

Hannah L. Herriott

School of Physical Therapy
Rueckert-Hartman College for Health Professions
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EDUCATION

Doctor of Philosophy Candidate

2017-Current

Indiana University School of Medicine, Indianapolis, IN
Anatomy, Cell Biology, & Physiology – Anatomy Education Track
Advisors: Margaret A. McNulty, PhD & Jessica N. Byram, PhD

Bachelor of Science

2013-2017

The Pennsylvania State University, State College, PA
Systems Analysis of Mathematics with a Biological Application Area
Advisors: Jennelle L. Malcos, PhD & John R. Waters, PhD

ACADEMIC APPOINTMENTS

Assistant Professor

2022-Present

Regis University, Denver, CO
School of Physical Therapy – Rueckert-Hartman College for Health Professions

Associate Instructor (equivalent to Graduate Teaching Assistantship)

2017-Present

Indiana University School of Medicine, Indianapolis, IN
Department of Anatomy, Cell Biology, & Physiology

Learning (Lecture) Assistant Coordinator

2016-2017

The Pennsylvania State University, State College, PA
Department of Biology

Laboratory Teaching Assistant

2016-2017

The Pennsylvania State University, State College, PA
Department of Biology

Learning (Lecture) Assistant

2015-2017

The Pennsylvania State University, State College, PA
Department of Biology

EDUCATIONAL ACTIVITIES

INDIANA UNIVERSITY SCHOOL OF MEDICINE, INDIANAPOLIS, IN

Medical Education OneHealth Workshop (MEOW)

2022

Inaugural 8-hour workshop promoting the OneHealth among MD, DDS, DPT, DVM, & MPAS students
Credit Hours: IPE participation credit given
Student Population: 40 DDS, DPT, DVM, MD, & MPAS students
Role(s): Procure animal specimens from Purdue as well as 6 human donors, help student volunteers prepare presentations (8 total), present on cardiovascular surgical interventions, & aid veterinary faculty in dissections

Endocrine, Reproductive, Musculoskeletal, & Dermatology (MED-X755)

2020, 2022

Clinically-focused course with elements of anatomy, physiology, & histology featuring lectures & PBLs
Credit Hours: 6 cr.
Student Population: 120-130 MD students
Role(s): Facilitate PBLs

Foundations of Clinical Science (ANES-B511)*	2021
Physiology course featuring a flipped classroom approach with bi-weekly quizzes & active learning sessions	
Credit Hours: 10 cr.	
Student Population: 20 Anesthesiologist Assistant (MS) students	
Role(s): Create 24 hours of course content (50% lecture, 50% active learning content)	
Human Gross Anatomy (ANAT-D501)*	2019, 2021
Cadaveric anatomy course featuring lectures & dissection-based laboratory sessions	
Credit Hours: 5 cr.	
Student Population: 20-40 MS & PhD students	
Role(s): Create lectures, dissect prosections, & facilitate learning during laboratory dissections	
Human Structure (MED-X620)*	2019, 2020
Cadaveric anatomy, histology, & embryology course featuring lectures & dissection-based laboratory sessions	
Credit Hours: 9 cr.	
Student Population: 120-130 MD students	
Role(s): Create lectures, dissect prosections, & facilitate learning during laboratory dissections	
Neuroscience & Behavior (MED-X660)*	2020
Neuroscience histology, & radiology course featuring lectures, CBLs, PBLs, & TBLs	
Credit Hours: 6 cr.	
Student Population: 120-130 MD students	
Role(s): Modify in-person PBLs for a virtual learning environment & facilitate CBLs, PBLs, & reviews	
Neuroanatomy (ANAT-D527)*	2020
Neuroscience course featuring lectures & wet laboratory sessions	
Credit Hours: 3 cr.	
Student Population: 20-40 MS & PhD students	
Role(s): Create a central nervous system anatomy lecture & facilitate learning during laboratory sessions	
Basic Histology (ANAT-D502)	2017, 2019
Histology course featuring a flipped classroom approach with team-based learning (TBLs)	
Credit Hours: 4 cr.	
Student Population: 20-40 MS & PhD students	
Role(s): Facilitate review session, create active learning worksheets, & assist with TBLs	
INDIANA UNIVERSITY SCHOOL OF HEALTH & HUMAN SERVICES, INDIANAPOLIS, IN	
Anatomy for Healthcare Professionals (ANAT-D528)*	2018-2020
Cadaveric anatomy course featuring lectures, dissection-based laboratory sessions, & CBLs	
Credit Hours: 5 cr.	
Student Population: 120-130 DPT, MPAS, & OTD students	
Role(s): Create 9 hours of lecture content & 12 case studies, train 4 th -year MD students to facilitate small group discussions, facilitate 8 CBLs per summer, supervise prosection, & facilitate learning during laboratory dissections	
Translational Neuroscience (ANAT-D701)	2018, 2019
Neuroscience course featuring lectures, wet laboratory sessions, & PBLs	
Credit Hours: 5 cr.	
Student Population: 80-90 DPT & OTD students	
Role(s): Facilitate weekly PBLs, evaluate group presentations, & facilitate learning during two laboratory sessions	
INDIANA UNIVERSITY SCHOOL OF DENTISTRY, INDIANAPOLIS, IN	
Systems Approach to Biomedical Sciences I (DENT-D515)	2020
Physiology course featuring lecture-based content	
Credit Hours: 5 cr.	
Student Population: 100-110 DDS students	
Role(s): Create 2 lectures with active learning incorporated throughout	
INDIANA UNIVERSITY-PURDUE UNIVERSITY INDIANAPOLIS, INDIANAPOLIS, IN	
Cadaveric Anatomy (BIOL-N461)	2018, 2019

* Teaching approach for the course altered due to the COVID-19 pandemic

* Teaching approach for the course altered due to the COVID-19 pandemic

Cadaveric anatomy course featuring guided laboratory sessions & self-directed learning

Credit Hours: 5 cr.

Student Population: 20 undergraduate students

Role(s): Dissect prosection (2018) & supervise prosections (2019)

Human Physiology (BIOL-N217)

2018(2)

Physiology course featuring lectures & laboratory sessions

Credit Hours: 5 cr.

Student Population: 30-40 undergraduate students (per section)

Role(s): Create laboratory presentations & assessments for 2 sections of the course, facilitate learning during laboratory sessions, & grade weekly laboratory reports

THE PENNSYLVANIA STATE UNIVERSITY, STATE COLLEGE, PA

Function & Development of Organisms (BIOL 240W)

2016, 2017

Physiology & developmental biology course featuring lectures, active learning exercises, & laboratory sessions

Credit Hours: 4 cr.

Student Population: 700 undergraduate students

Role(s): Select & train the learning assistants, perform demonstrations in-class, create & facilitate active learning exercises

Human Physiology (BIOL 141)

2015-2017(2)

Physiology course featuring lectures & active learning exercises

Credit Hours: 3 cr.

Student Population: 700 undergraduate students

Role(s): Create active learning worksheets, facilitate active learning in-class, & conduct office hours

Molecular & Cellular Biology (BIOL 230W)

2016(2)

Biochemistry, cellular biology, & genetics course featuring lectures, active learning, & laboratory sessions

Credit Hours: 4 cr.

Student Population: 24 undergraduate students (per section)

Role(s): Create presentations, facilitate learning during laboratory sessions, & grade lab reports/presentations

LECTURES DEVELOPED

INDIANA UNIVERSITY SCHOOL OF MEDICINE, INDIANAPOLIS, IN

Foundations of Clinical Science (*Physiology for Healthcare Professionals, Lecture Length: 2 hours pre-recorded video, 2 hours in-class activities*)

Bone Metabolism

December 2021

Metabolism & Energy Balance

December 2021

Procreation, Pregnancy, & Fetal Development

November 2021

Estrogen- & Testosterone-Driven Reproductive Systems

November 2021

Clinical Correlates of the Respiratory System

October 2021

Gas Exchange & Transport

October 2021

Neuroanatomy (*Graduate Neuroscience, Lecture Length: 1 hour*)

Introduction to Anatomical Features of the Central Nervous System

February 2020

Basic Histology (*Graduate Histology, Lecture Length: 1 hour*)

Review of the Gastrointestinal System

December 2019

Review of the Urinary System

December 2019

Human Structure (*Medical Gross Anatomy, Lecture Length: 1 hour*)

Anterior Triangle of the Neck

November 2019

Posterior Triangle of the Neck

November 2019

Human Gross Anatomy (*Graduate Anatomy, Lecture Length: 2 hours*)

Muscles of Facial Expression & Mastication, Sensory Innervation of the Face

April 2019

Anterior & Posterior Triangles of the Neck

March 2019

INDIANA UNIVERSITY SCHOOL OF HEALTH & HUMAN SERVICES, INDIANAPOLIS, IN

Anatomy for Healthcare Professionals (*Anatomy for PA, PT, & OT Students, Lecture Length: 1.5 hours pre-recorded video, videos segmented with embedded mini-quizzes in between*)

Superior & Posterior Mediastinum	June 2020
Heart & Middle Mediastinum	June 2020
Cranial Fossae, Foramina, Meninges, & Venous Sinuses	July 2019
Anatomy for Healthcare Professionals (<i>continued</i>)	
Viscera & Neurovasculature of the Neck	July 2019
Anterior & Posterior Triangles of the Neck	July 2019
Anterolateral Abdominal Wall & Inguinal Canal	June 2018

INDIANA UNIVERSITY SCHOOL OF DENTISTRY, INDIANAPOLIS, IN

Systems Approach to Biomedical Sciences I (*Dental Physiology, Lecture Length: 1 hour*)

Cardiac & Smooth Muscle	February 2020
Skeletal Muscle	February 2020

RESEARCH PRESENTATIONS

PLATFORM PRESENTATIONS & INVITED TALKS

Improved Interprofessional Role Comprehension through Asynchronous Case-Based Activities Indiana University School of Medicine's 3 rd Annual Education Day Co-Authors: Thakur S, Byram JN, McNulty MA	April 2022 Indianapolis, IN
Medical Students' Perspectives on a Near-Peer Facilitator Experience Aimed at Cultivating IPE Skills Indiana University School of Medicine's 3 rd Annual Education Day Co-Author: McNulty MA	April 2022 Indianapolis, IN
Identification of Potentially Inhibitory Interprofessional Power Dynamics Among Healthcare Students Experimental Biology Conference – American Association for Anatomy Co-Author: McNulty MA	April 2021 Virtual
Role Claiming and Other Negative Dynamics Among Students in Various Healthcare Programs Indiana University School of Medicine's 2 nd Annual Education Day Co-Author: McNulty MA	April 2021 Virtual
Examining Role Confusion and Claiming Among Allied Health Professional Students Education Track Seminar Series Department of Anatomy, Cell Biology, & Physiology, IUSM	December 2020 Virtual
Pandemic Pedagogy: Best Practices for Converting Lectures to Online Formats Indiana University Center for Teaching & Learning's Scholarly Teaching Symposium	October 2020 Virtual
Identifying Misconceptions about the Roles of Allied Health Professions in Patient Care Experimental Biology Conference – American Association for Anatomy Co-Author: McNulty MA	April 2020* San Diego, CA

WORKSHOPS

Quality Qualitative Research in Anatomy: An Introductory Workshop International Federation of Associations of Anatomists Presenters: Lazarus MD, Attardi SM, Byram JN Facilitators: Cale AS, Herriott HL , McNulty MA, Robertson KA	December 2020 Virtual
A Cadaveric Prosection for Demonstrating the 12 Cranial Nerves In Situ Workshop Human Anatomy & Physiology Conference Co-Presenter: Helbing SA	May 2018 Columbus, OH

POSTER PRESENTATIONS

Successful Interprofessional Education Doesn't Require Team Activities Experimental Biology Conference – American Association for Anatomy Co-Author: Thakur S, Herriott HL , Byram JN, McNulty MA	April 2022 Philadelphia, PA
Examining the Efficacy of a Virtual Interprofessional Education Intervention Compared to In-Person	June 2021

* Conference cancelled due to the COVID-19 pandemic

Indiana University School of Medicine Student Research Symposium Co-Author: McNulty MA	Virtual
Identifying Misconceptions about the Roles of Allied Health Professions in Patient Care Experimental Biology Conference – American Association for Anatomy Co-Author: McNulty MA	April 2020* San Diego, CA
A Systematic Review of Spatial Ability & Anatomy Performance: It's Time for a Meta-Analysis Experimental Biology Conference – American Association for Anatomy Co-Authors: Roach VA, Mi M, Mussell J, Van Nuland S, Lufler RS, DeVeau K, Dunham SM, Husmann P, Herriott HL , Edwards D, Doubleday AF, Wilson BM, Wilson AB	April 2020* San Diego, CA
An Interprofessional Intervention for Improving Role Comprehension and Clarity Indiana University School of Medicine's 1 st Annual Education Day Co-Author: McNulty MA	February 2020 Indianapolis, IN
Students' Comprehension of the Roles of Allied Health Professionals Experimental Biology Conference – American Association of Anatomists Co-Author: McNulty MA	April 2019 Orlando, FL

PUBLICATIONS

UPCOMING DISSERTATION

Herriott HL. 2022. *What's my role again? Cultivating interprofessionalism, role knowledge, and role clarity through case-based learning.* Indianapolis, IN: Indiana University School of Medicine.

TEXTBOOK CONTRIBUTIONS

Herriott HL, Robertson KA, Noblitt B. 2020. Cervical (Neck) Local Anesthesia Techniques. In: Applied Head and Neck Anatomy for the Facial Cosmetic Surgeon. Indianapolis, Indiana: Springer. pp. 41–52.

PEER-REVIEWED PUBLICATIONS

Herriott HL, McNulty MA. Virtual learning impacts communication & teamwork. *Clinical Teacher*. Submitted February 2022.

Roach VA, Mi M, Mussell J, Van Nuland SE, Lufler RS, DeVeau K, Dunham SM, Husmann P, **Herriott HL**, Edwards DN, Doubleday AE, Wilson BM, Wilson AB. 2021. Correlating spatial ability with anatomy assessment performance: A meta-analysis. *Anatomical Science Education*. 14(3): 317-329.

TITLES UNDER REVIEW

Herriott HL, Byram JN, Gunderman RB, McNulty MA. Targeted small group case-based learning sessions improve role knowledge among medical and healthcare professional students. *Anatomical Science Education*. Submitted December 2021.

AWARDS & RECOGNITIONS

EXTERNAL

Graduate Student/Postdoc Education Research Presentation Award Finalist Awarded by the American Association for Anatomy at the Annual Experimental Biology Conference	April 2021
Graduate Student/Postdoc Education Research Poster Finalist* Awarded by the American Association for Anatomy at the Annual Experimental Biology Conference	April 2020
Student Travel Award (\$350)* Awarded by the American Association for Anatomy at the Annual Experimental Biology Conference	April 2020
Graduate Student/Postdoc Education Research Poster Award Finalist Awarded by the American Association for Anatomy at the Annual Experimental Biology Conference	April 2019
Student Travel Award (\$250) Awarded by the American Association for Anatomy at the Annual Experimental Biology Conference	April 2019

INTERNAL

Outstanding Learner Oral Presentation Award Winner Awarded by the IUSM Education Day abstract judges	April 2022
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* Conference cancelled due to the COVID-19 pandemic

Outstanding Learner Oral Presentation Award Winner Awarded by the IUSM Education Day abstract judges	April 2021
Graduate and Professional Education Grant (\$500) Awarded by the IUPUI Graduate and Professional Student Government	Spring 2020
David B. Burr Anatomical Education Fellowship (\$250) Awarded by Indiana University School of Medicine's Department of Anatomy, Cell Biology, & Physiology for demonstrating excellence in education & leadership	2019-2020
IUSM Graduate Student Travel Award (\$333) Awarded by the IUSM Graduate Student Travel Grant Committee	Spring 2019

ADDITIONAL RESEARCH PROJECTS

INDIANA UNIVERSITY SCHOOL OF MEDICINE, INDIANAPOLIS, IN

Gorilla Anatomy Atlas 2018

PIs: Andrew S. Deane, PhD & Jason M. Organ, PhD

Aim: To create the first comprehensive anatomical atlas of gorillas for human physicians to utilize when called upon to perform surgeries & other medical interventions on gorillas in captivity

Roles: Dissected three gorillas (two males, one female) & documented unique features of their anatomy for this comprehensive atlas

THE PENNSYLVANIA STATE UNIVERSITY, STATE COLLEGE, PA

Modeling the Efficacy of On-Demand Pre-Exposure Prophylaxis (PrEP) to Prevent HIV 2015-2017

PI: Jessica M. Conway, PhD

Aim: To create an accurate mathematical model in order to predict the efficacy of an on-demand PrEP regimen to prevent HIV compared to current CDC recommendations

Roles: Coded compartmental models, using R, that reflect both the dynamics of infectious disease within an organism & drug absorption rates in pertinent tissues

MENTORING EXPERIENCE

REGIS UNIVERSITY SCHOOL OF PHYSICAL THERAPY, DENVER, CO

Academic Advisor 2022-Current

Aim: Provide support, mentorship, and guidance to 3-5 incoming students annually through to graduation from their 3-year program as well as helping them develop a capstone project.

Type of Mentee: Doctor of Physical Therapy (DPT) students

Student Names & Capstone Projects:

Morgan Sibley, *Capstone: TBD*

Kenny Wang, *Capstone: TBD*

Dylan Wilson, *Capstone: TBD*

INDIANA UNIVERSITY SCHOOL OF MEDICINE, INDIANAPOLIS, IN

Project SEED/STEM Mentor Summer 2020

Aim: Project SEED/STEM provides highly motivated, economically disadvantaged high school students with an internship opportunity to gain hands-on research experience

Type of Mentee: High school senior

Student Name: Lillian He

Project: Exploring Clinicians' Perceptions of Interprofessional Roles

THE PENNSYLVANIA STATE UNIVERSITY, STATE COLLEGE, PA

Learning (Lecture) Assistant Coordinator 2016-2017

Roles: Reviewed learning assistant (LA) applications, interviewed & selected all LAs for the year, as well as led weekly LA meetings aimed at: 1) reviewing upcoming course content, 2) facilitating discussions on how to guide students towards answers, & 3) providing advice on teaching techniques to LAs

Type of Mentee: 20 undergraduate students

Course: Function & Development of Organisms (BIOL 240W)

SERVICE, OUTREACH, & COMMITTEE INVOLVEMENT

EXTERNAL

American Association for Anatomy

Spring 2021

Social Media Ambassador

Promoted various AAA events before & during the Annual Experimental Biology Conference on Twitter

INTERNAL**Regis University School of Physical Therapy Curriculum Committee**

2022-Present

Committee Member

Regis University RHCHP Interprofessional Education Committee

2022-Present

Committee Member

Regis University School of Physical Therapy Team Climate Strategic Planning Committee

2022-Present

Committee Member

Department of Anatomy, Cell Biology, & Physiology, Indiana University School of Medicine

Spring 2021

Instructor for In-Person Laboratory Sessions for 2020 Anatomy for Healthcare Professionals Students

Facilitated 8 half-day cadaver-based review sessions for DPT, MPAS, & OTD students that were unable to participate in dissection the previous summer due to the COVID-19 pandemic

Indiana University School of Medicine Graduate Student Advocacy Association

2019-2021

Graduate Student Representative for the Anatomy – Education Track PhD Program

Appointed by the Director of the Anatomy – Education Track PhD Program for two consecutive terms

Indiana University School of Medicine Graduate Student Travel Grant Committee

2019-2021

Committee Member (4 cycles)

Appointed by the Director of the Anatomy – Education Track PhD Program

Judged graduate student travel grant applications & awarded grants to the most competitive applicants

Graduate Studies Department, Indiana University School of Medicine

Fall 2020

Academic Misconduct Advisory Committee Member

Served as a student committee member for an academic misconduct advisory committee investigation

Indiana University-Purdue University Indianapolis Center for Research & Learning

Student Summer Virtual Poster Symposium Judge

July 2020

Served as a judge for virtual poster presentations on molecular & cellular biology-related research by undergraduate & post-baccalaureate students

Student Research & Creative Activities Day Virtual Poster Session Judge

April 2020

Served as a judge for virtual poster presentations on osteological research by undergraduate & post-baccalaureate students

PROFESSIONAL ORGANIZATION MEMBERSHIP

American Association for Anatomy (formerly American Association of Anatomists)

2018-Present

International Association of Medical Science Educators

2020-Present

Physician Assistant Education Association

2021-Present

Human Anatomy & Physiology Society

2017-2018

CONFERENCES ATTENDED**EXTERNAL**

Experimental Biology – American Association for Anatomy Annual Meeting

April 2022

American Association for Anatomy Regional Meeting

December 2021

Experimental Biology – American Association for Anatomy Annual Meeting

April 2021

International Association for Medical Science Educators Annual Meeting

June 2020

Experimental Biology – American Association for Anatomy Annual Meeting*

April 2020

Experimental Biology – American Association for Anatomy Annual Meeting

April 2019

Human Anatomy & Physiology Society Annual Meeting

May 2018

INTERNALIndiana University School of Medicine 3rd Annual Education Day

April 2022

Indiana University School of Medicine Student Research Symposium

June 2021

* Conference cancelled due to the COVID-19 pandemic

Indiana University School of Medicine 2 nd Annual Education Day	April 2021
Indiana University Center for Teaching & Learning's Scholarly Teaching Symposium	October 2020
Indiana University-Purdue University Indianapolis Student Summer Virtual Poster Symposium	July 2020
Indiana University-Purdue University Indianapolis Student Research & Creative Activities Day	April 2020
Indiana University School of Medicine 1 st Annual Education Day	February 2020