

NELSON A. GLOVER

glover.nelson.a@gmail.com

EDUCATION

B.S. University of Maryland, Baltimore County – Mechanical Engineering	3.78 GPA
M.S. The Ohio State University – Mechanical Engineering	3.76 GPA
Ph.D. in Progress, The Ohio State University – Mechanical Engineering	3.76 GPA

MANUSCRIPTS

Nelson A Glover, Runit Kakar, Ajit MW Chaudhari. “Effects of Spinal Coupling and Marker Set on Tracking of Spine Models During Running”. Journal of Biomechanics, Vol. 116. 2020

Nelson Glover, Nihit Tyagi, Jackson Corbisello, Ajit MW Chaudhari. “Changes in Core Stability of Recreational runners following exhaustive runs.” *in preparation*

Joseph A Passfiume, **Nelson A Glover**, Anne R Crecelius, Ajit MW Chaudhari. “Real-Time Visual Feedback on Breathing during Treadmill Running to Exhaustion”: *in preparation*

CONFERENCE PRESENTATIONS

Nelson A Glover, Ajit MW Chaudhari. “The Development of a New Pitch Count Technology”
Annual Biomedical Research Conference for Minority Students, San Antonio 2014

Nelson A Glover, Runit Kakar, Ajit MW Chaudhari. “Effects of Spinal Coupling and Marker Set on Tracking of Spine Models During Running” In: Proceedings of the International Society of Biomechanics, Calgary 2019

RELEVANT COURSEWORK

Dynamics and Control of Human and Animal Movement, Musculoskeletal Biomechanics, Biomechanics for Physical Therapists, Injury Biomechanics, Research Methods in Biomechanics, Mechanics and Control of Robots

EXPERIENCE

Instructor - Statics

Jan 2020- Present

Nelson Glover
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PhD. Candidate
Tel: 301-741-2256

Served as the instructor of record for Statics in the Spring 2021 semester. Created an asynchronous course with pre-recorded lectures and in-person (virtual) class meeting material. Development of course schedule and syllabi, homework, quizzes, practice problems, and exams were all additional responsibilities. Oversaw two undergraduate teaching assistants and a grader.

Great Lecturer Series Scholar

Aug 2019 – Aug 2020

Worked with faculty at Ohio State with a focus on understanding what makes lectures more effective for undergraduate students

Guest Instructor

Has orchestrated lab classes (Quantifying Movement & Muscle Function in Clinical Practice and Research) and Review Sessions (Biomechanics for Physical Therapy)

Teaching Fellow: Mechanics of Materials and Intro to Engineering

Aug 2014 – Dec 2015

Duties include delivery of discussion sections, holding office hours, grading homework, quizzes, and exams, and writing solutions for homework

UMBC Learning Resource Center Tutor

Jan 2014 – Sep 2015

Tutored multiple students in Statics, Calculus I and II, and Intro to Engineering, and Physics I in weekly meetings with groups of one to four students

HONORS & AWARDS

Alumni Grants for Graduate Students Awardee

2020

Future Academic Scholar Training Program Fellow

2020-2021

Dean's Graduate Enrichment Fellowship

2016

Patrick S. Osmer SROP Fellowship

2016

Tau Beta Pi

Inducted 2014

SERVICE

Mentoring

May 2019 – Present

Has been the primary research mentor for two undergraduate students, and has helped foster the research acumen of multiple early graduate students within the lab

Session Chair

Served as the session co-chair for the Energetics of Walking session at the International Society of Biomechanics meeting; Calgary, 2019

Journal Reviewer

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Has aided in the reviewing of journal articles in the Journal of Biomechanics (2019, 2020)

National Biomechanics Day Coordinator

Mar 2018 – Present

Duties included coordinating with local schools to bring students to the OSU campus to expose them to biomechanics through interactive demonstrations. Also coordinating with other Ohio State faculty and students to help engage any interested departments and labs.

Society of Black Graduate Engineers, President

May 2019 – Present

The Society of Black Graduate Engineers was created to provide resources and community for its members. As both president and vice-president, we have been responsible for creating the framework of the organization, along with connecting with members of the university to help grow and foster the organization.

Inclusive Excellence Council Member

Oct 2018 – Aug 2020

This College of Engineering-wide Council was created to promote inclusion and equity across the college. Responsibilities included helping with the development of an inclusive excellence certificate program for faculty and staff.

Society of Black Graduate Engineers, Vice President

Jan 2016 – May 2019

Society of Black Graduate Engineers, Co-Founder

Jan 2016