

# Kayla V. Pavlick, PhD

University of South Alabama

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## Education

**PhD, Clinical Anatomy** University of Mississippi Medical Center (UMMC), MS  
2020 – 2024  
Dissertation: Perceptions of Learning Objectives from Pre-Clerkship Medical Educators and Students  
Advisor: Andrew Notebaert, PhD

**Graduate Certificate** University of Florida (UF), FL  
2019 – 2020  
Biomedical Neuroscience

**MS, Biology** Idaho State University (ISU), ID  
2017 – 2019  
Thesis: Olfactory Conditioning Alters American Cockroach Response to Narcotic Substances  
Advisor: David Delehanty, PhD

**BS, Biology** Millsaps College, MS  
2013 - 2017

## Teaching Experience

**Assistant Professor** **June 2024 - current**  
Primary appointment: Whiddon College of Medicine Division of Medical Education  
Secondary appointment: Department of Physiology and Cell Biology  
University of South Alabama, Mobile, AL

- Neuroscience and Behavior Module (co-director)
- Respiratory Module (instructor)
- Patients and Human Structure (instructor)

**Graduate Teaching Assistant**  
Department of Advanced Biomedical Education (formerly Neurobiology and Anatomical Sciences)  
UMMC, Jackson, MS

Pedagogy in the Health Sciences **January 2024 – May 2024**

- Assisted with facilitation of seminar-style discussion-based course regarding topics pertinent to medical education and higher education:
- Led interactive lecture on Backwards Course Design (90 min)

Neuroanatomy for Occupational Therapy **August 2023 – December 2023**

- Facilitated interactive lectures for up to 35 first-year Occupational Therapy students on:
  - Meninges and Ventricles
  - Spinal Cord and Brainstem
  - Diencephalon and Telencephalon

- Basal Nuclei
- Neurophysiology

#### Anatomical Basis for Human Movement

May 2023 – August 2023

- Led interactive lectures for up to 90 first-year Physical and Occupational therapy students on:
  - Introduction to Nervous System (50 min)
  - Brachial Plexus (45 min)
  - Posterior Leg and Knee Joint (110 min)
  - Cubital Fossa and Elbow Joint (50 min)
  - Forearm (110 min)
  - Muscles of Mastication, Facial Expression, and Temporomandibular Joint (90 min)
- Facilitated student-led cadaveric dissections in conjunction with lecture content
- Delivered active learning review sessions in a team dynamic with multiple facilitators (4, 50 min sessions)
- Created, administered, and evaluated written exam questions
- Provided support to the course director as needed

#### Medical Neuroscience and Behavior I

February 2023 – May 2023

- Led interactive lecture on Neurodevelopment (50 min) to 170 first-year medical students
- Delivered active learning review sessions in a team dynamic with multiple facilitators to cover neuroanatomy, clinically relevant neural pathways, and pathology in preparation for NBME and STEP 1 exams
- Facilitated case-based learning sessions alongside clinicians (16, 45 min sessions)
- Created, administered, and evaluated written exam questions
- Provided support to the course director as needed

#### Medical Histology and Cell Biology

August 2022 – February 2023

- Educated up to 170 first-year medical and graduate students in fundamental cell biology and functional histology in preparation for STEP exams
- Led interactive lecture on the Integumentary System (50 min) to 170 first-year medical students
- Facilitated in-person laboratory sessions using light microscopy and images of electron microscopy
- Created, administered, and evaluated written and practical exam questions
- Reviewed fundamental cell biology and functional histology with students upon request in preparation for NBME and STEP 1 exams
- Provided support to the course director as needed

#### Dental Neuroanatomy

July 2022 – August 2022

- Educated up to 40 second-year dental students in neuroanatomy and clinically relevant neural pathways and pathology
- Led interactive lectures for up to 40 second-year dental students on:
  - Telencephalon, Diencephalon, and Internal Capsule (110 min)
  - Anterolateral System (90 min)
  - Auditory System (50 min)
- Created, administered, and evaluated written and practical exam questions
- Provided support to the course director as needed

#### Medical Neuroscience and Behavior I

February 2022 – May 2022

- Led interactive lecture on Neurodevelopment (50 min) to 170 first-year medical students

- Delivered active learning review sessions in a team dynamic with multiple facilitators to cover neuroanatomy, clinically relevant neural pathways, and pathology in preparation for NBME and STEP 1 exams
- Facilitated case-based learning sessions alongside clinicians (16, 45 min sessions)
- Created, administered, and evaluated written exam questions
- Provided support to the course director as needed

#### Medical Gross and Developmental Anatomy

August 2021 – December 2021

- Educated up to 170 first-year medical and graduate students in human anatomy and embryology using cadaveric laboratory sessions
- Led interactive lectures for up to 170 first-year medical students on:
  - Muscles of Facial Expression and CN VII (50 min)
  - Muscles of Mastication, Infratemporal Fossa, and Mandibular Branch of Trigeminal Nerve (50 min)
- Created and facilitated interactive STEP-style review sessions with other TA for the course (3, 50 min sessions)
- Created, administered, and evaluated written and practical exam questions
- Provided support to the course director as needed

#### **Adjunct Instructor**

Western Texas College, Snyder, TX

#### Anatomy and Physiology I

August 2019 – December 2019

- Educated up to 40 pre-health profession undergraduate students in foundational human anatomy and physiological processes corresponding to the systems presented
- Created, delivered, and maintained virtual, asynchronous A&P I course through Moodle
- Provided educational support to students as needed

#### Anatomy and Physiology II

January 2020 – May 2020

- Educated up to 40 pre-health profession undergraduate students in foundational human anatomy and physiological processes corresponding to the systems presented
- Created, delivered, and maintained virtual, asynchronous A&P I course through Moodle
- Provided educational support to students as needed

#### **High School Instructor**

East Valley Institute of Technology (EVIT), Mesa, AZ

#### Human Anatomy and Physiology for Health Careers

September 2019 – May 2020

- Educated up to 50 high school students pursuing careers in healthcare in human anatomy and physiology with clinical applications
- Created, delivered, and evaluated course content, teaching and learning activities, and assessments
- Worked closely with institution guidance counselor to modify curriculum as needed for students with accommodations or extenuating circumstances
- Delivered didactic lectures corresponding with state-mandated systems-based curriculum
- Provided additional educational support to students upon request
- Switched to virtual platform due to COVID-19 pandemic and maintained frequent communication with students, parents, guardians, and EVIT faculty to ensure goals were met

### **Lead Graduate Teaching Assistant**

Department of Biology  
ISU, Pocatello, ID

Anatomy and Physiology Laboratory

August 2017 – May 2019

- Educated up to 200 pre-healthcare track undergraduate students in foundational anatomy and physiology utilizing cadaveric laboratory sessions and various physiological tools
- Delivered didactic laboratory introduction lectures on regions of Upper Extremity, Lower Extremity, and Back
- Delivered didactic laboratory introduction lectures on the Heart, Lungs, Brain and Cranial Nerves, Reproductive System, and Organs of Special Sense
- Provided training and education to team of graduate teaching assistants in preparation for laboratory sessions
- Prosected and maintained cadavers as needed
- Administered and evaluated practical exams
- Provided tutoring upon student request

### **Outreach Coordinator**

Department of Physics  
ISU, Pocatello, ID

August 2017 – May 2019

- Educated K-12 students in the tri-state area through interactive learning and experimental demonstrations on various biological and physics concepts including:
  - Arthropods of Public Health Importance
  - Forces and Motion
  - States of Matter
  - Electricity and Magnetism

### **Science Tutor**

Wyzant, Inc.

May 2017 – June 2024

- Providing additional individualized educational support to students upon request in subjects of:
  - Medical Gross Anatomy
  - Medical Histology
  - Medical Neuroscience
  - Physical Therapy Neuroanatomy
  - Veterinary Histology
  - Undergraduate Biology
  - Undergraduate Ecology
  - High School AP Biology
- Introducing and implementing study approaches to foster growth mindset and metacognitive habits

### **Lead Undergraduate Teaching Assistant**

Department of Biology  
Millsaps College, Jackson, MS

Terrestrial Arthropods

August 2016 – December 2016

- Educated up to 20 undergraduate students in taxonomic and phylogenetic classification, ecology, and maintenance of terrestrial arthropods
- Delivered didactic lecture on Insects of Public Health Concern (60 min)
- Providing individualized tutoring upon student request

## Invited Lectures and Workshops

SciComm Bootcamp Workshop, USA October 22, 2024

- Lead facilitator for workshop centered around improving scientific communication to non-scientific or differently scientific audiences through the use of improvisation theater techniques

SciComm Bootcamp Workshop, UMMC April 4, 2024

- Lead facilitator for workshop centered around improving scientific communication to non-scientific or differently scientific audiences through the use of improvisation theater techniques

Promoting Recruitment Opportunities in Medicine with Individual Study Experiences (PROMISE) Program, UMMC June 14, 2023

- Constructed and delivered a condensed neuroanatomy course as an interactive introduction to medical school for undergraduate junior and senior under-represented minority students participating in the Promise Program (60 min)

UMMC-MSU Engineering Excellent in Device Design Program (UMEEDD), UMMC July 12, 2023

- Provided an introduction of cadaveric-based gross anatomy with an emphasis on lung anatomy and the physics underlying pneumothorax to undergraduate engineering students from Mississippi State University (90 min)

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Medical Gross and Developmental Anatomy, UMMC November 10, 2022

- Muscles of Mastication, Infratemporal Fossa, and Mandibular Branch of Trigeminal Nerve, delivered to first-year medical students (50 min)

## Publications (Abstracts)

Pavlick, K., Boothe, C., and Notebaert, A. (2023), Pre-Clerkship Medical Educators' Definition and Uses of Learning Objectives. *Anatomical Sciences Educator*, 16(6). <https://doi.org/10.1002.ase.2344>

Pavlick, K. and Schaefer, A. (2022), Factors Contributing to Cognitive Enhancement and Psychostimulant Medication Use Among First Year Medical Students. *The FASEB Journal*, 36(1). <https://doi.org/10.1096/fasebj.2022.36.S1.R2546>

## Publications (Manuscripts)

Pavlick, K., Boothe, C., and Notebaert, A. (in press). Pre-Clerkship Medical Students' Perceptions of Learning Objectives: Definitions, Uses, and Communication. *HAPS Educator*.

Pavlick, K., Boothe, C., and Notebaert, A. (2024), A Qualitative Study on Instructor Experiences with Learning Objectives in the Basic Sciences. *HAPS Educator*, 28(1). <https://doi.org/10.21692/haps.2024.04>

## Grants and Awards

- Travel Award, Anatomy Connected, Washington, D.C. 2023
- Graduate Research Day Poster Award, UMMC 2022
- Travel Award, Experimental Biology, Philadelphia 2022

- Dean’s Scholarship, UMMC 2020 – present
- Graduate TA of the Year (Runner Up), ISU 2019
- College of Science and Engineering Internal Grant (\$1,500), ISU 2017
- Howard Hughes Medical Institute Research Grant (\$3,000) 2015

## Memberships, Licenses, and Certifications

- International Association of Medical Science Educators 2024 – present
- American Association of Clinical Anatomists 2024 – present
- Human Anatomy and Physiology Society 2022 – 2023
  - HAPS Annual Meeting, Attendee (2022)
- Psychological First-Aid Certification, Johns Hopkins University 2021
- Group on Women in Medicine and Science, UMMC 2021 – 2024
- Standard CTE Health Careers K-12, AZ Dept. of Education 2019 – 2020
- American Association for Anatomy 2019 – present
  - Anatomy Connected, Poster Presenter (2023)
  - Experimental Biology, Poster Presenter (2022)
  - Experimental Biology, Attendee (2019)
- Schedule II Narcotics Researcher and Handler, Drug Enforcement Agency 2018 – 2019
- Biology Graduate Student Association, ISU 2017 – 2019
- Protecting Human Research Participants, NIH 2017 – 2020
- United States Pony Club, H-B Certification 2014
- MENSA 2002 – present

## Professional Service (National)

- Peer Reviewer, Teaching Tips, Human Anatomy & Physiology Society 2022 - 2023

## Professional Service (Local)

- Dissertation Committee Member, Nasfik Khan, PhD in Systems Engineering, USA 2024
- Student Recruitment Ambassador, UMMC 2023 – 2024
- Student Safety Advisory Board, Student Representative, UMMC 2023 – 2024
- Qualifying Exam Preparation Lead Facilitator, UMMC 2023 – 2024
- Embryology Club Lead Facilitator, UMMC 2023 – 2024
- Journal Club Lead Facilitator, UMMC 2023 – 2024
- Exploring Healthcare Pathways, IMPACT the RACE, Alcorn State University 2023
- Columnist, *The Murmur*, UMMC 2022 – 2023
- Graduate Student Body Vice President, UMMC 2022 – 2023
- Social Media Account Manager (Twitter and Instagram), UMMC 2022 – present
- Exploring Healthcare Pathways, IMPACT the RACE, Jackson State University 2022
- Exploring Healthcare Pathways, IMPACT the RACE, Mississippi State Univ., Facilitator 2022
- Exploring Healthcare Pathways, IMPACT the RACE, Univ. of Mississippi, Facilitator 2022
- Group on Women in Medicine and Science (GWIMS), Trainee Representative 2021 – 2022
- Graduate Student Body Secretary/Treasurer, UMMC 2021 – 2022
- EVIT Behavioral Health Advisory Board, Member 2019 – 2020
- Travel Grant Committee, ISU, Member 2019

- Hiring and Search Committee, ISU, Student Representative 2018

## Community Engagement

- Mississippi Organ Recovery Agency, Jackson, MS (advocate) 2023
- Mosaic Summer Enrichment Cadaveric-Based Anatomy Demonstration, UMMC, MS 2023
- Lamar High School Cadaveric-Based Anatomy Demonstration, UMMC, MS 2023
- Jackson Prep School Cadaveric-Based Anatomy Demonstration, UMMC, MS 2023
- Insight Summer Enrichment Cadaveric-Based Anatomy Demonstration, UMMC, MS 2022
- Starkville High School Cadaveric-Based Anatomy Demonstration, UMMC, MS 2021
- Cadaveric Dissection Demonstration, ISU, ID 2019
- Cadaveric-Based Anatomy Demonstration, ISU, ID 2019
- Arachnid Lecture, New Albany High School, MS (presenter) 2016
- Arachnid Lecture, Tupelo Elementary School, MS (presenter) 2016
- Arachnid Lecture, Christ Covenant School, MS (presenter) 2016
- Southwest Region Pony Club Camp, St. John, AZ (instructor) 2016
- Prairie Jumpers Pony Club Camp, Fort Madison, IA (instructor) 2016
- Arachnid Lecture, Highland Bluff Elementary School, MS (presenter) 2015
- Arachnid Lecture, New Albany High School, MS (presenter) 2015
- Polocrosse Clinic, RainTree Farm, MS (instructor) 2009
- Polocrosse Clinic, Red Brick Farm, MS (instructor) 2008

## Professional Development

- Crucial Conversations, USA July 2024
- SciComm Bootcamp, Indiana University October 2023
- Wellness Initiative Program, UMMC September 2022 – February 2023
  - Wellness Initiative Program Level 1 Badge
  - Wellness Initiative Program Level 2 Badge
  - Substance Misuse and Prevention
  - Lifestyle Medicine: Nutrition + Physical Wellness
  - Mental Health, Burnout, Imposter Syndrome
  - Self-Care, Self-Worth, and Community Building with Supportive Relationships
  - Professional & Personal Identity
- Group for Women in Medicine and Science (GWIMS), UMMC August 2022 - present
  - Calming the Storm: How to De-Escalate Emotionally Charged Encounters
  - How to Navigate Challenging Situations
  - Women in Medicine and Infertility
- Career Opportunity Professional Development Series (COPD), UMMC August 2021 – present
  - 63 Best Careers for PhD's
  - Cultural Competency in the Research Environment
  - Buried Under Emails
  - A Journey from Bedside to Bench and Back – A Clinician Scientist Path through Practice, Research, and Academia
  - Environmental Science Careers in the Federal Government
  - “Hair-On-Fire” Presentation Skills
  - Diversity and Sensitivity in the Workplace
  - The Write Stuff: Tools & Strategies for Writing with Confidence
  - Bench to Beltway: Transitioning to a Career in Science Policy

- My Journey to Now
- What in the world is an MSL?
- One Approach to Drug Discovery is to Start Backwards to Go Forwards
- Cultural Competence in Research
- FDA Overview and Career Opportunities

## Internships

- Supervised Cadaveric Dissection; ISU, Katrina Rhett, DPT 2019
- Performed dissections on several cadaveric donors to include the following: deep and superficial back, brain and spinal cord, head and neck, thigh, leg, arm, forearm, abdominal viscera, heart and lungs
- Salticidae spp. Aversion to Stripes, University of Florida 2017
- Manipulated the appearance of prey for *Anasaitis canosa* to test for an aversion or preference for striped prey versus solid colored prey
  - Formulated hypotheses as to whether and/or why striped patterning on individual prey plays a role in courtship behaviors
- Hippotherapy Experience, Equest Therapeutic Riding Center 2015
- Utilized horses as tools for physical therapy treatment plans to encourage motor activities in patients with autism, cerebral palsy, dementia, Down’s syndrome, and arthritis
- Transcranial Direct Current Stimulation; George Mason University, Joseph Pancrazio, PhD 2015
- Researched and compiled data regarding FDA regulations on TDCS devices and their availability to the public
  - Built a TDCS device from readily available over-the-counter materials
- Robotic Sensory Obstacles; George Mason University, Joseph Pancrazio, PhD 2014
- Experimented with different programming patterns to write a program that allowed a small robot to utilize and integrate multiple types of sensors ranging from infrared detectors to tactile sensors

## Non-Peer Reviewed Publications

- Pavlick, K. (2023). Perspectives. *The Murmur*, 52(2).
- Pavlick, K. (2023). Without You. *The Murmur*, 52(2).
- Pavlick, K. (2022). Perspectives. *The Murmur*, 52(1).
- Pavlick, K. (2022). Puzzles & Ponderings. *The Murmur*, 52(1).

## References

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