

KWADWO OSEI APPIAH-KUBI, PT, MSPT, PHD

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EDUCATION

Ph.D. in Neuromotor Science

Temple University, Philadelphia, PA, United States

Dissertation: Effects of vestibular training on postural control in healthy adults

Jan 2014 – Dec 2019

M.S. Physical Therapy (PT) in Neuromusculoskeletal PT

Cardiff University, Cardiff, Wales, United Kingdom

Dissertation: Effect of the Benefoot Walker on plantar pressure and gait asymmetry during walking in healthy people

Sep 2007 – Sep 2009

B.S. Physical Therapy (PT)

University of Ghana, Ghana

Dissertation: Therapeutic exercises and transcutaneous electrical nerve stimulation (TENS) in the treatment of chronic low back pain (LBP)

Aug 2001 – May 2005

TEACHING EXPERIENCE

Research Assistant Professor

Clarkson University (Physical Therapy Dept.), Potsdam, NY, United States

PT 657: Advanced Clinicals Skills (Presentation consultant for students)

PT 648: Writing and Presentation Research (Research Advisor)

PT 618: Research Practicum (Research Advisor)

PT 614: Neuromuscular Physical Therapy (Semester coordinator/Instructor)

PT 608: Research Methods (Research Advisor)

PT 604: Physical Therapy for Multiple Systems Disorders I (Tutor and co-instructor)

PT 505: Foundational Sciences for Physical Therapy (Co-instructor)

PT 506: Professional Foundation for Physical Therapy (Co-instructor)

PT 528: Analytical Methods for Evidence Based Practice (Research Advisor)

PT 305: Introduction to Physical Therapy II (Guest lecturer)

PT 300: Independent Study (Research Advisor)

BY 405: Undergraduate Research in Bioscience (Instructor)

Aug 2020 – Present

Adjunct Professor

Saint Joseph's University, formerly University of the Sciences (Physical Therapy Dept.), Philadelphia, PA, United States

PT 505: Neuromuscular PT I

Aug 2018 – Nov 2018

Teaching Assistant

Temple University (Kinesiology Dept.), Philadelphia, PA, United States

KINS 2204: Motor behavior

Aug 2016 – May 2017

Guest Lecturer**Mar 2018**

Temple University (Physical Therapy Dept.), Philadelphia, PA, United States
NMS 9623 Programming

Teaching in higher education course**Summer 2014**

Temple University, Philadelphia, PA, United States

Completed the course on the use of research-based teaching methods to promote learning and effective teaching. Motivation and mastery in teaching; Adult development and meta-cognition; Integrated course design and developing learning goals; Designing assessment and exams to align with learning goals; Collaborative learning; Faculty identity and teaching practice

Assistant Lecturer (Professor)**Apr 2010 – Dec 2015**

University of Ghana (Physical Therapy Dept.), Accra, Ghana
PSTR 311: Neurorehabilitation
PSTR 302: Clinical Measurement and Instrumentation in Physical Therapy
PSTR 216: Introductory Physical Therapy (co-lecture)
PSTR 405: Dermatology and Burns in Physical Therapy

Research Assistant**Nov 2006 – Mar 2010**

University of Ghana (Physical Therapy Dept.), Accra, Ghana
PSTR 314: Cardiopulmonary and Intensive Care Physiotherapy
PSTR 404: Physiotherapy in Obstetrics and Gynaecology

RESEARCH EXPERIENCE**Graduate Student****Jan 2014 – Dec 2019**

Temple University (Physical Therapy Dept.), Philadelphia, PA, United States
Developed a rehabilitation protocol (i.e. a concurrent vestibular and postural training) to treat vestibular-related balanced disorders

Graduate Research Assistant– Motor-Action-Perceptual Lab**Jan 2014 – May 2017**

Temple University (Physical Therapy Dept.), Philadelphia, PA, United States
Worked with W.G. Wright (Ph.D.) on a Department of Defense Army Rapid Innovation Fund (\$1,178,000) for the Virtual Environment TBI Screening (VETS) study

Recruitment and management of research participants; Assisted in assessments and testing of over 212 healthy and concussed individuals; Data management, processing and analyses; Major studies involved– National Collegiate Athletic Association (NCAA), Traumatic Brain Injury [TBI] Assessment of Readiness using a gait Evaluation Test (TARGET); Virtual Environment TBI Screening (VETS); Created the VETS device to diagnose concussion symptoms and balance issues; Developed the TARGET test

Students' Research Coordinator**May 2011 – Dec 2013**

University of Ghana (Physical Therapy Dept.), Accra, Ghana

Organized students' research proposal presentations; Coordinated research activities for students, professors and external examiner; Organized students' research defence sessions

PUBLICATIONS AND PAPERS (Cited 229 times on ResearchGate)

1. Golzari, K., Boolani, A., Papadakis, Z., Garcia-Retortillo, S., Locke, E., McCarthy, R., **Appiah-Kubi, K.O.**, Kadry, A., Torad, A., Elwan, M. & Posada-Quintero, H. (2023). Cervical Erector Spinae Intermuscular Coordination while Using Noise Cancellation Headphones During Walking. In *International Journal of Exercise Science: Conference Proceedings* (Vol. 16, No. 2, p. 226).
2. Almajid, R., **Appiah-Kubi, K.**, Cipriani, D., & Goel, R. (2023). Dual-tasking Interference is Exacerbated Outdoors: A Pilot Study. *Frontiers in Sports and Active Living*, 5, 37. <https://doi.org/10.3389/fspor.2023.1077362>
3. **Appiah-Kubi, K. O.**, Laing, E., & Imtiaz, M. H. (2022). A Study Protocol to Evaluate the Effects of Vestibular Training on the Postural Control of Healthy Adults Using Virtual Reality. *Applied Sciences*, 12(23), 11937. <https://doi.org/10.3390/app122311937>
4. Giulia Mahoney, Joel Martin, Rebecca Martin, Chelsea Yager, Matthew Lee Smith, Zachary Grin, Christina Vogel-Rosbrook, Dylan Bradley, **Kwadwo Osei Appiah-Kubi** & Ali Boolani (2021). Evidence that feelings of energy and fatigue are associated differently with gait characteristics and balance: an exploratory study, *Fatigue: Biomedicine, Health & Behavior* 9(3), 125-138. <https://doi.org/10.1080/21641846.2021.1950405>
5. **Appiah-Kubi, K. O.**, Galgon, A., Tierney, R., Lauer, R., & Wright, W.G. (2020). Effects of Vestibular Training on Postural Control of Healthy Adults. *CommonHealth Journal*, 1(1), 31-36. <https://doi.org/10.15367/ch.v1i1.299>
6. **Appiah-Kubi, K. O.**, Galgon, A., Tierney, R., Lauer, R., & Wright, W.G. (2019). Effects of Vestibular Training on Postural Control of Healthy Adults (Doctoral dissertation, Temple University).
7. **Appiah-Kubi, K. O.**, & Wright, W. G. (2019). Vestibular training promotes adaptation of multisensory integration in postural control. *Gait & posture*, 73, 215-220. <https://doi.org/10.1016/j.gaitpost.2019.07.197>
8. **Appiah-Kubi, K.**, & Wright, W. (2018). Postural Training using Augmented Visual Feedback and Vestibular Activation in Healthy Adults. *Frontiers in Human Neuroscience* 12. <https://doi.org/10.3389/conf.fnhum.2018.227.00046>
9. Wright, W. G., McDevitt, J., Tierney, R., Haran, F. J., **Appiah-Kubi, K. O.**, & Dumont, A. (2017). Assessing subacute mild traumatic brain injury with a portable virtual reality balance device. *Disability and rehabilitation*, 39(15), 1564-1572. <https://doi.org/10.1080/09638288.2016.1226432>
10. McDevitt, J., **Appiah-Kubi, K. O.**, Tierney, R., & Wright, W. G. (2016). Vestibular and oculomotor assessments may increase accuracy of subacute concussion assessment. *International journal of sports medicine*, 37(09), 738-747. <http://dx.doi.org/10.1055/s-0042-100470>

11. McDevitt, J., **Appiah-Kubi, K. O.**, Tierney, R., & Wright, W. G. (2016, January). Sensitivity and specificity of sub-acute concussion detection may be increased with the addition of balance and visual-vestibular assessments. In *BRAIN INJURY*, 30 (5-6), 494-494. 530 WALNUT STREET, STE 850, PHILADELPHIA, PA 19106 USA: TAYLOR & FRANCIS INC.
12. Wright, W. G., McDevitt, J., & **Appiah-Kubi, K. O.** (2015, June). A portable virtual reality balance device to assess mild traumatic brain injury symptoms: A pilot validation study. In *Virtual Rehabilitation Proceedings (ICVR)*, 2015 International Conference on Virtual Rehabilitation (pp. 72-79). IEEE.
DOI: [10.1109/ICVR.2015.7358591](https://doi.org/10.1109/ICVR.2015.7358591)
13. Quartey, J.N.A. & **Appiah-Kubi, K.O.** (2014). Physiotherapy training in Ghana: awareness and prospects. In S. Antwi-Baffour et al. (Eds.), *Contributors of allied health sciences to healthcare delivery in Ghana*, 131-137. Digibooks Ghana Ltd.
14. Chohan, A., **Appiah-Kubi, K. O.**, Van Deursen, R., & Alanzi, D. (2013). Effect of the Benefoot walker on plantar pressure during walking in apparently healthy people. *Gait & Posture*, 38, S76-S77.
[10.1016/j.gaitpost.2013.07.162](https://doi.org/10.1016/j.gaitpost.2013.07.162)
15. Olawale, O. A., Jaja, S. I., Anigbogu, C. N., **Appiah-Kubi, K. O.**, & Jones-Okai, D. (2011). Exercise training improves walking function in an African group of stroke survivors: a randomized controlled trial. *Clinical rehabilitation*, 25(5), 442-450. <https://doi.org/10.1177/0269215510389199>
16. Bello, A. I., Asiedu, E. N., Adegoke, B. O., Quartey, J. N., **Appiah-Kubi, K. O.**, & Owusu-Ansah, B. (2011). Nosocomial infections: knowledge and source of information among clinical health care students in Ghana. *International journal of general medicine*, 4, 571.
17. Owusu-Ansah, B., Agoriwo, W.M., Bello A.I., **Appiah-Kubi, K.O.**, Quartey J.N. (2010). Compliance of physiotherapists to an objective assessment proforma in the evaluation of patients with chronic low back pain (LBP). *Ghana Journal of Physiotherapy*, 2(1), 30-35.
18. Olaogun M.O.B., Parkins G.E., Boama M.O., Addo E.R., D Avogo D., **Appiah-Kubi, K.O.** (2010). Comparative effects of transcutaneous electrical nerve stimulation, cryotherapy and placebo on pain, swelling and trismus following third molar tooth extraction. *Nigerian Journal of Medical Rehabilitation (NJMR)*, 15 (23): 38-43.
<https://doi.org/10.34058/njmr.v15i1.2.57>
19. Olawale, O.A., Bello, A.I., **Appiah-Kubi K.O.**, & S. Agyapong-Badu, S. (2009). Over-ground walking exercise training reduces blood pressure in adult patients with stroke: A Randomized Controlled Trial. *African Journal of Medicine and Medical Sciences*, 38(3), 279 – 286.
20. Quartey, J.N., Agbelie, C-M., Owusu-Ansah, B., Bello, A.I. & **Appiah-Kubi, K. O.** (2009). Content analysis of physicians' referrals to physiotherapy at Korle-Bu Teaching Hospital, Accra, Ghana. *Ghana Journal of Physiotherapy*, 1(1), 10-12.
21. Afu, C.S., **Appiah-Kubi, K.O.**, and Olawale, O.A. (2009). Pattern of common injuries among footballers: retrospective study of four professional football clubs in Greater Accra Region of Ghana. *Ghana Journal of Physiotherapy*, 1(1), 21-24.

22. Olawale, O. A., Jaja, S. I., Anigbogu, C. N., **Appiah-Kubi, K. O.**, & Jones-Okai, D. (2008). Effects of two exercise-training techniques on walking function in adult patients with stroke. *Nigerian quarterly journal of hospital medicine*, 19(2), 88-94.
23. **Appiah-Kubi, K.O.** & Olawale, O.A (2007). Therapeutic exercises and Transcutaneous Electrical Nerve Stimulation (TENS) in the treatment of chronic low back pain (LBP). *Ghana Journal of Allied Health Sciences*, 1, 30 – 35.

Under review

1. **Appiah-Kubi, K. O.**, Galgon, A., Tierney, R., Lauer, R., & Wright, W.G. (202X). Concurrent vestibular activation and postural training promote gaze stabilization and postural stability. *PLOS One*.

In preparation

1. Almajid, R., **Appiah-Kubi, K. O.**, & Boolani, A. (202X). Back Squat Maneuvers by Older Adults: Identifying Technique Errors to Optimize Safety.
2. Ackner, K., Miller, S., & **Appiah-Kubi, K. O.** (202X). The effects of head shake and weight shift training on patients with vestibular dysfunction: a scoping review.
3. **Appiah-Kubi, K. O.**, Senarathna, D., Mondal, S., & Boolani, Ali. (202X). Physical Inactivity Negatively Impacts Postural Balance but not Gait.

GRANTS AND AWARDS

Funded

CREST Graduate Research Fellowship Grant Proposals (Graduate support + 5,000; Co-PI) Re-design of a Low-power AI Vision Controlled Pediatric Prosthetic Hand	Dec 2023
NIH R25 BiOengineering Research Education to Accelerate Innovation in STEM (BOREALIS) Scholars program (Award # 1R25EB033080 - 01A1) Enhancing Science, Technology, Engineering, and Math Educational Diversity (ESTEEMED) Research Education Experiences (\$ 660,475; Potential mentor)	April 2023
Restore Center Pilot Project Award, Standard University (\$ 30,000; PI) Effects of concurrent vestibular activation and postural training on postural control using virtual reality [SPO #153996 for Clarkson University]	Feb 2023
National Institute of Health (NIH) Loan Repayment Program (\$ 50,000; PI) Effects of concurrent vestibular activation and postural training on postural control using virtual reality	Aug 2022
Undergraduate Faculty Research Awards, Clarkson University (\$ 5,000; PI) Effects of concurrent vestibular activation and postural training on postural control using virtual reality	Jan 2021
Doctoral Dissertation Completion Grant, Temple University (\$ 11,000) Grant was used to complete pilot study	Jan 2019

Temple University Visionary Research Fund Award (\$ 3,000) Grant was used to complete PhD dissertation	Dec 2017 – Dec 2018
Submitted	
CREST Graduate Research Fellowship Grant Proposals (Graduate support + 5,000; Co-PI) Development and Validity of a Low-cost Gait Sensory Interaction Test (GaitSIT)	Oct 2023
CREST Graduate Research Fellowship Grant Proposals (Graduate support + 5,000; Co-PI) Re-design of a Low-power AI Vision Controlled Pediatric Prosthetic Hand	Oct 2023
National Science Foundation Research Experiences for Undergraduates (\$ 465,000; Prospective faculty advisor) Bioengineering for Regenerative Medicine and Assistive Devices (BioMADE)	Sep 2023
National Science Foundation Major Instrumentation Research [NSF MRI Track 1] (\$ 100,000 – \$ 1,400,000 as PI). Clarkson University Internal call competition Acquisition of an instrumented treadmill system for rehabilitation research	Sep 2023
Clarkson Team Science Projects Planning Grant (Submitted as Co-PI) Determining the salient physiological and cognitive factors for keystroke dynamics-based user authentication	Feb 2022
Restore Center Pilot Project Program (\$ 30,000; Submitted as PI) Effects of concurrent vestibular activation and postural training on postural control using virtual reality	Oct 2020, 2021, 2022
National Institute of Health (NIH) Loan Repayment Program (\$ 50,000; PI) Effects of concurrent vestibular activation and postural training on postural control using virtual reality	Aug 2020, 2021
NIH R25 Enhancing Science, Technology, Engineering, and Math Educational Diversity (ESTEEMED) Research Education Experiences (\$ 660,475; Potential mentor) Bioengineering Research Education to Accelerate Innovation in STEM (BOREALIS) Scholars program	Jul 2021
Letter of Intent: Magistro Family Foundation Research Grant (\$ 50,000; Submitted as PI) Effects of concurrent vestibular activation and postural training on postural control using virtual reality	Jun 2021
C-STAR Pilot Project Program (\$ 25,000; Submitted as Co-PI) Reliability and clinical responsiveness of the VR-BESS for assessing sensory reweighting	Oct 2020
Undergraduate Faculty Research Awards, Clarkson University (\$ 5,000; PI) Effects of concurrent vestibular activation and postural training on postural control using virtual reality	Nov 2020

Awards

World Physiotherapy Congress (WPC) 2023

Jun 2023

Elsevier Journal Sponsored Award – Poster presentation from the North America Caribbean region

One-year free subscription to Physiotherapy Journal

Students Awards

Research and Project Showcase (RAPS)

Jul 2022

Best Undergraduate Poster Presentation in Biomedical, Biomolecular and Biosciences in CU RAPS program

Effects of Vestibular Training on Postural Control of Healthy Adults using Virtual Reality

Michaela Richey (McNair scholar)

EQUIPMENT MANUFACTURED**Balance Force Plate Equipment (Clarkson University IRB-IDE approved)**

Designed and manufactured a balance force plate equipment with assistance from Clarkson Engineering department. This relatively low-cost equipment is used to assess static and dynamic balance of research participants. The dynamic component assesses reactive balance in stance when the participant is perturbed in the anterior-posterior direction as the force plate rotates upwards or downwards around a horizontal fulcrum beneath the force plate

Nov 2022

CLINICAL EXPERIENCE**Part-time Practicing Physical Therapist**

Jan 2007 – Dec 2013

Korle-Bu Teaching Hospital, Accra, Ghana

Evaluated, treated and re-evaluated pediatric, geriatric, orthopedic, respiratory and neurological conditions associated with movement and functional activities;

Taught PT students on the floors and clinic during clinical rotation; Provided information on the awareness and prevention of various musculoskeletal disorders and disabilities to clients and the general public

Specific conditions: stroke, spinal cord injuries, peripheral nerve injuries, polyneuropathies, back pain, fractures, soft tissue injuries, osteoarthritis, rheumatoid arthritis, Erb's palsy, cerebral palsy, chronic bronchitis and tuberculosis.

Full-time Intern and Practicing Physical Therapist

Aug 2005 – Oct 2006

Korle-Bu Teaching Hospital, Accra, Ghana

Evaluated, treated and re-evaluated various physical therapy conditions in out-patients and in-patient settings; Supervised physical therapy students during clinical rotations

Specific conditions: stroke, spinal cord injuries, peripheral nerve injuries, polyneuropathies, back pain, fractures, soft tissue injuries, osteoarthritis, rheumatoid arthritis, Erb's palsy, cerebral palsy, chronic bronchitis and tuberculosis.

CONFERENCE PRESENTATIONS

Peer Reviewed Abstracts: Keynote Speaker

1. **Appiah-Kubi, K.O.**, Lain, E., Imtiaz M.H. (Dec 2022). A study protocol to evaluate the effects of vestibular training on the postural control of healthy adults using virtual reality. *2nd International Virtual Conference on Neuroscience, Brain Disorders and Therapeutics*, Delight Scientific Conferences, UK

Peer Reviewed Abstracts: Poster Presentation

1. **Appiah-Kubi, K. O.**, Shattuck, H., Bicknell, J., Laing, E., Jean Y., Adegoriolu, J., Cann A., Asante-Asamani, E., (Feb 2024). Concurrent headshake and postural training using virtual reality improves eye movement velocity: Preliminary data. *American Physical Therapy Association Combined Section Meeting (APTA CSM)*, Boston, Massachusetts
2. **Appiah-Kubi, K. O.**, Shattuck, H., Bicknell, J., Laing, E., VanLandeghem, J., Senarathna, D. (Nov 2023). Concurrent Headshake with Postural Training using Virtual Reality Improves Balance and Modifies Muscle Activation: Preliminary Data. *Society for Neuroscience (SfN)*, Washington, DC [Accepted]
3. **Appiah-Kubi, K. O.**, Galgon, A., Tierney, R., Lauer, R., & Wright, W.G. (Jun 2023). Concurrent Vestibular-Postural Training Promotes Postural Reflexes and Stability. *World Physiotherapy Congress, WP2023: 1722*, Dubai
4. **Appiah-Kubi, K.O.**, Barrios, N., Yager, C., Boolani, A. (Jul 2022). High sedentary behavior negatively impacts postural balance but not gait. *International Society of Posture Gait Research (ISPGR)*, Abstract 137863, Montreal, Canada
5. McCarthy, R., Locke, E., Kadry, A., Torad, A., Elwan, M., **Appiah-Kubi, K.O.**, Towler, C., Boolani, A. (Apr 2022). Associations Between Heart Rate and Skeletal Muscle Oxygen Saturation (SmO₂) in Upper and Lower Extremities During Self-Paced Walking. *Experimental Biology*, Abstract R6045 1151-APS, Philadelphia, PA
6. **Appiah-Kubi, K. O.** & Wright, W. G. (Jan 2019). Effects of vestibular training on postural control among healthy adults. *American Physical Therapy Association Combined Sections Meeting (APTA CSM)*, Washington, DC
7. **Appiah-Kubi, K. O.** & Wright, W. G. (Apr 2018). Vestibular training may improve postural control via vestibular adaptation in healthy young adults: a feasibility study. *College of Public Health Research Day*, Temple University, PA
8. **Appiah-Kubi, K. O.** & Wright, W. G. (Nov 2017). Effects of vestibular training on postural control among healthy adults. *Society for Neuroscience Annual General Meeting*, Abstract 231.25/EE26, Washington, DC
9. **Appiah-Kubi, K. O.** & Wright, W. G. (Jun 2017). Effects of vestibular training on postural control among healthy adults. *International Society for Posture and Gait Research (ISPGR)*, Abstract 3-W-116, Fort Lauderdale, FL
10. **Appiah-Kubi, K. O.** & Wright, W. G. (Apr 2016, 2017 & 2019). Effects of vestibular training on postural control among healthy adults. *College of Public Health Research Day*, Temple University, PA

11. **Appiah-Kubi, K. O.** & Wright, W. G. (Nov 2015). Effects of vestibular habituation during weight shifting training on postural control processing in healthy adults. *Brain Preparedness Research Day*, Temple University, PA
12. Dumont, A., **Appiah-Kubi, K.O.**, Dumont, M., & Wright, W.G. (Apr 2015). Feasibility of affordable custom-designed device with immersive virtual environment for postural assessment. *Brain Preparedness Research Day*, Temple University, PA
13. Wright, W.G., McDevitt, J., **Appiah-Kubi, K.O.** (Jul 2015). Using commercial technology to create a portable VR balance device: Assessing mTBI, ISPGR, Seville, Spain
14. **Appiah-Kubi, K. O.** & Wright, W. G. (Apr 2015). A portable virtual reality balance device to assess mild traumatic brain injury symptoms: a pilot validation study. *College of Public Health Research Day*, Temple University, PA
15. **Appiah-Kubi, K.O.**, van Deursen, R.W., Chohan, A. & Al-anazi, D.M. (Sep 2012). Effect of the Benefoot walker on plantar pressure during walking in apparently healthy adults. 21st Annual Meeting of ESMAC Stockholm, Sweden

Peer Reviewed Abstracts: Podium Presentation

1. **Appiah-Kubi, K. O.** & Wright, W. G. (Jun 2018). Postural training using augmented visual feedback and vestibular activation in healthy adults. *2nd International Neuroergonomics Conference*, Drexel University, PA
2. Yaro, Z. & **Appiah-Kubi, K.O.** (Sep 2012). Time and financial costs in the management of low back pain to patients at Korle-Bu Teaching Hospital, Accra, Ghana. *5th Annual Scientific Conference of the College of Health Sciences, University of Ghana*, Abstract 23, 42
3. Davor, F.S. & **Appiah-Kubi, K.O.** (Feb 2012). Effect of age, gender and leg dominance on quadriceps strength and range of motion at the hip and knee. *1st Annual Ghana Physiotherapy Association (GPA) Scientific Congress*, Abstract 23, 42, Accra, Ghana
4. Agyei, A.Y. & **Appiah-Kubi, K.O.** (Feb 2012). Association between habitual footwear and the prevalence of pes planus (flat foot) amongst female students in the University of Ghana. *1st Annual GPA Scientific Congress*, Accra, Ghana
5. Asomaning, F.O. & **Appiah-Kubi, K.O.** (Sep 2011). Influence of balance and flexibility on mobility in post hemiparetic stroke patients. *5th Annual Scientific Conference of the College of Health Sciences, University of Ghana*, Abstract 58, 77, Accra Ghana
6. Afriyei, N., Quartey, J.A., Lartey, A., **Appiah-Kubi, K.O.** & Owusu-Ansah, B. (Jul 2010). Assessment of the level of functional independence and the influencing factors in post-stroke patients. *8th Biennial World Confederation for Physical Therapy –Africa Congress*, Abstract 110, 24, Accra, Ghana
7. Wuver, S.N., Quartey, J.A., **Appiah-Kubi, K.O.**, Olaogun, M.O.B., Owusu-Ansah, B. & Bello A.I. (Jul 2010). Influence of Age, Sex and Body Mass Index on the Health-Related Quality of Life of Patients with Hip Replacement. *8th Biennial World Confederation for Physical Therapy –Africa Congress*, Abstract 151, 57, Accra, Ghana

8. Quartey, J.N.A., Lartey, A., Owusu-Ansah, B. & **Appiah-Kubi, K.O.** (Jul 2010). Quality of life among caregivers of stroke survivors in Accra, Ghana. *8th Biennial World Confederation for Physical Therapy – Africa Congress, Accra, Ghana*
9. Asomaning-Boakye, M., Quartey, J.N.A., Bello, A.I., Owusu-Ansah B. & **Appiah-Kubi, K.O.** (2010). Influence of hand dominance, sex and body mass index on hand grip strength in apparently healthy individual. *8th Biennial World Confederation for Physical Therapy –Africa Congress, Abstract 121, 33, Accra, Ghana*

PROFESSIONAL TRAINING PROGRAMS

1. Participant in the Parkinson’s Foundation Physical Therapy Faculty Program
Center for Neurorehabilitation at Boston University **June 2023**
2. Training in the Vestibular Rehabilitation: Theory, Evidence and Practical Application
Shirley Ryan Abilitylab (CEU = 31.50) **Mar 2023**
3. Accepted into the Parkinson’s Foundation Physical Therapy Faculty Program
Center for Neurorehabilitation at Boston University **Mar 2023**
4. Participant in the Training in Grantsmanship for Rehabilitation Research (TIGRR)
Workshop. Dept. of Rehabilitation Sciences, Medical University of South Carolina **Jan 2023**
5. Management of Patients with Cardiovascular and/or Pulmonary Disorders
Rehab Essentials (CEU = 2.10) **Dec 2022**
6. Acceptance into the Training in Grantsmanship for Rehabilitation Research (TIGRR)
Workshop. Dept. of Rehabilitation Sciences, Medical University of South Carolina **Sep 2022**
7. Connecting upper extremity biomechanics to functional activities
Integrated Clinical Experience (ICE) Learning Center **Mar 2022**
8. Interventions and Assessments Targeting Participation in Children and Adults with
Neurological Conditions. American Physical Therapy Association, Combined Sections
Meeting (APTA CSM; CEU = 0.20) **Mar 2022**
9. When Your Vestibular System Gets You Down: Treating Vestibular Dysfunction in
Individuals with Parkinson Disease. APTA CSM (CEU = 0.20) **Mar 2022**
10. Applying the Evidence: The Emerging Role of Vagus Nerve Stimulation Paired with
Stroke Rehabilitation. APTA CSM (CEU = 0.20) **Mar 2022**
11. Cardiovascular Autonomic Dysfunction in Parkinson's Disease, Implications for
Exercise and Clinical Practice in Neurological Rehabilitation. APTA CSM (CEU = 0.20) **Mar 2022**
12. Rethinking the Tools in the Toolbox? Evidence-Based Strategies to " Move Forward"
in Neurological Rehabilitation. APTA CSM (CEU = 0.20) **Mar 2022**
13. The Value of Post-Professional Residency, Fellowship, and PhD Training
APTA CSM (CEU = 0.20) **Mar 2022**

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| 14. Engaging in Research and Teaching After the DPT: A Conversation About Career Paths. APTA CSM | Mar 2022 |
| 15. When Sex Hurts: Why Christian Women Experience Higher Rates of Pain and What to Do. APTA CSM | Mar 2022 |
| 16. From Foe to Friend: Eccentric Training for the Plantar Flexors in Children with Cerebral Palsy. APTA CSM | Mar 2022 |
| 17. Analysis of sit to stand and early gait with a neurologically Impaired patient
ICE Learning Center | Feb 2022 |
| 18. PTAESIG: Emotional Intelligence: Foundational Skills for Student Success
APTA Learning Center (CEU = 0.10) | Sep 2021 |
| 19. Intervention Design to Optimally Progress Reactive Balance Training: Translating, PA
Research into Clinical Practice, UR Medicine, Thompson Health (CEU = 0.24) | Aug 2021 |
| 20. Strategies for building an inclusive environment in the clinic and the classroom
APTA Health Policy and Administration | Aug 2021 |
| 21. Hearing & balance mastermind seminar- Benign Paroxysmal positional vertigo
(evaluation and treatment). Health and Balance Academy | Dec 2020 |
| 22. Hearing & balance mastermind seminar- Video Impulse- VVOR and VORS, SHIMP
and Clinical (Part 2) (evaluation and treatment). Health and Balance Academy | Dec 2020 |
| 23. Hearing & balance mastermind seminar- Video Impulse test from basics to advanced
(Part 1). Health and Balance Academy | Oct 2020 |
| 24. Research Funding Symposium, Part 1: A Conversation with Funding Agencies (Part 1).
APTA CSM (CEU = 0.20) | Jan 2019 |
| 25. ACE Talk: Virtual Reality to Improve Mobility: Not Just Pretty Pictures
APTA CSM (CEU = 0.20) | Jan 2019 |
| 26. Academy of Neurologic PT Platform Session 1
APTA CSM (CEU = 0.20) | Jan 2019 |
| 27. Advances and Future Direction: International Vestibular Rehabilitation Conference
APTA CSM (CEU = 0.20) | Jan 2019 |
| 28. Geriatric Posture and Movement Analysis: Assessment to Treatment
APTA CSM (CEU = 0.20) | Jan 2019 |
| 29. A Forum on Movement System Diagnoses for Balance Dysfunction
APTA CSM (CEU = 0.20) | Jan 2019 |
| 30. Is the Proof in the Pudding? Psychometrics in Concussion Rehab
APTA CSM (CEU = 0.20) | Jan 2019 |
| 31. Traumatic Brain Injury & Protection Research Symposium, Temple University, PA | Oct 2018 |

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| 32. Electroencephalogram (EEG) training, Temple University, PA
Training on the D2™ Dynavision equipment for evaluating and training visual, cognitive and motor function including visual-motor reaction time, peripheral awareness, active ROM and dynamic balance | Jun 2018
Mar 2017 |
| 33. Training on the NeuroCom SMART Balance Master; sensory organization test (SOT), limits of stability, rhythmic weight shift and unilateral stance | 2016 |
| 34. 1 st Annual Concussion Summit, Temple University, PA | Jun 2015 |
| 35. Postgraduate certificate of advanced manual physical therapy in the musculoskeletal pain, Ghana | Jul 2013 |
| 36. Effective approach towards physical therapy treatment of neurological patients | Mar 2013 |
| 37. Facilitated a workshop organized by the department of physical therapy, Korle-Bu Teaching Hospital, Accra (Ghana). Evidence-based physiotherapy practice | Aug 2012 |
| 38. Certificate in spine pathology and implications for PTs, stroke rehabilitation, clinical education. Stepping with Faith Rehabilitation, Ghana | Jul 2012 |
| 39. Participant, 9th Biennial World Confederation for Physical Therapy–Africa Congress, Nairobi, Kenya | Jun 2012 |
| 40. Certificate in wheelchair prescription/assembly course. Worldmade Fit for Life– Humanitarian Services | Oct 2010 |
| 41. Certificate in ultra sound and neuro-modulation and pain management. Enraf Nonius and Universal Hospitals Group Ltd, Ghana | Sep 2010 |
| 42. Certificate in Emergency Care (Management of the critically ill, Mass casualty incidence management, CPR, Management of the Spine injured patient)/ Ghana | July 2010 |
| 43. Certificate in Research Proposal Writing Workshop. Ghana-Michigan Collaborative Health Alliance for Reshaping Training, Education, and Research (CHARTER), Ghana | Jun 2010 |
| 44. Certificate in Utilization of clinical outcome measures, Ghana | Feb 2010 |
| 45. Certificate in Medical Seminar. AfHf Hockey Africa Cup for Nations, Ghana | July 2009 |
| 46. Certificate in basic x-ray radiography. Ghana Physiotherapy Association, Ghana | Apr 2009 |
| 47. Certificate in Basic X-ray Radiography | Apr 2009 |
| 48. Swiss ACE Care Training and Care Consultancy (Understanding dementia, Mandatory training) Cardiff, United Kingdom | Mar 2008 |
| 49. Certificate in Internal Medicine, Surgery, Neuro-Rehabilitation, Intensive Care Unit and Burns, Ghana | Mar 2007 |

PROFESSIONAL SOCIETIES AND COMMITTEES

Reviewer, Applied Sciences	2023 – Present
Reviewer, International Journal of Environmental Research and Public Health (IJERPH)	2022 – Present
Reviewer, Prosthetics and Orthotics International	2022 – Present
Reviewer, Scientific Reports Journal	2021 – Present
Reviewer, Public Library of Science (PLOS) ONE Journal	2020 – Present
Reviewer, Journal of Physiological Anthropology (JPA)	2020 – Present
Reviewer, Brain Sciences	2020 – Present
Member, American Physical Therapy Association (APTA)	2018 – Present
Member, International Society for Posture & Gait Research (ISPGR)	2017 – Present
Member, Society for Neuroscience (SfN)	2017 – Present
Chair, Organizing Committee, 1st Biennial Ghana Physiotherapy Association (GPA) Scientific Congress, Ghana	2012
Abstract Reviewer for the 1 st Biennial GPA Scientific Congress	2012
Member, University of Ghana-Brown University Academic Partnership to Address HIV/AIDS (UBAP Committee), Curriculum Development	2011 – 2013
Member, 10 th Anniversary Committee, School of Allied Health Sciences, University of Ghana	2012
Secretary/Editor, World Confederation for Physical Therapy –Africa (WCPT-A) Newsletter	2011 – 2013
Restructuring curricula of courses in the Dept. of Physical therapy, University of Ghana (undergraduate and master's programs)	2011 – 2012
Abstract Reviewer for the 8th Biennial World Confederation for Physical Therapy –Africa (WCPT-A) Congress; Accra, Ghana	2012
Member, scientific sub-committee of World Confederation for Physical Therapists – Africa (WCPT-A), Accra, Ghana	2011 – 2013
Member of local organizing committee, 8th Biennial World Confederation for Physical Therapy –Africa Congress, Accra, Ghana	2010
Executive Member, Welfare Committee, School of Allied Health Sciences, University of Ghana	2010 – 2013
Assistant Secretary, Pain Association of Ghana (PAG)	2009 – 2012
Secretary, Ghana Journal of Physiotherapy	2009 – 2013

RESEARCH SUPERVISED

1. Amber Jones, Graduate student, Physical Therapy Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022 – Present**
2. Ariana Kelly, Graduate student, Physical Therapy Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022 – Present**
3. Shea Frady, Graduate student, Physical Therapy Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022 – Present**
4. Rawan Almadani, Graduate student, Physical Therapy Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022 – Present**
5. Molly Townsend, Graduate student, Physical Therapy Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022 – Present**
6. Camille Devereaux, Graduate student, Physical Therapy Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022 – Present**
7. Meredith James, Undergraduate student, Biology Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022**
8. Hailey Millington, Undergraduate student, Biology Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022 – Present**
9. Brittany LaBarge, Undergraduate student, Biology Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022 – 2023**
10. Jillian VanLandeghem, Undergraduate student, Biology Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022 – 2023**
11. Hannah Gigliotti, Undergraduate student, Biology Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2022**
12. Michaela Richey, Undergraduate student, Biology Dept., Clarkson University
Motion Analysis Research Lab. Lab training **2022**
13. Camilla Ketola, Graduate student, Electrical Engineering Dept., Clarkson University
Motion Analysis Research Lab. Lab training **2022**
14. Evan Laing, Graduate student, Mechanical Engineering, Clarkson University
(Co-supervisor)
Design of a Force Plate Integrated Perturbation Platform **2021 – 2023**
15. Ananda Cann, Graduate student, Physical Therapy Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2021 – 2023**
16. Yonellie Jean, Graduate student, Physical Therapy Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2021 – 2023**
17. Julianne Adegiorolu, Graduate student, Physical Therapy Dept., Clarkson University
Motion Analysis Research Lab. Research Assistant **2021 – 2023**
18. Taylor Hubert, Biology Undergraduate student, Physical Therapy, Clarkson University
Motion Analysis Research Lab. Research Assistant **2021 – 2022**

19. Alisha Arshad, Undergraduate student, Mechanical Engineering Dept, Clarkson University. Computerized Dynamic Posturography System Capstone Project (Co-advisor) **Spring 2021**
20. Anin Rahman, Undergraduate student, Mechanical Engineering Dept, Clarkson University. Computerized Dynamic Posturography System Capstone Project (Co-advisor) **Spring 2021**
21. Allison Coon, Undergraduate student, Mechanical Engineering Dept, Clarkson University. Computerized Dynamic Posturography System Capstone Project (Co-advisor) **Spring 2021**
22. Gabrielle Mullane, Undergraduate student, Mechanical Engineering Dept, Clarkson University. Computerized Dynamic Posturography System Capstone Project (Co-advisor) **Spring 2021**
23. Lauren Firllet, Undergraduate student, Mechanical Engineering Dept, Clarkson University. Computerized Dynamic Posturography System Capstone Project (Co-advisor) **Spring 2021**
24. Elena Sanchez, Undergraduate student, Mechanical Engineering Dept, Clarkson University. Computerized Dynamic Posturography System Capstone Project (Co-advisor) **Spring 2021**
25. Kathryn Ackner, Graduate student, Physical Therapy, Clarkson University Motion Analysis Research Lab. Research Assistant **2020 – 2022**
26. Shelby Miller, Graduate student, Physical Therapy, Clarkson University Motion Analysis Research Lab. Research Assistant **2020 – 2022**
27. Evan Laing, Graduate student, Mechanical Engineering, Clarkson University Motion Analysis Research Lab. Graduate Research Assistant **2021 – 2023**
28. Mark Jankowski, Graduate student, Psychology Dept., Temple University, Motion-Action-Perception Lab. Lab training (Vestibular study) **2018 – 2019**
29. Christopher Haslam, Graduate student, Kinesiology Dept., Temple University, Motion-Action-Perception Lab. Lab training (Vestibular study) **2018**
30. Avin Mathew, Undergraduate student, Kinesiology Dept., Temple University, Motion-Action-Perception Lab. Lab training (VETS study) **2016 – 2017**
31. Supervised 26 final year PT students' research projects (26 projects), Physical Therapy Dept., University of Ghana **2010 – 2013**

STUDENT ADVISEMENT

- | | |
|--|-----------------------|
| 1. Corrinne Smith, Graduate student, Physical Therapy, Clarkson University Advisee | 2022 – Present |
| 2. Emma Harrigan, Graduate student, Physical Therapy, Clarkson University Advisee | 2022 – Present |
| 3. Kayla Cudia, Graduate student, Physical Therapy, Clarkson University Advisee | 2021 – Present |
| 4. Molly Townsend, Graduate student, Physical Therapy, Clarkson University Advisee | 2021 – Present |
| 5. Hannah Lehman, Graduate student, Physical Therapy, Clarkson University Advisee | 2021 – Present |
| 6. Ariana Kelly, Graduate student, Physical Therapy, Clarkson University Advisee | 2021 – Present |
| 7. Amber Jones, Graduate student, Physical Therapy, Clarkson University Advisee | 2021 – Present |
| 8. Keegan Duprey, Graduate student, Physical Therapy, Clarkson University Advisee | 2021 – Present |
| 9. Rawan Almadani, Graduate student, Physical Therapy, Clarkson University Advisee | 2021 – Present |
| 10. Ridwana Huda, Graduate student, Physical Therapy, Clarkson University Advisee | 2021 – Present |

FACILITATOR/TRAINER

- | | |
|--|-------------|
| Trigno Inertial Measurement Unit & EMG system (Delsys Inc.) | |
| Ryan McCarthy, Undergrad, Biology Major, Clarkson University | 2020 |
| Nathalie Barrios, Undergrad, Psychology Major, Clarkson University | 2020 |

PROFESSIONAL LICENSURE

- | | |
|--|---------------------------|
| Member, American Physical Therapy Association (APTA) (#840326) | Nov 2022 – Present |
| Member, Ghana Physiotherapy Association (GPA) | Sep 2007 – Present |

CONSULTATION AND ADVISORY POSITIONS

- | | |
|---|----------------------------|
| Reliability and Clinical Responsiveness of the VR-BESS for Assessing Sensory Reweighting
For Christopher Burcal, PhD, ATC, Assistant Professor
School of Health and Kinesiology
University of Nebraska at Omaha, Omaha, Nebraska | Sep 2020 – Sep 2021 |
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SERVICE***Professional*****Advisor**

Brothers And Sisters In Christ (BASIC)
Student Organization, Clarkson University, NY

Fall 2023 - Present**Poster Presentations Judge**

Research and Projects Showcase (RAPS)
Clarkson University, NY

Summer 2023**Lab demonstration (Motion Analysis Lab) and tour of the School of Health Sciences for High School Students, Potsdam, NY**

School of Health Sciences, Clarkson University, NY

June 2023**Lab demonstration (Motion Analysis Lab) and tour of the School of Health Sciences for 8th graders from AA Kingston Middle School, Potsdam, NY**

School of Health Sciences, Clarkson University, NY

Apr 2023**Lab demonstration (Motion Analysis Lab) and tour of the School of Health Sciences for St. Lawrence-Lewis BOCES, NY**

School of Health Sciences, Clarkson University, NY

Feb 2023**Member, Search Committee for professor of practice, Center for Rehabilitation Engineering Science and Technology (CREST)**

Engineering Dept., Clarkson University, NY

2023**Chair, Search Committee for faculty position**

Physical therapy Dept., Clarkson University, NY

2023**Member, curriculum changes within the DPT program**

Physical therapy Dept., Clarkson University, NY

2023 – Present**Member, Search Committee for permanent chair**

Physical therapy Dept., Clarkson University, NY

2022**Member, Open House for High School Students**

School of Health Sciences, Clarkson University, NY

2022, 2023**Member, Center for Rehabilitation Engineering Science and Technology (CREST) Steering Committee**

Clarkson University, NY

2022 – Present**Member, Search Committee for interim chair/visiting professor**

Physical therapy Dept., Clarkson University, NY

2022**International Committee**

Clarkson University, NY

2021 – Present

International Presenter for a Research Seminar **Aug 2021 – Present**
 The Influence of Sensory Reweighting on Human Postural Control
 For the Ghana Physiotherapy Association (GPA), Ghana

Research Curriculum Committee **2020 – Present**
 Physical therapy Dept., Clarkson University, NY

Awards and Scholarship Committee **2020 – Present**
 Physical therapy Dept., Clarkson University, NY

Lab demonstration for DPT students **2016 – 2017**
 Physical therapy Dept., Temple University, PA
 NeuroCom SOT and other assessment modules

Volunteer, Human movement day for prospective masters' and Ph.D. students **Dec 2016**
 Neuromotor Science program, Temple University, PA
 Lab demonstration; discussions with prospective students

Volunteer, Peen-sponsored SfN BAW science exhibitions **Mar 2016**
 Franklin Institute, Philadelphia PA
 Poster, brainwaves and BCI; backyard brains EMG spiker box, Neuro Sky helicopter,
 Necomimi BCI device

Member, SAHS Career Outreach Committee **Dec 2011 – Dec 2013**
 School of Allied Health Sciences (SAHS), University of Ghana
 Giving talks on various programs to prospective students (high school graduates)

Community

Organizer, Spiritual and Social well-being of Africans **2023 – Present**
 Potsdam, NY
 Organize bi-monthly Bible Studies gatherings with free dinner for African students
 at Clarkson University and other Africans in the Potsdam-Canton area

Organizer and Convenor, Ghanaian Community **2022 – Present**
 Potsdam, NY
 Organize bi-yearly social gatherings for Ghanaian students at Clarkson University
 and other Ghanaians in the Potsdam-Canton area

**Church deacon in charge of Young & Young Adults' Ministries, Media and Literary
 Departments** **2017 – 2022**
 Resurrection Power & Living Bread Ministries Church, Bronx NY
 Set up policies and effective strategies to run the organization
 Organized Youth and Young Adults' summer camp programs

Organized and operating Food Pantry **2015 – 2020**
 Resurrection Power & Living Bread Ministries Church, Bronx NY

Served as chair of food pantry planning committee
Provided food to the community on weekly basis (on average 60 people/week)

Vice president of Young Adults' ministry

2015 – 2017

Resurrection Power & Living Bread Ministries Church, Bronx NY
Organized educational, leadership and training programs for young adults in the community

Pre-Youth Sunday School Teacher

2014 – 2021

Resurrection Power & Living Bread Ministries Church, Bronx NY
Taught kids (aged 12 – 16 years) effective life principles and leadership skills every Weekend; Planning committee member for Children's summer camp programs

Guest interviewee on maintaining a healthy back (spine)

Dec 2011

Ghana TV (GTV Breakfast show)

Youth executive leader of Youth ministry

2006 – 2013

Resurrection Power & Living Bread Ministries Church, Accra, Ghana
Organized educational, leadership and training programs for youth in the community