

JEREMY J. GRACHAN

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EDUCATION

The Ohio State University, Columbus, OH

Doctor of Philosophy in Anatomy

August 2022

- Dissertation: *Effects of Using Superheroes in an Undergraduate Human Anatomy Curriculum*

Master of Science in Anatomy

May 2020

- Graduate Interdisciplinary Specialization in College and University Teaching
- Thesis: *Characterization of Hypoxia-Inducible Lipid Droplet Associated Protein (HILPDA) Dependent Lipid Droplet Abundance in Pancreatic Cancer Tumors Cells*

University of St. Francis, Joliet, IL

Bachelor of Science in Biology, Minor Chemistry – Magna Cum Laude

May 2017

- Thesis: *The Effects of Respiratory Muscle Resistance Training on Lactate Threshold: A Potential Effort to Prevent Muscle Fatigue During Exercise*

TEACHING EXPERIENCE

Rutgers New Jersey Medical School (NJMS), Newark, NJ

- Assistant Professor – Teaching August 2022 – Present
 - General Responsibilities:
 - Teach in the anatomy small group curriculum and anatomy dissection laboratory sessions as part of the core teaching teams for the various programs (listed below)
 - Collaborate with the course director to enhance and update the institution's learning documents developed for the anatomy TBL sessions
 - Create supplemental gross anatomy and embryology lecture podcasts
 - Develop anatomy-based clinical cases to be used as activities during TBL sessions
 - Write National Board of Medical Education (NBME) style questions for assessments
 - Assist in creating laboratory practical exams
 - Integrate medical imaging into the medical anatomy curriculum
 - **Indicates Anatomy Block Lead
 - Rutgers New Jersey Medical School
 - Phase 1 Core Biomedical Curriculum for Medical Students – *Anatomy, Histology, and Embryology in the following systems-based blocks: Foundations; Musculoskeletal and Integumentary; Cardiovascular**; Pulmonary**; Renal; Digestive; Genitourinary and Endocrine; Neurology, Psychiatry, and Biostatistics***
 - FIRST (Freshman Introduction to Resources, Skills, and Training) Summer Program for incoming medical students
 - SHPEP (Summer Health Professions Education) Program
 - Rutgers School of Dental Medicine
 - Rutgers ANAT7109D – *Gross Anatomy and Embryology for Dental Students; AU22, AU23*
 - *Introduction to Embryology and the Nervous System**, Thorax**, Head and Neck, Upper Limb, Digestive*

- Rutgers School of Graduate Studies; Biomedical and Health Sciences: Newark Health Sciences Campus
 - CMMN594C001 – *Regional Gross Anatomy of the Back and Upper Extremity for Graduate Students*; SP23
- Kean University Doctorate in Physical Therapy Program
 - DPT 6003 – *Human Gross Anatomy*; SU23
- Additional Teaching Projects and Experiences
 - NJMS Anatomy and Surgery Correlations Booklet
 - Collaborated with the Department of Surgery to develop an anatomy with clinical correlations booklet for the Gastrointestinal System that includes common pathologies, related anatomy, and overviews of surgeries, including links to procedural videos. The booklet also includes formative assessment questions.
 - Graduate Medical Education (GME) Sessions
 - Department of Anesthesia and Perioperative Care
 - Facilitated an anatomy review with prosections and co-facilitated the practice of relevant ultrasound imaging for common nerve blocks (e.g., interscalene, femoral, transversus abdominis plane) on anatomical donors to anesthesiology residents. December 2023.
 - Department of Medicine, Division of Pulmonary and Critical Care
 - Facilitated an anatomy review with prosections and co-facilitated the practice of relevant procedures (e.g., cricothrotomy, chest tube insertion) on anatomical donors to pulmonary fellows. August 2023.
 - Guest Presentations for Institutional Programs
 - Hispanic Center of Excellence “Summer Youth Scholars Program (SYSP)”
 - Presented and facilitated two discussions of the major body systems with superhero anatomy integration and anatomy laboratory demonstrations utilizing anatomical donors for 11th and 12th grade students. July 2023.
 - “Science Medicine And Related Topics (SMART)” Program
 - Presented and facilitated two discussions of the major body systems with superhero anatomy integration and anatomy laboratory demonstrations utilizing anatomical donors for 7th through 12th grade students. July 2023.
 - Virtual case study presentation and discussion of *Anatomy of the Knee and the Unhappy Triad* for 7th through 12th grade students. February 2023.
 - “Summer Undergraduate Medical Experience (SUMEx)”
 - Presented multiple sessions for the Summer 2023 Cohort.
 - Session 1: Anatomy laboratory demonstrations utilizing anatomical donors to cover the anatomy of the musculoskeletal, cardiovascular, and respiratory systems.
 - Session 2: Anatomy laboratory demonstrations utilizing anatomical donors to cover the anatomy of the gastrointestinal, urinary, and nervous systems.
 - Session 3: Facilitated a dissection of the thigh.
 - Session 4: Lecture on the ultrasound with correlated lab activities.
 - “Mini-Medical School”

- Case study presentation and discussion of *Anatomy of the Head with Clinical Correlations* for 9th through 12th grade students. September 2023.
- Virtual case study presentation and discussion of *Anatomy of the Head with Clinical Correlations* for 9th through 12th grade students. September 2022.
- “Building the Next Generation of Academic Physicians (BNGAP)”
 - *Overview of the IRB Process* for medical students. March 2024.

The Ohio State University, Columbus, OH

- Graduate Teaching Associate (GTA) August 2019 – August 2022
 - General Responsibilities:
 - Updated the syllabi each semester
 - Built and managed the courses’ online Carmen Canvas pages
 - Presented the majority of the lectures
 - Created and implemented unit reviews
 - Wrote, updated, proctored, and graded the exams
 - Held office hours either through appointments or through scheduled weekly hours
 - Graduate Courses
 - ANAT 6900 – *Human Anatomy for Graduate Students* (AU21)
 - MED COLL 7693 – *Human Anatomy for the College of Medicine’s Pre-Entry Program* (SU20, SU21)
 - Guest Lectures in ANAT 6511 and 6512 – *Human Anatomy for Dental Students I/II* (AU21, SP22)
 - Guest Lectures in ANAT 7890 – *Anatomy Graduate Education Seminar* (SP20, SP21)
 - Undergraduate Courses (** Instructor of Record)
 - ANAT 1300 – *SuperAnatomy* (SP20, SP21, AU21, SP22)**
 - ANAT 2300 – *Human Anatomy* (AU19, SP20, AU20 – OSU Columbus Campus; SP21, SP22 – OSU Lima Campus)**
 - ANAT 3300 – *Advanced Human Anatomy* (SP19)
 - ANAT 4600 – *Human Embryonic Development and Birth Defects* (SP21)**
 - ANAT 4700 – *Undergraduate Histology* (AU20)
 - ANAT 5300 – *Learning Human Anatomy through Dissection* (SU19)
 - ANAT 5440 – *Advanced Regional Dissection for Undergraduate Students* (AU20)**
- Additional Teaching Projects and Experiences
 - TopHat Undergraduate Online Labs
 - Led a group of other GTAs in creating online labs for the ANAT 2300 and ANAT 3300 undergraduate gross anatomy courses utilizing TopHat that included custom prosection videos and supplemental texts and image-based assignments
 - Starting and Leading Anatomy 2300 at The Ohio State Lima Campus
 - With my experience teaching ANAT2300 in Columbus, I was given the opportunity to serve as the Course Director for ANAT2300 at OSU Lima where I taught both the lecture and lab. As they did not have a human body donor lab, faculty and administrators allowed me to be part of the process of creating a teaching space at one of Lima’s local hospitals, including a room to store the donors. During this process, I was able to learn more about the administrative aspects of higher education, as well as learn about pieces that should be considered when developing an anatomy lab and teaching space.

- Due to students at OSU Lima struggling with rigor and content volume associated with the course, I worked to modify the curriculum to specifically help these students while still covering the same content taught at OSU Columbus. These modifications included working with a pathologist to help create case studies, develop team activities, and provide additional assignments that gave the students more opportunities to learn and utilize the content.

Columbus State Community College, Columbus, OH

- Adjunct Instructor August 2020 – August 2022
 - BIO 2300 – *Human Anatomy* (AU20, SU21, AU21, SP22, SU22)

RESEARCH EXPERIENCE

Rutgers New Jersey Medical School, Newark, NJ

- Advising and conducting research related to anatomy and medical education in professional programs, anatomical variations, anatomy outreach, and human body donations.
- Mentees:
 - Alexander Catoya: NJMS Medical Student (Class of 2024)
 - Danielle Lee: NJMS Medical Student (Class of 2024)
 - Yechaan Joo: NJMS Medical Student (Class of 2024)
 - Teren Yedikian: NJMS Medical Student (Class of 2024)
 - Usman Toor: NJMS Medical Student (Class of 2025)
 - Phoebe Li: NJMS Medical Student (Class of 2025)
 - Liam McLoughlin: NJMS Medical Student (Class of 2025)
 - Anna Mathew: NJMS Medical Student (Class of 2025)
 - Emily Kwon: NJMS Medical Student (Class of 2026)
 - Rucha Janodia: NJMS Medical Student (Class of 2026)
 - Helen Nguyen: NJMS Medical Student (Class of 2026)
 - Natasha Verma: NJMS Medical Student (Class of 2026)
 - Rijul Asri, MD: Post-Doctoral Fellow (2023-2024)
 - Shuaibu Ali, MD: Post-Doctoral Fellow (2022-2023)
 - Adarsh Menon, MD: Post-Doctoral Fellow (2022-2023)

The Ohio State University, Columbus, OH

- Anatomy Education Research Laboratories August 2019 – August 2022
 - Dissertation Work – integration of superheroes into undergraduate anatomy education
 - Additional Work – explored undergraduate exam performance based on the time of day the exam was completed
- Papandreou Research Lab March 2019 – September 2020
 - Master Thesis Work - researched pancreatic cancer and how knocking out the gene for hypoxia-induced lipid droplet associated protein (HILPDA) affected lipid droplet formation *in vitro* and tumor growth *in vivo*

University of St. Francis, Joliet, IL

- Summer Undergraduate Research Experience May 2014 – May 2017
 - 2016 (Undergraduate Thesis Work) - Investigated the effects of respiratory muscle resistance training on healthy college students to look for an improvement in blood pH balance during exercise through a near-infrared spectroscopy (NIRS) device
 - 2015 - Investigated the effects of a dietary creatine supplement on healthy college students to look for a reduction in blood lactate during exercise

- 2014 - Investigated the effects of respiratory muscle resistance training on healthy college students to look for an improvement in the blood oxygenation, lowering the blood lactate levels and increasing the lactate tolerance during exercise

AWARDS AND RECOGNITIONS

Professional:

- 2024 International Association of Medical School Educators (IAMSE) Travel Award
- 2024 Golden Apple Nomination from the Rutgers NJMS Class of 2026
- 2023 Golden Apple Award from the Rutgers NJMS Class of 2025
- 2023 Golden Apple Nomination from the Rutgers NJMS Class of 2026

Graduate:

- 2022 Outstanding Ph.D. Graduate Student Award for the Department of Biomedical Education and Anatomy
- 2022 Student Travel Award for the American Association for Anatomy Annual Conference in Philadelphia, PA
- 2021 Margaret H. Hines and Richard J. Hines Memorial Scholarship
- 2021 Graduate Associate Teaching Award (GATA), The Ohio State University Graduate School, Spring 2021
- 2020 Sandy C. Marks, Jr. Poster Presentation Award, in Basic Sciences for “Characterization of HILPDA Dependent Lipid Droplet Abundance in a Mouse Model of Pancreatic Cancer”, American Association of Clinical Anatomists Annual Conference, Summer 2020

Undergraduate:

- Carlene Verstraete Outstanding Service Award, Illinois Residence Hall Association, Spring 2017
- Student Lincoln Laureate Award, Lincoln Academy of Illinois, Fall 2016

GRANTS

- New Jersey Health Foundation
 - Co-Investigator: “Teaching Surgical Clinical Correlates 2/2023 – 2/2024
in Anatomy with Interactive Infographics - Reimagining the
Role of Surgery in Preclinical Medical Education”, \$25,000

RESEARCH PUBLICATIONS

Grachan J. J., Marek M., Cray J., & Quinn, M.M. (2023). Effects of using superheroes in an undergraduate human anatomy curriculum. *Anatomical Sciences Education*. doi: 10.1002/ase.2312

Grachan J. J., Kery M., Giaccia A. J., Denko N. C., & Papandreou I. (2021). Lipid droplet storage promotes murine pancreatic tumor growth. *Oncology Reports*, 45(4), 1-1. doi: 10.3892/or.2021.7972

Grachan J. & Essick E. (2019). The effects of respiratory muscle resistance training on lactate threshold: a potential effort to prevent muscle fatigue during exercise. *BIOS*, 90(4), 263-268. doi: 10.1893/0005-3155-90.4.263

ADDITIONAL PUBLICATIONS

Grachan J. J., Holan, G., Traba, C., Chen, S. (2024). Moving beyond the near-peer teaching model with the Rutgers New Jersey Medical School Teaching Assistant Program. *Medical Science Educator*.

- Leeper, B. L., **Grachan, J. J.**, Robinson, R., Doll, J., Stevens, K. (2024). Honoring human body donors: Five core themes to consider regarding ethical treatment and memorialization. *Anatomical Sciences Education*. doi: 10.1002/ase.2378
- Grachan J. J.**, Quinn, M.M. (2021). Anatomists Assemble! Integrating superheroes into the anatomy and physiology classroom. *Advances in Physiology Education*, 45. doi: 10.1152/advan.00202.2020

ACCEPTED PUBLICATIONS

- Grachan, J. J.**, Robinson, R., Doll, J., Stevens, K., Leeper, B. L. (2024). Donor memorialization practices at religious institutions in the United States. *Anatomical Sciences Education*.

CONFERENCE PRESENTATIONS (Includes Accepted)

- Grachan, J.**, Edwards, S., Stiver, M., Cosimini, M. (2024, June). *Method to your Mechanics: Design and Integration of Games for Health Professions Education*. Focus Session at the International Association of Medical School Educators (IAMSE) Annual Meeting, Minneapolis, MN.
- Grachan, J.**, Breckling, A., Edwards, D., Leeper, B., Robinson, R., Stevens, K., Wisco, J. (2024, May). *Using our (Sheep) Brains to Teach Anatomy: The ADS Support Team*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, St. Louis, MO.
- Stevens, K., Cleveland, L., **Grachan, J.**, Leeper, B., Robinson, R., Wisco, J., Edwards, D., Geske, N., Thomson, M. (2024, May). *Is Your Anatomy Laboratory Ethically Sound? A Panel Discussion on Ethical Topics in the Anatomy Laboratory*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, St. Louis, MO.
- Breckling, A., **Grachan, J.**, Leeper, B., Robinson, R., Wisco, J., Stevens, K. (2024, May). *Love It or Fix It: Top Tricks and Tools for Your Anatomy Lab*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, St. Louis, MO.
- Grachan, J.**, Asri, R., Baquerizo, H., Soto-Greene, M. (2024, March). *Teaching Teen Titans: Integrating Superheroes into Anatomy Education for Middle- and High-School Students in Outreach Programs Aimed at Increasing Diversity in STEM*. Platform presentation at the American Association for Anatomy (AAA) Annual Meeting, Toronto, Canada.
- Holan, G., Asri, R., Yadav, A., Traba, C., Chen, S., **Grachan, J.** (2024, March). *Using an Escape Room Activity to Teach Head and Neck Anatomy to Dental Students*. Platform presentation at the American Association for Anatomy (AAA) Annual Meeting, Toronto, Canada.
- McLoughlin, L., Li, P., Holan, G., **Grachan, J.** (2023, October). *An Analysis of Student Utilized Educational Resources in Pre-Clinical Anatomy Education*. Lightning talk at the International Association of Medical School Educators (IAMSE) Virtual Forum 2023, Virtual Meeting.
- Grachan, J.**, Holan, G., Yadav, A., Chen, S., Traba, C. (2023, October). *The League of Anatomy Educators: An Interdisciplinary Team Approach to Teaching Anatomy*. Lightning talk at the International Association of Medical School Educators (IAMSE) Virtual Forum 2023, Virtual Meeting.
- Grachan, J.**, Breckling, A., Leeper, B., Stevens, K. (2023, May). *Dissecting the "Heart" of the ADS Coaching Program*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Albuquerque, NM.
- Breckling, A., Stevens, K., **Grachan, J.**, Leeper, B., Robinson, R. (2023, May). *Top 10 Tools Needed In Your Anatomy Lab Resource and Outreach Toolbelt*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Albuquerque, NM.
- Leeper, B., Robinson, R. **Grachan, J.**, Stevens, K., (2023, May). *Core Values in Donor Memorialization Practices*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Albuquerque, NM.

- Grachan, J.** (2022, May). *The “Amazing” Anatomist – Incorporating “Marvel”-ous Superheroes into Your Anatomy Classroom*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Fort Lauderdale, FL.
- Grachan, J.** (2022, May). *Anatomy Cruise – A Pun-tastic and Metaphorical Journey Through the Body*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Fort Lauderdale, FL.
- Whetstone, J., Baldwin, A., Burgoon, J., **Grachan, J.**, Omolesky, C., Shareef, N. (2021, October). *COAM’d: The New Verb on Campus*. Session presentation at The Ohio State University Assessment Conference sponsored by the Office of Academic Affairs, Columbus, OH.
- Stevens K., **Grachan, J.**, Severt, B., Wisco, J., Mattinson, C. (2021, May). *Gross Anatomy Labs During the Pandemic and Beyond*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Virtual.
- Burgoon, J., **Grachan, J.**, Parker, M. (2021, May). *Why are my Exam Questions on the Internet? Combat Student Use of “Tutoring” Websites during Exams*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Virtual.
- Grachan, J.** (2020, May). *“Holy Anatomy Professor”: Incorporating Superheroes into Your Classroom*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Ottawa, ON. (Abstract accepted, but the conference was cancelled due to the COVID-19 pandemic)
- Wingert, C. and **Grachan, J.** (2020, May). *Teaching the Brachial Plexus: A New Approach*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Ottawa, ON. (Abstract accepted, but the conference was cancelled due to the COVID-19 pandemic)
- Grachan, J.** (2019, May). *“It’s a Bird. It’s a Plane. No, It’s SuperAnatomy.” Teaching Anatomy with the Help of Superheroes*. Workshop presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Portland, OR.

POSTER ABSTRACTS (Includes Accepted)

- Grachan, J.**, Holan, G., Yadav, A., Chen, S., Traba, C. (2024, November). *Utilizing an Interdisciplinary Teaching Team for Undergraduate Medical Anatomy*. Poster presentation at the Association of American Medical Colleges (AAMC) Annual Meeting: Learn. Serve. Lead. 2024, Atlanta, GA.
- Li, P., Asri, R., Holan, G., Traba, C., Chen, S., **Grachan, J.** (2024, June). *Development of Leadership Skills During Anatomy Small-Group Sessions in a Pre-Clerkship Medical Curriculum*. Poster presentation at the International Association of Medical School Educators (IAMSE) Annual Meeting, Minneapolis, MN.
- Janodia, R., Nguyen, H., Traba, C., Chen, S., **Grachan, J.** (2024, May). *Addressing Visual Learning Equity in Undergraduate Dermatology Education: Skin Color Representation Across Dermatology Lecture Images at Rutgers New Jersey Medical School*. Innovation in Medical Education poster presentation at the Northeastern Group on Educational Affairs (NEGEA) of the Association of American Medical Colleges (AAMC), New York, NY.
- Zoumpou, T., McLoughlin, L., **Grachan, J.**, Holan, G., Yadav, A., Nasri, B., Jones, D. (2024, April). *Redefining Anatomy Teaching in Preclinical Medical Education: A Novel Approach*. Poster presentation at the Association for Surgical Education Annual Meeting, Orlando, FL.
- Asri, R., Baquerizo, H., Soto-Greene, M., **Grachan, J.** (2024, March). *Comfort Levels of Middle and High School-Aged Learners in Anatomical Donor-Based Anatomy Outreach Sessions*. Poster presentation at the American Association for Anatomy (AAA) Annual Meeting, Toronto, Canada.
- Leeper, B., **Grachan, J.**, Robinson, R., Doll, J., Stevens, K. (2024, March). *Respect and Empathy for Anatomical Donors: Five Core Themes to Incorporate in Human Anatomy Laboratories*. Poster

presentation at the American Association for Anatomy (AAA) Annual Meeting, Toronto, Canada.

- Grachan, J.**, Robinson, R., Doll, J., Stevens, K., Leeper, B. (2024, March). *Components of Donor Memorialization Practices at Religious Institutions in the United States*. Poster presentation at the American Association for Anatomy (AAA) Annual Meeting, Toronto, Canada.
- Li, P., Asri, R., **Grachan, J.** (2024, February). *Effect of Peer Facilitation in Anatomy Small Group Curriculum: Academic Performance and Retention*. Poster presentation at the Innovations in Medical Education Online Conference hosted by Keck School of Medicine of the University of Southern California, Virtual Meeting.
- Koc, T., **Grachan, J.**, Holan, G. (2024, February). *Supernumerary Head of the Biceps Brachii Muscle: A Cadaveric Case Report and Physical Therapy Applications*. Poster presentation at the American Physical Therapy Association Combined Sections Meeting 2024, Boston, MA.
- Stevens, K., Leeper B., **Grachan, J.**, Doll, J., Robinson, R. (2023, September). *Major Ethical Concerns with Anatomical Donors & Ways to Prevent Them*. Poster presentation at the Human Anatomy and Physiology Society (HAPS) Virtual Conference.
- Oh, H.M., Prada, C., **Grachan, J.**, Burgoon, J., Mosley, C. (2023, May). *The Impact of Online Laboratories and Hybrid Laboratories on Examination Scores in an Undergraduate Anatomy Program During the COVID-19 Pandemic*. Poster presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Albuquerque, NM.
- Ali, S., Menon, A., Holan, G., **Grachan, J.** (2023, March). *Hepatosplenomesenteric Trunk: A Rare Variation in the Abdominal Vasculature of a Human Cadaver*. Poster presentation at the American Association for Anatomy (AAA) Annual Meeting, Washington, D.C.
- Grachan, J.**, Stevens, K., Leeper, B., Ostwald, M., Edwards, D. (2022, May). *Human Body Donor Ethics: A Dialog*. Poster presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Fort Lauderdale, FL.
- Grachan, J.**, Stevens, K., Severt, B., Ostwald, M., Halfpop, E., Owens, K., Wisco, J. (2022, May). *Dissection Mentorship Update*. Poster presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Fort Lauderdale, FL.
- Grachan, J.**, Beam, S., Cray, J., Burgoon, J. (2022, May). *Impact of Exam Times on Student Performance During Undergraduate Gross Anatomy Unit Examinations*. Poster presentation at the Human Anatomy and Physiology Society (HAPS) Annual Meeting, Fort Lauderdale, FL.
- Grachan, J.**, Quinn, M. (2022, April). *Effects of Using Superheroes and Popular Culture in an Undergraduate Human Anatomy Curriculum*. Poster presentation at the American Association for Anatomy (AAA) Annual Meeting, Philadelphia, PA.
- Grachan, J.**, Kery, M., Auer, E., and Papandreou, I. (2020, June). *Characterization of HILPDA Dependent Lipid Droplet Abundance in a Mouse Model of Pancreatic Cancer*. Poster presentation at the American Association of Clinical Anatomist (AACA) Annual Meeting, New York, NY. (Virtual presentation due to the COVID-19 pandemic)
- Grachan J.**, Quevedo M., Essick E. (2016) *The Effect of Creatine on Lactate-Induced Muscle Fatigue*. Poster presentation at the Honors Council of the Illinois Region (HCIR) Student Symposium, Northern Illinois University, DeKalb, IL and at the Associated Colleges of the Chicago Area (ACCA) Student Research Symposium, Concordia University, Chicago, IL.

INVITED PRESENTATIONS

October 2023. Invited to lead a faculty development session for Rutgers New Jersey Medical School, Rutgers New Jersey Medical School, Newark, NJ. *Come in like a Wrecking Ball: Breaking Down Traditional Lectures for More Active Learning*.

February 2022. Invited to facilitate a discussion with The Ohio State University at Lima's Honors program, The Ohio State University at Lima, Lima, OH. *Anatomical Gifts – The History and Ethics*.

January 2022. Invited to facilitate a discussion with The Ohio State University at Lima's Honors program, The Ohio State University at Lima, Lima, OH. *The Bioethics Behind Genetic Editing and Cloning*.

February 2020. Invited speaker to Beta Beta Beta Biological Science Honorary Meeting, The Ohio State University, Columbus, OH. "*SuperAnatomy*" – *Making Anatomy Education More Accessible to OSU Students*.

PROFESSIONAL ORGANIZATIONS & ASSOCIATED SERVICE

<u>American Association for Anatomy</u>	2021 – Present
• Committee for Early-Career Anatomists	2024 – 2027
○ 3-year term; Applied for and selected by Committee	
• <i>Anatomical Sciences Education</i> Ad Hoc Reviewer	2023 – Present
<u>American Association of Clinical Anatomists</u>	2020 – Present
<u>Human Anatomy and Physiology Society</u>	2019 – Present
• Anatomical Donor Stewardship Committee (previously the Cadaver Use Committee) Member	2019 – Present
○ Chair of Coaching program Subcommittee	
○ Member of Ethics and Donor Memorialization Subcommittee	
○ Member of Lab Resource Subcommittee	
• Nominating Committee	2023 – 2024
○ 1-year term; Selected by Committee Chair	
• <i>HAPS Educator</i> Ad Hoc Reviewer	2023 – Present
<u>International Association of Medical Science Educators</u>	2023 – Present
• <i>Medical Science Educator</i> Ad Hoc Reviewer	2023 – Present
<u>American Physiological Society</u>	2023 – Present
• <i>Advances in Physiology Education</i> Ad Hoc Reviewer	2023 – Present

SERVICE & LEADERSHIP

<u>Rutgers New Jersey Medical School, Newark, NJ</u>	
• Pre-Clerkship Curriculum Committee	2022 – Present
• Distinction in Medical Education (DiME) Co-Faculty Sponsor	2023 – Present
• Teaching Assistants in Medical Education Co-Faculty Lead	2023 – Present
• Anatomy Outreach Facilitator	2023 – Present
• Institutional Review Board (IRB) Member	2023 – Present
• Medical School Merger Task Force – Graduate Programs and Graduate School	2024 – Present
• Search Committees	
○ Anatomy Teaching Faculty	2023
○ Basic Science Teaching Faculty	2023
○ Clinical Librarian	2023

Lippincott Williams & Wilkins (LWW)

- Health Library Advisory Board (1-year term) 2023 – 2024

Association of American Medical Colleges

- Northeast Group on Educational Affairs (NEGEA) Meeting 2024 Abstract Reviewer 2023
- Learn. Serve. Lead. 2024: The AAMC Annual Meeting Abstract Reviewer 2023

International Association of Medical Science Educators

- Lightning Talk Moderator for the IAMSE 2023 Virtual Forum 2023
- Abstract Reviewer for the IAMSE 2024 Annual Meeting 2023

University of St. Francis, Joliet, IL

- Alumni Association Task Force 2023 – Present
- Student Alumni Mentoring (SAM) Program
 - Mentor 2018 – Present
- Alumni Association Board
 - Member 2017 – 2023
 - Student Representative 2015 – 2017

The Ohio State University, Columbus, OH

- Graduate School Awards Committee 2021 – 2022
- Anatomy Outreach Volunteer 2019 – 2022
- Fellowship of Student Anatomists 2018 – 2022

ADDITIONAL TRAINING/EDUCATION

Harvard Medical School Postgraduate Medical Education

Training to Teach in Medicine Program, 6-Month Certificate Program 2022 – 2023

Association of American Medical Colleges

Medical Education Research Certificate Program (MERC) 2023

American Physiological Society

Reviewer Certificate Program 2023

MULTIMEDIA

Caldwell, E. (2023, August 9). *Dissecting the anatomy of a “superheroic” science class*. Ohio State News. <https://news.osu.edu/dissecting-the-anatomy-of-a-superheroic-science-class/>

Klemann, M. (2022, July 14). *OSU-Lima, St. Rita’s partner for Anatomy Lab*. LimaOhio.com. <https://www.limaohio.com/news/2021/02/05/osu-lima-st-ritas-partner-for-anatomy-lab/>

OSU Lima Anatomy Class Lab at St. Rita’s. Your Hometown Stations. (2021, February 17). https://www.hometownstations.com/osu-lima-anatomy-class-lab-at-st-ritas/video_b7c8aec0-0fbd-58db-96b5-9944230c55f2.html