

Edward Ofori, Ph.D

Contact Info

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Education & Training

- 2013-2015 **Postdoctoral Training in Neuroimaging & Parkinsonism**
University of Florida
- 2009-2013 **Doctor of Philosophy in Kinesiology**
Area of Study: Biomechanics & Motor Control
University of Illinois at Urbana Champaign
- 2009-2011 **Master of Science in Statistics**
University of Illinois at Urbana-Champaign
- 2006-2008 **Master of Science in Kinesiology**
Area of Study: Motor Control
University of Illinois at Urbana-Champaign
- 2000-2004 **Bachelor of Science in Biomedical Engineering**
Minor: Business Administration
University of Tennessee at Knoxville
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Professional Experience

- 2018-present **Assistant Professor (tenure-track)**, College of Health Solutions
Director, Pathomechanics & Neuroimaging Lab
Arizona State University, Phoenix, AZ
- 2015-2018 **Research Assistant Professor (non-tenure track)**, Department of
Applied Physiology & Kinesiology
Member of Laboratory of Rehabilitation Neuroscience
Investigator 1Florida Alzheimer's Disease Research Center
University of Florida, Gainesville, FL
- 2011-2012 **Visiting Instructor**, Department of Kinesiology and Community Health

Courses: Biomechanics of Human Movement, Coordination of Control & Skill, Experience in Kinesiology Research, Clinical Applications in Biomechanics, Basic Analysis of Human Movement
University of Illinois at Urbana-Champaign,

- 2011-2012 **Program Assistant for Ronald E. McNair Programs**, Office of Minority Student Affairs
University of Illinois at Urbana-Champaign
- 2006-2011 **Graduate Assistant**, Office of Minority Student Affairs,
University of Illinois at Urbana-Champaign
- 2005-2011 **Teaching Assistant**, Department of Kinesiology & Community Health
University of Illinois at Urbana-Champaign
- 2007-2010 **Research Assistant**, Department of Speech and Hearing Science
Center for Health, Aging, and Disability Grant
University of Illinois at Urbana-Champaign
- 2005-2008 **STEM Academic Tutor**, Division of Intercollegiate Athletics
University of Illinois at Urbana-Champaign
- 2004-2005 **Statistical Assistant**, As You Wish Consulting

Major Research Interests

1. Parkinson's disease and related disorders
 2. Alzheimer's Disease and related dementias
 3. Multimodal imaging
 4. EEG and Electrophysiology
 5. Perception and Task Performance
 6. Complexity and Dynamical Systems
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Research Funding

As Principal Investigator/Co-PI (status):

Total Funding Pursued: \$1,310,420

1. Free-water imaging of the temporal lobe along the Alzheimer's disease continuum. University of Florida. 2018-2021. \$60,000. (*declined*)
2. Diabetes as a risk factor for dementia in Hispanic Floridians. 1Florida Alzheimer's Disease Research Center. \$40,000 (*not funded*)

3. Free-water Imaging of Subtypes along the Alzheimer's Disease Continuum. NIA K01. 2017-2022. \$473,840. (*not funded*). Score: 35, no resubmission.
4. Entropy of resting brain activity in Parkinson's disease and atypical parkinsonism. NIH F32. 2014-2016. \$696,580.00. (*not funded*) Score: NC

As Co-Investigator/Key Personnel/Consultant

Total Funding Awarded: \$ 9,294,119 [PI/Co-PI Name]

1. Consortium for Diagnostic Algorithm with Novel Markers in Early Alzheimer's Disease. State of Florida. 2016-2017. \$57,119 [DE Vaillancourt]
2. R01NS058487-06A1. Role of the Cortex and Cerebellum in Visually-Guided Motor Behavior. NINDS \$1,875,000. 2015-2020 [DE Vaillancourt]
3. P50 AG047266-01A1. University of Florida-Mt. Sinai Medical Center AD Research Center. NIH \$7,362,000, 2015-2020 [TE Golde]
4. 1 R01 EB022917. Complexity Toolbox with new modules. NIH \$750,000, 2016-2019 [MS Cohen]

Peer-Reviewed Journal Articles

Note: Listed from most-recent, numbered in descending order

29. Yang J, Archer DB, Burciu RG, Müller MLTM, Roy A, Ofori E, Bohnen NI, Albin RL, Vaillancourt DE. (2019). Multimodal dopaminergic and free-water imaging in Parkinson's disease. *Parkinsonism & Related Disorders*, *in-press* [PMID: 30639168]
28. Chung JW, Burciu RG, Ofori E, Coombes SA, Christou EA, Okun MS, Hess CW, Vaillancourt DE. (2018). Beta-band oscillations in the supplementary motor cortex are modulated by levodopa and associated with functional activity in the basal ganglia. *Neuroimage Clinical*, 19:559-571 [PMID: 29984164].
27. Ofori, E., Shim J., Sosnoff JJ (2018). The influence of lower leg configurations on muscle force variability. *Journal of Biomechanics*, 71:111-118 [PMID: 29475750].
26. Burciu, RG., Ofori, E., Archer D.B., Wu S.S., Pasternak, O., McFarland, N.R., Okun, M.S., Vaillancourt, D.E. (2017). Progression marker of Parkinson's disease: a 4-year multi-site imaging study. *Brain*, 140(8): 2183-2192 [PMID: 28899020].

25. **Ofori E**, Krismer F, Burciu RG, Pasternak O, McCracken JL, Lewis MM, Du G, McFarland NR, Okun MS, Poewe W, Mueller C, Gizewski ER, Schocke M, Kremser C, Li H, Huang X, Seppi K, Vaillancourt DE. (2017). Free water improves detection of changes in the substantia nigra in parkinsonism: A multisite study. *Movement Disorders*, 32(10): 1457-1464 [PMID: 28714593].
24. Burciu RG, Hess CW, Coombes SA, **Ofori E**, Shukla P, Chung JW, McFarland NR, Wagle Shukla A, Okun MS, Vaillancourt DE. (2017). Functional activity of the sensorimotor cortex and cerebellum relates to cervical dystonia symptoms. *Human Brain Mapping*, 38(9): 4563-4573. [PMID: 28594097]
23. Chung, J.W., Burciu, R.G., **Ofori, E.**, Shukla, P., Okun, M.S., Hess, C.W., Vaillancourt, D.E., (2017) Parkinson's disease diffusion MRI is not affected by acute antiparkinsonian medication. *NeuroImage Clinical*, 15:417-421 [PMID: 28275542]
22. DeSimone J.C., Febo M., Shukla, P., **Ofori E.**, Colon-Perez L., Li Y., Vaillancourt D.E. (2016) In vivo imaging reveals impaired connectivity across cortical and subcortical networks in a mouse model of DYT1 dystonia. *Neurobiology of Disease* [PMID: 27404940]
21. Burciu RG, Chung JW, Shukla P, **Ofori E.**, McFarland NR, Okun MS, Vaillancourt DE (2016). Functional MRI of disease progression in Parkinson's disease and atypical parkinsonian syndromes. *Neurology* [PMID: 27421545]
20. Chung, J., **Ofori, E.****, Misra, G., Hess, C.W., Vaillancourt, D.E (2016). Beta-band activity and connectivity in sensorimotor and parietal Cortex are important for accurate motor performance. *NeuroImage* [PMID: 27746389]**Co-first author
19. Kang, N., Christou, E.A., Burciu, R.G., Chung, J.W., DeSimone, J.C., **Ofori, E.**, Ashizawa, T., Subramony, S.H., Vaillancourt, D.E. (2016). Sensory and motor cortex function contribute to symptom severity in spinocerebellar ataxia type 6. *Brain Structure and Function* [PMID: 27352359]
18. Burciu, R.G., **Ofori, E.**, Shukla, P., Pasternak, O., Chung, J.W., McFarland, N.R., Okun, M.S., Vaillancourt, D.E. (2016). Free-water and BOLD imaging changes in Parkinson's disease patients chronically treated with MAO-B inhibitor. *Human Brain Mapping* [PMID: 27089850]
17. Misra, G., **Ofori, E.**, Chung, J.W., Coombes, S.A. (2016). Pain-related suppression of beta oscillations facilitate voluntary movement. *Cerebral Cortex* [PMID: 26965905]
16. Banerjee, M., Chakraborty, R., **Ofori, E.**, Vaillancourt, D.E., Vemuri, B.C. (2015). Nonlinear regression on Riemannian manifolds and its applications to neuro-image analysis. *Medical image computing and computer assisted intervention*, 9349, 719-727[PMID: 27110601]

15. Planetta, P.J., **Ofori, E.**, Shukla, P., Burciu, R.G., Pasternak, O., Okun, M.S., Vaillancourt, D.E. (2016). Free-water diffusion MRI in Parkinson's disease and atypical Parkinson's disease. *Brain*, 139(2), 495-508 [PMID: 26706348]
14. **Ofori, E.**, Pasternak, O., Planetta, P.J., Burciu, R.G., Snyder, A.F., Febo, M., Golde, T.E., Okun, M.S., & Vaillancourt, D.E. (2015). Increased free-water in the substantia nigra of Parkinson's disease: a single-site and multi-site study. *Neurobiology of Aging*, 36(2):1097-1104 [PMID: 25467638]
13. **Ofori, E.**, Coombes, S.A., Vaillancourt, D.E. (2015) 3D cortical electrophysiology of ballistic upper limb movement in humans. *NeuroImage*, 115:30-41 [PMID: 25929620]
12. **Ofori, E.**, Pasternak, O., Planetta, P.J., Li, H., Burciu, R.G., Snyder, A.F., Lai, S., Okun, M.S., Vaillancourt, D.E. (2015). Longitudinal changes in free-water within the substantia nigra of Parkinson's Disease. *Brain*, 138(Pt 8):2322-31 [PMID: 25981960]
**Editors Choice Award
11. Burciu, R.G., **Ofori, E.**, Shukla, P., Snyder, A.F., Planetta, P.J., Li, H., Hass, C., Okun, M., McFarland, N., Vaillancourt, D.E. (2015). Distinct patterns of brain activity in Progressive Supranuclear Palsy and Parkinson's Disease. *Movement Disorders*, 30(9): 1248-1258 [PMID: 26148135]
10. **Ofori, E.**, Du, G., Babcock, D., Huang, X., Vaillancourt, D.E. (2015). Parkinson's Disease Biomarkers Program Brain Imaging Repository. *NeuroImage*, 124:1120-1124 [PMID 25976927].
9. Hess, C.W., **Ofori, E.**, Akbar, U., Okun, M.S., Vaillancourt, D.E. (2013). The evolving role of diffusion magnetic resonance imaging in movement disorders. *Current Neurology and Neuroscience Reports*, 13(11):400.
8. Ward, A.M., Loucks, T.M., **Ofori, E.**, & Sosnoff, J.J. (2013). A direct comparison of short-term audiomotor and visuomotor memory. *Motor Control*, 18(2):127-45.
7. Bronson-Lowe, C.R., Loucks, T.M., **Ofori, E.**, & Sosnoff, J.J. (2013). Aging effects on sensorimotor integration: a comparison of effector systems and feedback modalities. *Journal of Motor Behavior*, 45(3), 217-240.
6. Loucks, T. M., **Ofori, E.**, & Sosnoff, J. J. (2012) Force control under auditory feedback: effector differences and auditory memory. *Journal of Perceptual and Motor Skills.*, 114(3), 915-935.
5. **Ofori E.**, Loucks, T.M.J., Sosnoff, J.J. (2012). Visuomotor and audiomotor processing in continuous force production of oral and manual Effectors. *Journal of Motor Behavior*, 44(2), 87-96.
4. **Ofori E.**, Samson, J.M., & Sosnoff, J.J. (2010). Age-related differences in force variability and visual display. *Experimental Brain Research*, 203(2), 299-306.

3. Loucks T.M.J., **Ofori E.**, Grindrod C.M., De Nil L.F., Sosnoff JJ. (2010). Auditory motor integration in oral and manual effectors. *Journal of Motor Behavior*, 42(4), 233-239.
2. Heffernan KS., Sosnoff JJ., **Ofori E.**, Jae SY., Baynard T., Collier, S.R., Goulopoulou S., Figueroa, A., Woods, J.A., Pitetti, J.H., & Fernhall, B. (2009). Complexity of force output during static exercise with Down Syndrome. *Journal of Applied Physiology*, 106, 1227-33.
1. Bemis DA., Jones RD., Hiatt LE., **Ofori E.**, Rohrbach BW., Frank LA., Kania SA. (2006). Comparison of tests to detect oxacillin resistance in *Staphylococcus intermedius*, *Staphylococcus schleiferi*, and *Staphylococcus aureus* isolates from canine hosts. *Journal of Clinical Microbiology*, 44 (9), 3374-3376.

Peer-Reviewed Presentations

Note: Listed from most-recent, numbered in ascending order

1. Chung JW, Burciu RG, **Ofori E**, Shukla P, Okun MS, Hess CW, Vaillancourt DE. *Movement-related beta-band desynchronization in supplementary motor area is reduced by anti-parkinsonian medication and relates to the velocity of upper limb movement in Parkinson's disease*. Annual Meeting of the Society for Neuroscience, Washington DC, 2017
2. Vaillancourt DE, Burciu RG, **Ofori E**, Archer DB, Wu SS, Pasternak O, McFarland NR, Okun MS. *Applications of free-water diffusion MR imaging to parkinsonism*. Annual Meeting of the National Institute of Neurological Diseases and Stroke - Parkinson's Disease Biomarker Program, Bethesda, MD, 2017.
3. Chung JW, Burciu RG, **Ofori E**, Okun MS, Hess CW, Vaillancourt DE. *Desynchronization in the supplementary motor area is reduced by dopaminergic medication and relates to the velocity of upper limb movement in Parkinson's disease*. Progress in Motor Control XI, Miami, FL, 2017.
4. Burciu RG, **Ofori E**, Archer DB, Wu SS, Pasternak O, Okun MS, Vaillancourt DE. *An imaging progression marker for Parkinson's disease: a 4-year multicentre longitudinal study of substantia nigra free-water*. Annual Meeting of the International Society for Magnetic Resonance in Medicine, Honolulu, HI, 2017.
5. Chung JW, Burciu RG, Ofori E, Shukla P, Okun MS, Hess CH, Vaillancourt DE. *Parkinson's disease diffusion MRI is not affected by acute antiparkinsonian medication*. D. K. Stanley Research Symposium, Gainesville, FL, 2017.
6. Burciu RG, Shukla P, **Ofori E**, Chung JW, Hess CW, McFarland NR, Wagle Shukla A, Okun MS, Vaillancourt DE. *Functional and free-water diffusion MR imaging following a single low dose of trihexyphenidyl in patients with cervical dystonia*. Annual Meeting of the Society for Neuroscience, San Diego, CA, 2016.

7. **Burciu RG, Ofori E, Shukla P, Pasternak O, Chung JW, DeSimone J, Hess CW, McFarland NR, Wagle Shukla A, Okun MS, Vaillancourt DE.** *Motor-related brain changes associated with acute administration of trihexyphenidyl in patients with cervical dystonia.* 20th International Congress of Parkinson's Disease and Movement Disorders (MDS), Berlin, Germany 2016.
8. **Burciu RG, Ofori E, Shukla P, Pasternak O, Chung JW, McFarland NR, Okun MS, Vaillancourt DE.** *In vivo nigrostriatal changes associated with MAO-B inhibitor therapy in Parkinson's disease.* Annual Meeting of the Society for Neuroscience, Chicago, IL, 2015.
9. **Burciu RG, Chung JW, Shukla P, Ofori E, McFarland NR, Okun MS, Vaillancourt DE.** *Longitudinal changes in basal ganglia and cortex using task-based fMRI in early Parkinson's disease.* Annual Meeting of the Society for Neuroscience, Chicago, IL, 2015.
10. **Chung, J.W., Ofori, E., Vaillancourt, D.E.,** (April 2015). Visual Gain Reduces Movement Error by Enhancing Beta-band Desynchronization in the Sensorimotor Cortex. Neural Control of Movement, Charleston, SC
11. **Ofori, E., Pasternak, O., Planetta, P.J., Birciu, R.G., Snyder, A.F., Febo, M., Golde, T.E., Okun, M.S., Vaillancourt, D.E.** (2014). Increased extracellular free-water in the substantia nigra of Parkinson's disease
12. **Burciu, R.G., Shukla, P., Ofori, E., Snyder, A.F., Planetta, P.J., Hass, C., Okun, M., McFarland, N., Vaillancourt, D.E.** (2014). Bimanual dexterity and gait related to functional and structural brain differences between progressive supranuclear palsy and Parkinson's disease.
13. **Misra, G., Ofori, E., Chung, J., Coombes, S.A.** (2014). High Density Electroencephalography (EEG) correlates of pain-related changes in upper limb movements. Society for Neuroscience, Washington, D.C
14. **Bronson-Lowe, CR., Loucks, T.M., Ofori, E., Sosnoff, J.J.** (2013). Aging effects on variability of force output in the lip. Dysphagia Research Society's Annual Meeting, Seattle, WA
15. **Ofori, E., Bronson-Lowe, CR., Sosnoff, JJ & Loucks, T.M.J** (June 2012). Age-related differences in force control under visual and auditory feedback. North American Society for the Psychology of Sport and Physical Activity National Conference, Honolulu, HI
16. **Ofori, E., Holtrop, J., Bailey, A., Sutton, B., & Loucks, T.M.J** (June 2012). Neural correlates of manual and oral movements in young and older adults. North American Society for the Psychology of Sport and Physical Activity National Conference, Honolulu, HI
17. **Ofori, E., Loucks, T.M., Carlton, L.G., Sosnoff, J.J.,** (June 2011). Auditory and Visual Feedback in Oral and Manual Effectors. Speech Production Workshop, University of Illinois at the Beckman Institute for Advanced Science and Technology, Urbana, IL
18. **Ofori, E., Shim, J., Sosnoff, J.** (July 2011). Angle Differences in Modeling Force Variability across Multiple Muscular Contractions of the Lower Limb. Progress in Motor Control VIII, Cincinnati, OH

19. Ofori, E., Sosnoff, J.J, Morrison, S., Boes, M.K., Pula, J.H., & Motl, R.W., (June 2011) Tremor and Multiple Sclerosis. North American Society for the Psychology of Sport and Physical Activity National Conference, Burlington, VT
20. Kickert, A., Lim, J., Carlton, M.J., Ofori, E., & Carlton, L.G. (October 2010). Coordination of head and eye movements in free-throw shooting. Canadian Society for Psychomotor Learning and Sport Psychology, National Conference, Ottawa, ON
21. Ofori, E., Davis, J., Lim, J., Kickert, A., & Carlton, L.G. (October 2010). Coordination of head and eye movements in free-throw shooting. Canadian Society for Psychomotor Learning and Sport Psychology, National Conference, Ottawa, ON
22. Loucks, T. M., Ofori, E. & Sosnoff, J. J., (June 2010) Sensory Mechanisms for Fine Force Control. Integrative Neural Systems Underlying Vital Aerodigestive Tract Functions Conference, Madison, WI
23. Loucks, T.M., Ofori, E., C.M., De Nil L.F., Sosnoff JJ (June 2010). Auditory motor integration for manual and oral effectors. North American Society for the Psychology of Sport and Physical Activity National Conference, Tucson, AZ
24. Ofori, E., Loucks, TMJ, Carlton, LG, Sosnoff, JJ (June 2010). Auditory and Visual Feedback in Oral and Manual Force Control. North American Society for the Psychology of Sport and Physical Activity National Conference, Tucson, AZ
25. Ofori, E., Butler, JM, Serio, SD, Wessels, KK, & Sosnoff, JJ (November 2009). Pain and Muscular Strength in Manual Wheelchair Users. Canadian Society for Psychomotor Learning and Sport Psychology, National Conference, Toronto, ON
26. Sosnoff JJ., Ofori E., Knapik D., Grinrod CM., De Nil LF., Ambrose NG, Carlton LG, & Loucks T. (October 2009). Auditory Motor Memory. Society of Neuroscience, Chicago, IL
27. Ofori, E., Samson, JM, Sosnoff JJ. (June 2009). Visual Display and Age-Related Differences in Force Production. North American Society for the Psychology of Sport and Physical Activity National Conference, Austin, TX
28. Ofori, E., Sosnoff JJ, & Carlton, LG, (May 2009). Force Variability due to Strength Differences in Discrete and Continuous Force Control Tasks. American College of Sports Medicine, National Conference, Seattle, WA.
29. Ofori, E., & Heffernan, KS, Fernhall, B., & Sosnoff, JJ, (June 2008). Force Variability and Down Syndrome. North American Society for the Psychology of Sport and Physical Activity, National Conference, Niagara Falls, ON.
30. Ofori, E., Sosnoff, JJ., & Carlton, LG. (June 2008). *The Relationship between Discrete and Continuous Force Variability*. North American Society for the Psychology of Sport and Physical Activity, National Conference, Niagara Falls, ON
31. Ofori, E., Heffernan, KS, Fernhall, B, & Sosnoff JJ, (May 2008). *Muscular Weakness and Force Variability in Individuals with Down Syndrome*. American College of Sports Medicine, National Conference, Indianapolis, IN
32. Ofori, E., & Sosnoff JJ, (June 2007). *Does Discrete Error Impact Continuous Force Production?* North American Society for the Psychology of Sport and Physical Activity, National Conference, San Diego, CA.
33. Sosnoff JJ, Jang, J & Ofori, E. (October 2006). *The neuromuscular correlates of the structure of force variability*. Society of Neuroscience, Atlanta, GA.

Invited Presentations

Note: Listed and numbered in chronological order

1. *3D Electrocortical Activity of Upper Limb Movements: Velocity and Distance Effects*. 1st Annual Motor Neuroscience Summit, University of Florida, Gainesville, USA. Nov 22, 2013.
2. *Free-water imaging in Aging, Parkinson's Disease, and Alzheimer's Disease*. Kinesiology and Community Health Colloquium series, University of Illinois at Urbana-Champaign, Urbana, IL, April 28, 2017.
3. *Reflections from Pre-College Programs at Tennessee*. Engineering Diversity Programs 45th Anniversary, UTK Tickle College, University of Tennessee at Knoxville, Knoxville, TN November 3, 2019
4. *Diffusion Imaging Applications in Alzheimer's Disease*. Alumni Speaker Series, University of Tennessee at Knoxville, Knoxville, TN November 3, 2019

Instructional Activities (Selected)

Research Project Supervision/Mentor Experiences

1. Sarah Hovey, BioDex and Eye Tracking for Improvements in Task Performance, Department of Kinesiology & Community Health, University of Illinois at Urbana-Champaign

Thesis Committees [**Role Served**]

Undergraduate Honors:

1. Johanna McCracken (2016). Applied Physiology and Kinesiology, “Longitudinal diffusion changes in subcortical and cortical brain areas of Parkinsonism”, University of Florida [**Chair**]
2. Leah Mulholland (2017). Applied Physiology and Kinesiology, “Cortical changes in bilingual and monolingual individuals across the Alzheimer’s clinical continuum”, University of Florida [**Chair**]

Dissertation Committees [Role Served]

1. Gretchen Roman (2018). College of Health Solutions, “Upper Extremity Biomechanics in Native and Non-Native Singers”, Arizona State University [**Committee**]

Guest Lectures

1. “Angular Kinematics: Clinical and Practical Applications” (2016): University of Florida
2. “EEG: Capture and Share the Brain’s Moments” (2015): University of Florida

3. “Pathomechanics & NeuroImaging Lab Mission” (2018): Arizona State University (2 x)
4. “Biomechanics: Insights & Applications” (2018): Arizona State University

Service Activities (Selected)

Adhoc Journal reviewer (**indicates more than 3x):

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| 1. Brain** | 14. Biomedical Research International |
| 2. NeuroImage** | 15. Experimental Physiology |
| 3. Neurology | 16. Motor Control** |
| 4. Alzheimer’s Research & Therapy** | 17. Journal of Motor Behavior** |
| 5. Movement Disorders** | 18. Human Movement Science** |
| 6. Scientific Reports | 19. Journal of Applied Biomechanics |
| 7. Neuroscience | 20. Journal of Biomechanics |
| 8. Gait & Posture | 21. Journal of Neurophysiology |
| 9. Clinical Neurophysiology | 22. Institute of Electrical and Electronics Engineers: Transactions of Haptics |
| 10. PlusOne | 23. European Journal of Sport Science |
| 11. Neuroscience Letters** | |
| 12. Experimental Brain Research** | |
| 13. Physiological Measurement** | |

University affiliated/Community Organizations

1. Running Backs Coach, PK Yonge Developmental School, 2018
2. Alachua County School Volunteer Program. Topic of Interest: Magnets; (2015-2018)
3. National High Magnetic Field Laboratory. Magnet Exploration Elementary School Outreach Speaker (2015-2018)
4. Machen Scholar Life Coach at the University of Florida (2015-2016)
5. Chapter Advisor for African-American’s in Pre-Health at the University of Illinois (2011-2012); Note: Won Organization of the Year 2012 Under Supervision
6. Graduate Record Examination Course Instructor (Quantitative Section) for Ronald McNair Program at University of Illinois at Urbana-Champaign (2010)
7. Human & Health Performance College Marshall for Summer 2017 Graduation

University Committees:

1. Research Program Coordinator - Kinesiology and Community Health position, Fall 2011
2. Retention & Success for the Office of Minority Student Affairs, Spring 2011
3. 2011 Illinois Summer Research Symposium University of Illinois Graduate Collage

4. Teaching Equipment Fee Committee 2010 in the Department of Kinesiology and Community Health
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Awards/Recognition/Certificates

Note: Listed in chronological order

1. Departmental Engineering Scholarship, The University of Tennessee at Knoxville (2000-2002)
 2. African-American Achiever's Scholarship, The University of Tennessee at Knoxville (2000-2004)
 3. Ronald E McNair Summer Fellowship, The University of Tennessee at Knoxville (2004)
 4. Named 10 times to the incomplete list of teachers ranked excellent by students 2006-2012. Student course evaluations from students normally range from 4.4 to 4.9 out of 5.0.
 5. National Instruments Certified LabView Associated Developer (2010-2012)
 6. Progress in Motor Control, International Society of Motor Control (2011)
 7. McKnight Brain Institute Fellow, The University of Florida (2014-2015)
 8. BJ & Eve Wilder Fellowship in Alzheimer's Disease, The University of Florida (2015-2016)
 9. UCLA Advanced Neuroimaging Training Program Fellowship, The University of California at Los Angeles (2016)
 10. 1Florida Alzheimer's Disease Research Center Fellow (2016-2017)
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Professional Affiliations (Selected)

1. National Society for Black Engineers (2000-2005)
 2. Biomedical Engineering Society-UTK Chapter (2003-2005)
 3. North American Society for the Psychology of Sport and Physical Activity (2006-2011)
 4. LabVIEW Advanced Virtual Architects
 5. American College of Sports Medicine (2007-2010)
 6. International Society of Motor Control (2011-2013)
 7. Canadian Society for Psychomotor Learning and Sports Psychology (2007, 2009, 2010)
 8. Society for Neuroscience (2014-2016)
 9. Neural Control for Movement (2015-2017)
 10. American Academy of Neurology(2019-present)
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Software/Technological/Programming Skills (Selected)

Note: Parenthesis indicate years of use/experience

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|--------------------|---------------------|
| 1. SPSS (19 years) | 3. SYSTAT (2 years) |
| 2. R (6 years) | 4. SAS (5 years) |

5. MatLab (16 years)
6. Final Cut Pro (8 years)
7. Adobe Creative Cloud (11 years)
8. EEGLAB (6 years)

9. Time series analysis (14 years)
10. Various Imaging software (6+ years)