Eick K, Filippis R, Reid K, Galen S. Correlations Between Functional Performance Measures In Individuals With Below Knee Amputations. Combined Sections Meeting Of The American Physical Therapy Association, San Antonio, TX. (February)
- 2017 Bowerson K, Beujean S, Mira A, Galen S, Pardo V. Effects Of Nustep Seat Position And Cadence On Muscle Activation In Patients With Chronic Stroke. Combined Sections Meeting Of The American Physical Therapy Association, San Antonio, TX. (February)
- 2016 Coolsaet R, Devour A, Burzynski E, Eick K, Filippis R, Reid K, Galen S, Pepin M. Physical Activity And Balance Performance And Confidence Measures In Individuals With Below Knee Amputations. Michigan Physical Therapy Association, Fall Conference, Holland MI. (October)
- 2016 Devour A, Coolsaet R, Burzynski E, Eick K, Filippis R, Reid K, Pepin M, Galen S. Physical Activity, Balance Performance And K-Levels In Individuals With Below Knee Amputations. Michigan Physical Therapy Association, Fall Conference, Holland MI. (October)
- 2016 Morse J, Pallaska G, Pierce P, Fields T, Galen S, Malek M. Acute Low-Dose Caffeine Supplementation Increases Emg Fatigue Threshold In Healthy Men. Michigan Physical Therapy Association, Fall Conference, Holland MI. (October)
- 2016 Schiller M, Kypros M, Stempky E, Thornton K, Weber K, Wilkewitz R, Greene C, Mugarian L, Gray E, Kottoor J, Galen S. Falls Risk In Patients Diagnosed With Critical Illness Myopathy. Combined Sections Meeting Of The American Physical Therapy Association, Anaheim, CA. (February).

- 2016 Pardo V, Bendewald M, Casanova C, Kelly K, Rekowski M, Goldberg A, Galen S. Feasibility And Minimum Detectable Change Of The Lower Extremity Fugl-Meyer Assessment In Acute Stroke. Combined Sections Meeting Of The American Physical Therapy Association, Anaheim, CA. (February)
- 2016 Galen S, Larson C, Denes, M, Pardo V, Devour A, Berndt L, Vanderweele H, Larsen K, Vanstrien L. Kinematic Adaptations During Walking Using A Bionic Exoskeleton In Healthy Individuals. Combined Sections Meeting Of The American Physical Therapy Association, Anaheim, CA. (February)
- 2016 Galen S, Finkbiner M, Gaina K, Mcrandall M, Wolf M, Reid K, Adams B, Pardo V. Video Movement Analysis Using Smart Phones (VIMAS): A Pilot Study. Combined Sections Meeting Of The American Physical Therapy Association, Anaheim, CA. (February)
- 2015 Kypros M, Stempky E, Thornton K, Weber K, Wilkewitz R, Greene C, Mugarian L, Gray E, Kottoor J, Schiller M, Galen S. Falls Risk In Patients Diagnosed With Critical Illness Myopathy. Michigan Physical Therapy Association Fall Meeting, Thompsonville, MI. (October)
- 2015 Bendewald M, Casanova C, Kelly K, Rekowski M, Goldberg A, Galen S, Pardo V. Feasibility And Minimum Detectable Change Of The Lower Extremity Fugl-Meyer Assessment In Acute Stroke. Michigan Physical Therapy Association Fall Meeting, Thompsonville, MI. (October)
- 2015 Finkbiner M, Gaina K, Mcrandall M, Wolf M, Pardo V, Reid K, Adams B, Galens. Video Movement Analysis Using Smart Phones (VIMAS): A Pilot Study. Michigan Physical Therapy Association Fall Meeting, Thompsonville, MI. (October)
- 2015 Galen S, Patzer D, Vu P, Pardo V. Immediate Effect Of Whole Body Vibration Of Gait In Patients With Incomplete Spinal Cord Injury: Preliminary Results. International Spinal Cord Injury Society And American Spinal Injuries Association Conference, Montreal, Canada. (May)
- 2015 Des Jardins A, Eraqi E, Samuels S, Schiller M, Galen S. Validity Of The Wireless Gait Assessment Tool In Preferred, Slow And Fast Walking Speeds. Combined Sections Meeting Of The American Physical Therapy Association, Indianapolis, IN. (February)
- 2014 Des Jardins A, Eraqi E, Samuels S, Schiller M, Galen S. Validity Of The Wireless Gait Assessment Tool In Preferred, Slow And Fast Walking Speeds. Michigan Physical Therapy Association Fall Meeting, Kalamazoo, MI. (October)

- 2014 Pardo V, Ching M, Chiu E, Pisani A, Reyes K, Goldberg A, Galen S. Feasibility Of The Lower Extremity Fugl Meyer Assessment In Acute Stroke. Michigan Physical Therapy Association Fall Meeting, Kalamazoo, MI. (October) (**Best Poster Award**)
- 2014 Patzer D, Vu P, Pardo V, Galen S. Immediate Effect Of Whole Body Vibration On Gait In Patients With Incomplete Spinal Cord Injury: Preliminary Results. International Spinal Cord Injury Network Meeting, Toronto, Canada. (October) (**People's Choice Award For Best Research Presentation**)
- 2014 Galen S, Goldberg A, Talley S, Dewald, S, Wilert K, Shurkus, K, Corbin A. Gait Parameters Measured Using A Wireless Gait Assessment Tool And Its Association With Clinical Walking Measures In Older Adults. Combined Sections Meeting Of \ The American Physical Therapy Association, Las Vegas, NV. (February)
- 2014 Goldberg A, Talley S, Galen S, Corbin A, Dewald, S, Shurkus, K, Wilert, K. Associations Between Gait Self-Efficacy And Walking Performance In Community Dwelling Older Adults. Combined Sections Meeting Of The American Physical Therapy Association, Las Vegas, NV. (February)
- 2014 Talley S, Galen S. Relationship Between Normalized Lower Extremity Strength, Body Mass And Postural Sway In Young Children. Combined Sections Meeting Of The American Physical Therapy Association, Las Vegas, NV. (February)
- 2013 Galen S, Goldberg A, Talley S, Dewald, S, Wilert K, Shurkus, K, Corbin A. Gait Parameters Measured Using A Wireless Gait Assessment Tool And Its Association With Clinical Walking Measures In Older Adults. Michigan Physical Therapy Association Fall Meeting, Detroit, MI. (October) (**Best Poster Award**)
- 2013 Talley S, Galen S. Relationship Between Normalized Lower Extremity Strength, Body Mass And Postural Sway In Young Children. Michigan Physical Therapy Association Fall Meeting, Detroit, MI. (October)
- 2013 Mccall GJ, Callaghan MJ, Galen SS, Chapman GJ, Liu A, Jones RK. The Effect Of Patellofemoral Bracing And Taping On Knee Joint Kinematics And Kinetics. European Society For Movement Analysis In Adults And Children. Glasgow UK. (September) (**Poster Competition Finalist**)
- 2013 Galen S, Clarke C, Allan D Conway B. Monitoring Neurological And Functional Recovery During Robot-Assisted Gait Training In Spinal Cord Injury Combined Sections Meeting Of The American Physical Therapy Association, San Diego, CA. (January)

- 2012 Galen SS, Catton CJ, Mclean A, Allan D, Conway BA. Muscle Strength Changes Recorded Using Dynamometry During Robot Assisted Gait Training. Michigan Physical Therapy Association Fall Meeting, Mackinac Island, MI. (September)
(Best Poster Award)
- 2012 Galen SS, Catton CJ, Mclean A, Allan D, Conway BA. Muscle Strength Changes Recorded Using Dynamometry During Robot Assisted Gait Training. Rick Hansen International Spinal Cord Injury Meeting, Vancouver BC. Canada. (May)
- 2010 Galen SS, Catton CJ, Allan DB, Conway BA. Significance Of Motor Evoked Potentials In The Abductor Digiti Minimi(ADM) Muscle In The Foot In Incomplete Spinal Cord Injury. Federation Of European Neuroscience Societies Satellite Symposium. Nijmegen, Netherlands. (July)
- 2010 Galen SS, Catton CJ, Allan DB, Conway BA. EMG In Key Lower Limb Muscles During Robot Assisted Treadmill Walking In Incomplete Spinal Cord Injury. Federation Of European Neuroscience Societies Satellite Symposium. Nijmegen, Netherlands. (July)
- 2010 Fang J, Galen S, Gollee H, Conway B, Vuckovic A. Modeling Of A Gait Robotic Device For An Early Rehabilitation Of Walking. European Society Of Biomechanics, Edinburgh, UK. (July)
- 2009 Conway BA, Galen SS, Catton CJ, , Allan DB, Hunt K. Functional Outcomes Following Assisted Locomotor Training In Incomplete Spinal Cord Injury. Society For Neuroscience. Chicago, USA. (October)
- 2009 Galen SS, Catton CJ, Hunt K, Allan DB, Conway BA. Changes In The Innervations Of The Postvertebral Muscles In Incomplete Spinal Cord Injury Following Locomotor Training. Society For Neuroscience. Chicago, USA. (October)
- 2008 Galen SS, Catton CJ, Hunt KJ, Allan DB, Conway BA. Comprehensive Evaluation Of Spinal Cord Function Accompanying Lokomat Rehabilitation In Patients With Incomplete Spinal Cord Injury. Spinal Research Network Meeting, London, UK. (September)
- 2008 Catton CJ, Galen SS, Hunt KJ, Allan DB, Conway BA. Sensory Changes After Robotic-Assisted Locomotor Training In Chronic Patients With Incomplete Spinal Cord Injury. British Society Of Rehabilitation Medicine. Birmingham, UK. (May)

- 2008 Galen SS, Catton CJ, Allan DB, Hunt KJ, Conway BA. Effect Of Lokomat Training On Over Ground Gait Parameters In Incomplete Spinal Cord Injured Subjects. Gait And Clinical Movement Analysis Society, Richmond, USA. (April)
- 2006 Fleet K, Galen S, Moore C. Duration Of Strength Retention Of Ankle Taping During Activities Of Daily Living. Chartered Society Of Physiotherapy Congress, Birmingham, UK. (October) (**Best Poster Award- 1st Runner Up**)
- 2005 Galen SS, Granat MH, Combined Effects Of Botulinum Toxin A Therapy And FES On Dynamic Equinus. Proceedings Of IFESS Annual Conference; 162-64 Montreal, Canada. (July)

d. Editorial or Reviewer Projects

Food and Drug Administration, USA

2021 – present Medical Device Advisory Committee, Office of Device Evaluation

Grant Review Panel

2017 - 2020 NSF Panel member, DARE CAREER grants.
 2016 Ontario Neurotrauma Foundation/ Rick Hansen Institute clinical grants.
 2015 LSVT Student grants, LSVT foundation.

Journal/Editorial Board

2017 - present Editorial Board Member, Medical Engineering and Physics.
 2015 - present Editorial Board Member, International Journal of Sports and Exercise Medicine.

Journal Reviewer

2019 - present New Zealand Journal of Physiotherapy
 2015 - present Disability and Rehabilitation
 2014 - present IEEE Transactions on Biomedical Engineering
 2014 - present Neurorehabilitation and Neural Repair
 2013 - present Journal of Neural Engineering
 2013 - present Journal of Strength Conditioning
 2012 - present Medical Engineering and Physics
 2012 - present Muscle and Nerve
 2011 - present Spinal Cord

Conference Abstract Reviewer

2019 - Present	APTA Georgia, Annual Conference.
2014 - 2017	Michigan Physical Therapy Association, Annual Conference.
2013 - 2017	National Strength Conditioning Association Annual Conference.

IV. Instruction**a. Teaching****i. Courses taught****Georgia State University**Graduate Courses

CNHP 6900	EKG Interpretation	Summer 2020	14 Students
PT 6910	Exercise Physiology	Spring 2019	40 Students

Undergraduate Courses

CNHP 3110	Interprofessional Research Practicum	Spring 2021	9 Students
CNHP 3900	EKG Interpretation	Summer 2020	8 Students

Wayne State UniversityGraduate Courses

PT 6400	Teaching and Learning in Healthcare	Spring 2018	34 Students
PT 5500	Kinesiology and Biomechanics	Winter 2018	35 Students
PT 6700	Motor Learning and Motor Control	Winter 2018	36 Students
PT 5400	Neuroanatomy and Neurophysiology	Fall 2017	36 Students
PT 7320	Rehabilitation Procedures	Fall 2017	33 Students
PT 6400	Teaching and Learning in Healthcare	Spring 2017	35 Students
PT 5500	Kinesiology and Biomechanics	Winter 2017	35 Students
PT 5400	Neuroanatomy and Neurophysiology	Fall 2016	36 Students
PT 6400	Teaching and Learning in Healthcare	Spring 2016	35 Students
PT 5500	Kinesiology and Biomechanics	Winter 2016	37 Students
PT 6700	Motor Learning and Motor Control	Winter 2016	37 Students
PT 5400	Neuroanatomy and Neurophysiology	Fall 2015	36 Students
PT 6400	Teaching and Learning in Healthcare	Spring 2015	31 Students
PT 5500	Kinesiology and Biomechanics	Winter 2015	31 Students
PT 6700	Motor Learning and Motor Control	Winter 2015	30 Students
PT 7320	Rehabilitation Procedures	Fall 2014	36 Students

PT 6400	Teaching and Learning in Healthcare	Spring 2014	32 Students
PT 5500	Kinesiology and Biomechanics	Winter 2014	34 Students
PT 6700	Motor Learning and Motor Control	Winter 2014	35 Students
PT 5300	Surface Anatomy	Fall 2013	34 Students
PT 6400	Teaching and Learning in Healthcare	Spring 2013	36 Students
PT 6700	Motor Learning and Motor Control	Winter 2013	37 Students
PT 6400	Teaching and Learning in Healthcare	Spring 2012	31 Students

Graduate Courses taught – Accurate Student Numbers Not Available

OT 5400	Neuroanatomy and Neurophysiology	Fall 2017
OT 5400	Neuroanatomy and Neurophysiology	Fall 2016
PT 7320	Rehabilitation Procedures	Fall 2016
OT 5400	Neuroanatomy and Neurophysiology	Fall 2015
PT 7320	Rehabilitation Procedures	Fall 2015
PT 5400	Neuroanatomy and Neurophysiology	Fall 2014
OT 5400	Neuroanatomy and Neurophysiology	Fall 2014

ii. Guest lectures

Undergraduate Courses

BME 3910	Biomedical Engineering (2013-2014)
BE 5998	Biomedical Engineering Honors Project (2015 – 2018)

iii. Other Teaching not captured

Online courses taught/developed

Contraversive Pushing: Physical Therapy Assessment and Management following Stroke.
Academy of Neurologic Physical Therapy. ([Available online](#): Jan 2019 – Present)

Continuing Education Courses taught/Developed

Summer Neuroscience Course – 2-day weekend course
Years Taught: 2015-present

b. Student Advisement

i. Dissertation, thesis, or MS projects

Georgia State University

DPT/PhD Dissertation Mentor

Title: Behavioral interventions to improve adherence to exercises in Physical Therapy

Student: Rachel Potter

Department: Kinesiology/Physical Therapy

PhD Projected Completion: May 2025

DPT Student Research Mentor

Students: Breanna Parsons and Rachel Potter

Title: Behavioral intervention to improve exercise adherence: A systematic review and meta-analysis.

Level: Doctor of Physical Therapy Capstone project

Year: 2020-22

Students: Jake Kneidel, Lori Tran and Makenna Gray

Title: Validation of a virtual reality based exercise program to improve upper extremity mobility

Level: Doctor of Physical Therapy Capstone project

Year: 2020-22

Students: Chelsea Lee, Tyra Holliday and Merin Matthew

Title: The effects of verbal texting on gait performance

Level: Doctor of Physical Therapy Capstone project

Year: 2020-22

Students: William Small and Malwin Thomas

Title: Effects of Virtual Reality and Augmented Reality on mobility and balance in individuals with Parkinson's disease. A systematic Review and Meta-Analysis

Level: Doctor of Physical Therapy Capstone project

Year: 2019-21

Students: Trexler Bennett, Laruen Mercure and Carly Lanier

Title: Augmented Feedback to Retrain a Neutral Spine

Level: Doctor of Physical Therapy Capstone project

Year: 2019-21

Students: Alexander Corbett and Kim Lam

Title: The effects of verbal texting on gait performance

Level: Doctor of Physical Therapy Capstone project

Year: 2019-21

Students: Jordan Nourse and Amber Wise

Title: The effect of an ultra-light wheelchair on mobility and function in individuals with stroke

Level: Doctor of Physical Therapy Capstone project

Year: 2019-21

Wayne State University

PhD Dissertation Mentor

Title: Lower Extremity Muscle Activation In Healthy Individuals And In Individuals With Stroke While Walking On A Treadmill Vs Nustep Stepping.

Student: Nicholas Siekrik

Department: Kinesiology

PhD Awarded: June 2018

DPT Student Research Mentor

Students: Ryan Kilgore, Nicholas Mychalowych, Kristen Robertson, Rachel Smith

Title: Augmented Feedback To Retrain A Neutral Spine

Level: Doctor Of Physical Therapy Capstone Project

Year: 2018-19

Students: Kimberly Krusinski, Sean Murray, Jennika Myers

Title: The Effects Of Verbal Texting On Gait Performance

Level: Doctor Of Physical Therapy Capstone Project

Year: 2017-18

Students: Jenna Page, Vlad Popescu-Alexa, Taylor Thurston

Title: Effect Of Foot Strop On Lower Extremity Muscle Activation During Recumbent Setting In Individuals With Stroke.

Level: Doctor Of Physical Therapy Capstone Project

Year: 2017-18

Students: Ann Brahier, Amelia Crandall, Alexzanda Johnson, Stephanie Mehmed-Bialowicz

Title: Effect Of Foot Strop On Lower Extremity Muscle Activation During Recumbent Setting In Healthy Adults.

Level: Doctor Of Physical Therapy Capstone Project

Year: 2017-18

Students: Jamie Caldwell, Sal Deangelo, Amanda Rohkohl,

Title: Effect Of Visual Feedback On Lower Extremity Muscle Activation During Recumbent Setting. Level: Doctor Of Physical Therapy Capstone Project

Year: 2016-17

Students: Tori Gasperoni, Jill Kosky, Laura Lowrey, Alyssa Thornton, Ansu Varghese

Title: Effects Of Muscle Endurance On Ambulatory Capacity Across K-Levels In Trans-Tibial Amputees.

Level: Doctor Of Physical Therapy Capstone Project

Year: 2016-17

Students: Alegra Devour, Tanya Joseph, Robin Coolsaet
Title: Balance Performance, Balance Confidence And Physical Activity In Trans-Tibial Amputees. Level: Doctor Of Physical Therapy Capstone Project
Year: 2015-16

Students: Katie Bowerson, Alyssa Mira, Stephanie Beujean
Title: Effect Of Seat Position On Lower Extremity Muscle Activation During Recumbent Stepping In Individuals With Stroke.
Level: Doctor Of Physical Therapy Capstone Project
Year: 2015-16

Students: David Court, Hannah Mckee-Boyes, Christopher Summers
Title: Effect Of Seat Position On Lower Extremity Muscle Activation During Recumbent Stepping In Healthy Individuals.
Level: Doctor Of Physical Therapy Capstone Project
Year: 2015-16

Students: Megan Wolf, Monica Finkbiner, Kira Gaina, Marie Mcrandall
Title: Development Of A Video Movement Analysis Protocol For Clinicians.
Level: Doctor Of Physical Therapy Capstone Project
Year: 2014-15

Students: Mike Kypros, Emily Stempky, Rachel Sorensen, Karyn Weber, Katie Thornton
Title: Assessment Of Falls Risk Using A Wireless Gait Assessment Tool In Patients With Critical Illness Myopathy.
Level: Doctor Of Physical Therapy Capstone Project
Year: 2014-15

Students: Travis Eason, Christine Gavel And Kyle Hawley
Title: A Proposed Critical Power Test For Single-Leg Knee-Extensor Ergometry.
Level: Doctor Of Physical Therapy Capstone Project
Year: 2013-14

Students: Andrew Diamond, Victor Brodith And Dough Wyatt
Title: Development Of The Microsoft Kinect As A Clinical Assessment Tool.
Level: Doctor Of Physical Therapy Capstone Project
Year: 2013-14

Students: Amanda Samuels, Enas Eraqi, Ashely Desjardines
Title: Validation Of The Wireless Gait Assessment Tool(Wi-Gat) For Fast And Slow Gait Speeds.
Level: Doctor Of Physical Therapy Capstone Project
Year: 2013-14

Students: Joel Stahl, Tame El-Bohy And Parvej Khan
 Title: Effects Of Whole Body Vibration On Gait In Sci Patients.
 Level: Doctor Of Physical Therapy Capstone Project
 Year: 2012-13

Students: Jon Potvin, Joyce Balagot And John Mallilay.
 Title: Comparison Of The V1-Pro With Gaitrite System In Recording Spatio-Temporal Parameters Of Gait In Healthy Volunteers.
 Level: Doctor Of Physical Therapy Capstone Project
 Year: 2012-13

Students: Amy Corbin, Katie Shurkus, Kourtney Willert And Stacey Dewald.
 Title: Modified Gait Efficacy Scale And Physical Performance Measures In Older Adults.
 Level: Doctor Of Physical Therapy Capstone Project
 Year: 2012-13

External Examiner for Doctoral Dissertation/PhD Committee member

- 2019 Sue Talley, PhD Committee Member, College of Education, Wayne State University, Detroit, MI.
- 2019 Prem Kumar Sivakumar, PhD Committee Member, College of Engineering, Wayne State University, Detroit, MI.
- 2018 Helen Evans, PhD Thesis External Examiner, School of Medicine, University of Nottingham, Nottingham, UK.
- 2016 Pauline Axford, EngD Thesis External Examiner, Department of Biomedical Engineering, University of Strathclyde, Glasgow, UK.

ii. Advisement of honors projects

Student: Celia Staniak
 Honors Thesis Title: Microsoft Kinect As A Clinical Assessment Tool
 Level: Biomedical Engineering Honors Project
 Year: 2015-16

Student: Curt Laugh
 Honors Thesis Title: Development Of A Neck Muscle Endurance Testing System
 Level: Biomedical Engineering Honors Project
 Year: 2014-15

iii. Other contributions to student accomplishments
 Student awards are mentioned along with the poster presentations

iv. Other student advisement not captured (None)

V. Service

a. Administrative service

2018 - present	Chair, Department of Physical Therapy College of Nursing and Health Sciences, Georgia State University
2016 - 2017	Interim Program Director, Physical Therapy Program College of Pharmacy and Health Sciences, Wayne State University
2009 - 2012	Director MSc in Applied Biomechanics by distance learning program, Department of Bioengineering, University of Strathclyde

b. Service to the University

Georgia State University

College/Department Committee Chaired

2020 - 2021	Chair, COACHE Lewis college faculty survey committee
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Wayne State University

College/Department Committee Chaired

2012 - 2016	Chair, Student Progress Committee, Physical Therapy program
2012 - 2016	Chair, Scholarship Committee, Physical Therapy program.
2014 - 2015	Chair, Due Process Committee, Nurse Anesthesia Program.
2014 - 2015	Chair, Assistant Professor Search Committee, Physical Therapy Program.

College/Department Committee Membership

2016 - 2018	Member, Diversity task force, College of Pharmacy and Health Sciences
2013 - 2018	Member, Research Committee, College of Pharmacy and Health Sciences
2014 - 2016	Member, Salary Committee, College of Pharmacy and Health Sciences
2013 - 2014	Member, Taskforce for College grades appeal policy, College of Pharmacy and Health Sciences

c. Service to the Profession

Professional Consultation

2017	Item writer for National Physical Therapy Examination (NPTE) Federation of the State Boards of Physical Therapy, Washington DC.
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- 2016 Member, PT Practice Analysis Task Force for NPTE Federation of the State Boards of Physical Therapy, Washington DC.
- 2015 Item writer for National Physical Therapy Examination(NPTE) Federation of the State Boards of Physical Therapy, Washington DC.

d. Service to the Community

- 2014 Volunteer Lecturer, Christian Medical College, Vellore, India. Health Volunteers Overseas, USA, Washington DC.

e. Publications

- 2018 Task Force publication of the National Physical Therapy Exam Test Content Outline. [Link to the document.](#)

f. Media presentations

- 2020 Looking Ahead: Increasing Use of Robotic Technologies in Clinical Practice. APTA Magazine featured article. [Link to the article.](#)
- 2019 Podcast on Using Virtual Reality for Pain Relief, Rehabilitation, and Recovery. [Link to the Podcast.](#)

g. Additional significant service activities not captured (None)

VI. Professional and Honor Organization Activities

a. Membership

- 2018 – present Physical Therapy Association of Georgia
- 2015 – 2018 American Spina Injuries Association
- 2012 – 2018 Michigan Physical Therapy Association
- 2012 – present American Physical Therapy Association
- 2009 – present Society for Neuroscience
- 2006 – present Chartered Society of Physiotherapy, UK.

b. Offices held

National Leadership in Professional Association

- 2018 – present Core Leader, Sensor and Robotics Core, Frontiers in Rehabilitation Sciences and Technology (FiRST) Council, American Physical Therapy Association.
- 2018 – present Member, Organizing Committee, 2020 Conference On Wearable Sensors and Robotics in Rehabilitatio

c. Committees

Professional Associations Committees (National and State Level)

2019 – present	Member, Research Committee, Physical Therapy Association of Georgia
2018 – present	Member, Awards Committee, Section on Research, American Physical Therapy Association
2015 – present	Member, Research-Intensive Physical Therapy Programs Consortium. American Council of Academic Physical Therapy.
2013 – 2016	Member, Research Committee, Michigan Physical Therapy Association.

d. Other Professional and Honor Organization activities not captured (none)

VII. Honors, Awards, and Recognitions

- 2015 SAGE Best Paper Prize in 2014 awarded by the Editorial Board of Journal of Engineering in Medicine.
- 2014 Training in Grantsmanship for Rehabilitation Research (TIGRR). Selected as a Mentee by a review committee from many applications submitted at a national level.
- 2014 People’s Choice Award for Best Research Presentation, International Spinal Cord Injury Network Meeting, Toronto, Canada.
- 2014 Outstanding Poster Presentation, Michigan Physical Therapy Association, Kalamazoo.
- 2013 Outstanding Poster Presentation, Michigan Physical Therapy Association, Detroit.
- 2012 Outstanding Poster Presentation, Michigan Physical Therapy Association, Kalamazoo.
- 2012 Best Post-Doctoral Research Award – Poster Presentation, University of Strathclyde, Glasgow, UK.
- 2009 Ipsen Training Fund. Awarded to support travel and course fees to obtain certification in transcranial magnetic stimulation procedures in human subjects.
- 2006 Learning and Teaching Development Fund, University of Nottingham. Awarded to conduct research in inter-professional training of communication skills in Health Care Professionals.
- 2003 Royal Academy of Engineering, UK Travel Award. Awarded to present my research at the International Functional Electrical Stimulation Society meeting in Australia.

- 2001 University of Strathclyde Research Scholarship. The Scholarship provided full tuition support and monthly stipend for a 3 year full-time PhD program at the Department of Bioengineering.
- 2000 Department for International Development Scholarship. The scholarship was awarded by the United Kingdom Government to citizens from common wealth countries. The Scholarship provided full tuition support and monthly stipend for a 1 year full-time MSc program at the Department of Bioengineering, University of Strathclyde.
- 1997 Dr. Mary Varghese memorial gold medal award for the best outgoing student in Physiotherapy.