Kayla V. Pavlick, PhD

University of South Alabama 5851 USA Drive North, Mobile, AL 36608

kvpavlick@southalabama.edu | kvpavlick@outlook.com

Mobile: (662) 668-0125 | Twitter: @KVP_Anatomy LinkedIn: https://www.linkedin.com/in/kayla-v-paylick-bb4aa6183/

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
 - o Diencephalon and Telencephalon

- o 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:
 - o Introduction to Nervous System (50 min)
 - o Brachial Plexus (45 min)
 - o Posterior Leg and Knee Joint (110 min)
 - o Cubital Fossa and Elbow Joint (50 min)
 - o Forearm (110 min)
 - o 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:
 - o Telencephalon, Diencephalon, and Internal Capsule (110 min)
 - o Anterolateral System (90 min)
 - o 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:
 - o 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:
 - o 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 nonscientific 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/fasebbj.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, UMMCGraduate TA of the Year (Runner Up), ISU | 2020 – present 2019 |
|--|---|
| • College of Science and Engineering Internal Grant (\$1,500), ISU | 2017 |
| Howard Hughes Medical Institute Research Grant (\$3,000) | 2015 |
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| Memberships, Licenses, and Certifications | |
| International Association of Medical Science Educators | 2024 – present |
| American Association of Clinical Anatomists | 2024 – present |
| Human Anatomy and Physiology Society HARS Annual Marting, Attended (2022) | 2022 - 2023 |
| o HAPS Annual Meeting, Attendee (2022) | 2021 |
| Psychological First-Aid Certification, Johns Hopkins University Group on Women in Medicine and Science, UMMC | 2021 - 2024 |
| Standard CTE Health Careers K-12, AZ Dept. of Education | 2021 - 2024 2019 - 2020 |
| American Association for Anatomy | 2019 – 2020 2019 – present |
| Anatomy Connected, Poster Presenter (2023) | 201) present |
| 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 |
| Peer Reviewer, Teaching Tips, Human Anatomy & Physiology Society Professional Service (Local) | 2022 - 2023 |
| Professional Service (Local) | |
| Professional Service (Local) Dissertation Committee Member, Nasfik Khan, PhD in Systems Engineering, US | SA 2024 |
| Professional Service (Local) | |
| Professional Service (Local) Dissertation Committee Member, Nasfik Khan, PhD in Systems Engineering, US Student Recruitment Ambassador, UMMC | SA 2024 2023 – 2024 |
| Professional Service (Local) Dissertation Committee Member, Nasfik Khan, PhD in Systems Engineering, US Student Recruitment Ambassador, UMMC Student Safety Advisory Board, Student Representative, UMMC | SA 2024 2023 – 2024 2023 – 2024 |
| Professional Service (Local) Dissertation Committee Member, Nasfik Khan, PhD in Systems Engineering, US Student Recruitment Ambassador, UMMC Student Safety Advisory Board, Student Representative, UMMC Qualifying Exam Preparation Lead Facilitator, UMMC | SA 2024 2023 – 2024 2023 – 2024 2023 – 2024 |
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| | • | Hiring and | Search | Committee, | ISU, | Student | Represer | ntative |
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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
- o Wellness Initiative Program Level 2 Badge
- o Substance Misuse and Prevention
- o Lifestyle Medicine: Nutrition + Physical Wellness
- o Mental Health, Burnout, Imposter Syndrome
- Self-Care, Self-Worth, and Community Building with Supportive Relationships
- o Professional & Personal Identity
- Group for Women in Medicine and Science (GWIMS), UMMC August 2022 present
 - o Calming the Storm: How to De-Escalate Emotionally Charged Encounters
 - o How to Navigate Challenging Situations
 - Women in Medicine and Infertility
- Career Opportunity Professional Development Series (COPD), UMMC August 2021 present
 - o 63 Best Careers for PhD's
 - o Cultural Competency in the Research Environment
 - o Buried Under Emails
 - A Journey from Bedside to Bench and Back A Clinician Scientist Path through Practice, Research, and Academia
 - o Environmental Science Careers in the Federal Government
 - "Hair-On-Fire" Presentation Skills
 - Diversity and Sensitivity in the Workplace
 - o The Write Stuff: Tools & Strategies for Writing with Confidence
 - o Bench to Beltway: Transitioning to a Career in Science Policy

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

Audra Schaefer, PhD – Associate Professor, University of Mississippi Medical Center, Jackson, MS

Phone: 601.984.1000 E-mail: aschaefer2@umc.edu

Michael Brown, PT, DPT, SCS – Assistant Professor, University of Mississippi Medical Center, Jackson, MS

Phone: 601.984.6311

E-mail: mbrown23@umc.edu

Andrew Notebaert, PhD - Associate Professor, Northern Illinois University, DeKalb, IL

Phone: 815-753-9283

E-mail: anotebaert@umc.edu

Joseph Pancrazio, PhD - Vice President for Research and Professor, University of Texas, Dallas, TX

Phone: 972.883.2138

E-mail: joseph.pancrazio@utdallas.edu

Eddie Perkins, PhD – Professor, University of Mississippi Medical Center, Jackson, MS

Phone: 601.984.5722 E-mail: eperkins@umc.edu

Katrina Rhett, PT, DPT- Custom Rehab Physical Therapy Services, Chubbuck, ID

Phone: 651.307.0459 E-mail: <u>rhett.kr@gmail.com</u>

John Corsaro, MS- Principal, EVIT Power Road (East) Campus, Mesa, AZ

Phone: 480.308.4605 E-mail: jcorsaro@evit.com