



SCHOLARLY CONCENTRATIONS PROGRAM ANNUAL REPORT 2023 – 2024



WELCOME



March 29, 2024 – As I write this letter, I do so with continued appreciation at how incredible our medical students are as 89 have completed their scholarly concentrations and will graduate in May 2024. They will join 148 of their peers who graduated from Indiana University School of Medicine the past three years with a Scholarly Concentration designation on their transcript and an incredible learning experience. Students come to medical school with diverse interests, and our Scholarly Concentrations Program provides an avenue for them to explore these personal interests longitudinally alongside the core medical school curriculum. I'm pleased to report that 94 percent of participants in the Class of 2024 recommend the Scholarly Concentrations Program to first year medical students. I'm not sure of higher praise.

Enrollment in our 17 concentrations remains strong, with about half at regional campuses. Of students participating in a regional campus concentration, 90 percent are in their home campus concentration. Participants are led, mentored and supported by approximately 250 faculty, staff and community members. A majority are from IU School of Medicine, and others from esteemed institutions, including Purdue's Weldon School of Biomedical Engineering, the Kinsey Institute, the School of Liberal Arts at IUPUI, the University of Notre Dame, and IU's Richard M. Fairbanks School of Public Health and Kelley School of Business. This year, co-directors met in Indianapolis for a program retreat where they reviewed the "state of the program" and found it strong. They also generated ideas to enhance it. We could not deliver this program without the incredible support and dedication of these colleagues.

With Step 1 now Pass/Fail, students are looking for opportunities to stand out in the competition for residencies. I believe our Scholarly Concentrations Program can be a game changer when they are applying for residencies. They complete topic-specific coursework, and engage in scholarly pursuits that include submitting a manuscript for publication and presenting a poster at IU School of Medicine Education Day. They benefit from mentorship to become better prepared leaders in their chosen field and develop professional identity beyond medical knowledge. The topics are of broad interest and applicable to just about any specialty. The Public Health and Business of Medicine concentrations provide a path to dual degrees. The program leverages the unique expertise, strengths, interests and needs of our diverse campuses and communities. This is particularly important for our regional campuses, where the program serves as a tool to help attract and retain students.

During 2023, four of our scholarly concentrations applied for and received a grant funded by federal Health Resources and Services Administration dollars that IU School of Medicine received to support health equity projects involving medical students.

I truly appreciate everyone working diligently to create an enriching program for our students. I want to thank Deb Birnbaum, the program's director, and Michelle Marie Polanco, our program coordinator, for their leadership, management and stewardship that is transforming this program from an early pilot to a more steady state. I am extremely proud of and grateful for them, all of our concentration faculty, staff, and community partners. I applaud the students participating. They, along with our School and communities, are better for it.

Sincerely,

A handwritten signature in blue ink that reads "Paul M. Wallach". The signature is fluid and cursive.

Paul M. Wallach, MD
*Executive Associate Dean
Educational Affairs and Chief Academic Officer*

TABLE OF CONTENTS

Scholarly Concentrations Program Overview	1 – 2
Graduate Spotlights	3 – 16
Graduate Products Published or Accepted	17 –18
The Scholarly Concentrations	19 – 36
Scholarly Works	37
Leadership	38



The Scholarly Concentrations Program is managed with a continuous quality improvement mindset. Key improvements made this year include:

- adjustments and creation of new courses based on students' end-of-course evaluations and other feedback;
- ongoing work with colleagues across IU School of Medicine and Indiana University to identify data, projects, mentors and other resources to scale and support student scholarly work;
- streamlining and refining the program's evaluation plan; and
- streamlining the application and enrollment process through the school's new student information management system.

2023 – 2024 Scholarly Concentrations Update

There is much to be proud of in IU School of Medicine's Scholarly Concentrations Program this year. At the end of the year, more than 400 students were enrolled with around 250 faculty and staff supporting them through program leadership, teaching and mentoring in 17 concentrations across the statewide program.

Eighty-nine members of the Class of 2024 have completed a scholarly concentration. They bring the number of program graduates to 237 since the first six graduated in 2021.

The Scholarly Concentrations Program is meeting its primary goals by:

- 1 increasing student engagement at statewide campuses;
- 2 providing interdisciplinary focus that complements and enhances the core curriculum;
- 3 providing a longitudinal educational experience;
- 4 supporting student scholarship; and
- 5 providing an additional credential to residency applications.

Fourteen concentrations are based at one of the school's nine campuses and three are readily available to students throughout the state. This allows students to dive into a topic of personal interest with a community of like-minded students, faculty, staff, and even, community members. Of the students participating in one of the

10 regional campus concentrations, 90 percent are in their original regional campus concentration. Unlike traditional academic certificates and degrees, Scholarly Concentrations are completed within the four years of medical school, and do not add time or costs to completing an MD degree. Students complete topic-specific courses, a scholarly project, write a manuscript they submit for publication, and present a poster at IU School of Medicine Education Day. So far, 19 students in the Class of 2024 have had a manuscript accepted or published in their concentration topic.

Students who successfully complete the requirements for a Scholarly Concentration earn eight weeks non-clinical elective credit toward graduation and a Scholarly Concentration designation on their transcript, which can also be added to their curriculum vitae and other professional documentation. Graduates are also recognized at Commencement.

Students promote their Scholarly Concentration work to help them stand out in residency applications and interviews. Students report strong interest in their scholarly concentration work in residency interviews.



One thing I noticed during [residency] interviews is a lot of programs really are interested in how you are as a team member.

I think that the scholarly concentration really allowed me to showcase my abilities being involved in a research environment, working with other medical students, advisors like Dr. [Elizabeth] Ryan, other people at the Northwest campus, as well as community members we interviewed. I think it really allowed me to showcase different skills I had gained experience in during the concentration.



Deeb Omari, MD, Pediatrics Resident, McGaw Medical Center of Northwestern University, Scholarly Concentration in Urban Medicine and Health Care Disparities, Northwest-Gary, Class of 2023 graduate

SCHOLARLY CONCENTRATIONS PROGRAM OVERVIEW

Enrollment as of December 31, 2023

Concentration partner information in parentheses

Scholarly Concentrations Program Locations and Enrollment

● Bloomington

Scholarly Concentration:
Human Sexuality and Health
(Kinsey Institute)

Enrollment: 14

Scholarly Concentration:
Medical Education

Enrollment: 6

● Evansville

Scholarly Concentration:
Quality and Innovation in Health Care
(Local health care systems)

Enrollment: 9

● Fort Wayne

Scholarly Concentration:
Health Care Integration and
Healthy Aging
(Regional health care systems)

Enrollment: 6

● Muncie

Scholarly Concentration:
Health Promotion and Disease
Prevention
(Ball State University Clinical Exercise
Physiology Program)

Enrollment: 22

● Northwest-Gary

Scholarly Concentration:
Urban Medicine and Health Care
Disparities
(Community partners)

Enrollment: 43

● South Bend

Scholarly Concentration:
Ethics, Equity and Justice
(University of Notre Dame)

Enrollment: 30

● Terre Haute

Scholarly Concentration:
Rural Health
(Rural health systems)

Enrollment: 15

● West Lafayette

Scholarly Concentration:
Biomedical Engineering and
Applied Medical Technology
(Weldon School of Biomedical
Engineering, Purdue University)

Enrollment: 33

Scholarly Concentration:
Care of Hispanic/Latino Patients

Enrollment: 17

● Indianapolis

Scholarly Concentration:
Biomedical Research

Enrollment: 27

Scholarly Concentration:
Genetics in Medicine

Enrollment: 21

Scholarly Concentration:
Health Information Technology
(Regenstrief Institute)

Enrollment: 3

Scholarly Concentration:
Medical Humanities
(Medical Humanities and Health
Studies, School of Liberal Arts, IUPUI)

Enrollment: 24



● Statewide

Based in Indianapolis but available
from any campus

Scholarly Concentration:
Business of Medicine
(IU Kelley School of Business)

Enrollment: 63

Scholarly Concentration:
Public Health
(Richard M. Fairbanks School of
Public Health)

Enrollment: 60

Scholarly Concentration:
Religion and Spirituality in Medicine

Enrollment: 12



The following students in the IU School of Medicine Class of 2024 completed all their Scholarly Concentrations Program requirements and earned a Scholarly Concentrations designation. Congratulations!

Biomedical Engineering and Applied Medical Technology

Aditya Desai*

Campus: West Lafayette

Project: Coarctation Angioplasty in Young Children: Does IMPACT Registry Data Accurately Reflect Clinical Outcomes?

Mentor: Mark Hoyer, MD

Residency: General Surgery, University of Michigan Hospital



Alan-Thomas Trinh*

Campus: South Bend

Project: Trans-Omic Knowledge Transfer Modeling Informs Gut Microbiome Biomarkers of Anti-TNF Resistance in Ulcerative Colitis

Mentor: Doug K. Brubaker, PhD

Residency: Orthopaedic Surgery, Indiana University School of Medicine



Christopher Dalloul*

Campus: Terre Haute

Project: Osteoclast-Mediated Bone Loss Observed in a COVID-19 Mouse Model

Mentor: Melissa Kacena, PhD

Residency: General Surgery, Eastern Carolina University Health Medical Center



Grant Tomlin

Campus: West Lafayette

Project: Preclinical Validation of NeoWarm, a Low-Cost Infant Warmer and Carrier Device, to Ameliorate Induced Hypothermia in Newborn Piglets as Models for Human Neonates

Mentor: Jacqueline C. Linnes, PhD

Residency: Medicine-Pediatrics, University of Oklahoma College of Medicine



John Sakaleros

Campus: West Lafayette

Project: Identifying and Quantifying Features of Resting Tremor Using Power Spectral Density of Wrist Kinematic Signals From Inertial Measurement Units

Mentor: Anne B. Sereno, PhD

Residency: Internal Medicine, Indiana University School of Medicine



Sunland Gong*

Campus: Terre Haute

Project: Machine Embroidery of Light-Emitting Textiles With Multicolor Electroluminescent Threads

Mentor: Chi Hwan Lee, PhD



*See page 17 for Products Published or Accepted

GRADUATE SPOTLIGHTS

Biomedical Research

Brandon Sizemore

Campus: Indianapolis

Project: Assessing Interest Among Providers and Learners in Education on the Environmental Impacts of Anesthesia

Mentor: Tanna Boyer, DO

Residency: Anesthesiology, Cedars-Sinai Medical Center



Erica Geers*

Campus: Indianapolis

Project: Short- and Long-Term Kidney Complications in Children with Bronchopulmonary Dysplasia

Mentor: Michelle Star, MD

Residency: General Surgery, Memorial Health University Medical Center



Mira Prabhakar

Campus: Indianapolis

Project: Understanding a Student Run Free Clinic's Impact on Diabetes Care

Mentor: Javier Sevilla-Martir, MD

Residency: Surgery-Preliminary, Indiana University School of Medicine



Ethan Cornwell

Campus: Indianapolis



Business of Medicine

Albert Brougham

Campus: Northwest-Gary

Project: An Assessment of ChatGPT's Performance as a Patient Counseling Tool: Exploring the Potential Integration of Large Language Model-based ChatBots into Online Patient Portals

Mentor: Paul Dexter, MD

Residency: Transitional, Ascension St. Vincent Hospital



Alexander Daugherty

Campus: Indianapolis

Project: Improving Brand Awareness and Financial Sustainability for GoBabyGo!: A Pediatric Rehabilitation Nonprofit

Mentor: Todd Saxton, PhD

Residency: Pediatrics, Ascension St. Vincent Hospital



Amna Yaqub

Campus: Indianapolis

Project: The Medicalization of Wellness: Proposals for Further Regulation of the Wellness Industry in the United States

Mentor: Todd Saxton, PhD

Residency: Internal Medicine, Indiana University School of Medicine



Austin Natalie

Campus: Bloomington

Project: Voices in Care: A Comprehensive Analysis of Nurse Perceptions of the Indiana State Nurses Association

Mentor: Todd Saxton, PhD

Residency: Internal Medicine, of Florida College of Medicine-Shands Hospital



University

*See page 17 for Products Published or Accepted

Business of Medicine, continued

Bhumi Patel

Campus: Bloomington

Project: Voices in Care: A Comprehensive Analysis of Nurse Perceptions of the Indiana State Nurses Association

Mentor: Todd Saxton, PhD

Residency: Internal Medicine, Loyola University Medical Center



Bryan Ko

Campus: Bloomington

Project: Improving Brand Awareness and Financial Sustainability for GoBabyGo!: A Pediatric Rehabilitation Nonprofit

Mentor: Todd Saxton, PhD

Residency: Physical Medicine & Rehabilitation, Detroit Medical Center



Charles Price

Campus: Indianapolis

Project: An Assessment of ChatGPT's Performance as a Patient Counseling Tool: Exploring the Potential Integration of Large Language Model-based ChatBots into Online Patient Portals

Mentor: Paul Dexter, MD

Residency: Internal Medicine, Ascension St. Vincent Hospital



Jackson Griffith-Linsley

Campus: Indianapolis



Joshua Thomson

Campus: Indianapolis



Juan Sanchez Castro

Campus: Indianapolis

Project: Improving Brand Awareness and Financial Sustainability for GoBabyGo!: A Pediatric Rehabilitation Nonprofit

Mentor: Todd Saxton, PhD



Kyle Burton

Campus: Terre Haute

Project: An Assessment of ChatGPT's Performance as a Patient Counseling Tool: Exploring the Potential Integration of Large Language Model-based ChatBots into Online Patient Portals

Mentor: Paul Dexter, MD



Matthias Ebeyer

Campus: Bloomington

Project: Voices in Care: A Comprehensive Analysis of Nurse Perceptions of the Indiana State Nurses Association

Mentor: Todd Saxton, PhD

Residency: Emergency Medicine, Ohio State University Medical Center



Paul Muldoon

Campus: Indianapolis



Care of Hispanic/Latino Patients

Joseph Clemens

Campus: West Lafayette

Project: Examining Interpretation Services for Spanish-Speaking Surgical Patients in an Urban Hospital Setting

Mentor: Ashley D. Meagher, MD, MPH, FACS; Raymundo Munguia-Vazquez, MD, PhD

Residency: Pediatrics, University of Virginia



Kristen Lentsch

Campus: West Lafayette

Project: Influence of Medical Interpreters on the Healthcare Experiences of Hospitalized Spanish-Speaking Patient

Mentor: Ashley D. Meagher, MD, MPH, FACS; Raymundo Munguia-Vazquez, MD, PhD

Residency: Obstetrics-Gynecology, Medical College of Wisconsin Affiliate Hospitals



Sophia Bertot

Campus: West Lafayette

Project: Do Hispanic Patients Who Require a Medical Interpreter Understand the Nature and Severity of Their Glaucoma Diagnosis?

Mentor: Louis B. Cantor, MD

Residency: Ophthalmology, University of Alabama



It was a great opportunity for me to pursue an area of interest outside of the typical medical school curriculum. It also was helpful in learning how to do scholarly work, which will be important in residency and my career.

Class of 2022 Scholarly Concentration in Care of Hispanic/Latino Patients Graduate, West Lafayette

By virtue of their work with faculty, peers, and/or local collaborators,

85%

of program participants feel engaged with their campus



Ethics, Equity and Justice

Caitlyn Mulcahey

Campus: South Bend

Project: Investigating Lost to Follow Up Rates in Primary Open Angle Glaucoma: A Marker of Disparities

Mentor: Louis B. Cantor, MD

Residency: Ophthalmology, University of Louisville



Eilis Kilbride

Campus: South Bend

Project: Comparing a Hospital Policy About ER Engagement with Law Enforcement with the Parallel Police Policy About Such Engagement

Mentor: Ji Seon Song, JD



Jack Hibbard

Campus: South Bend

Project: Healthcare Experiences of Formerly Incarcerated People in Indiana

Mentor: Justin McDevitt, JD

Residency: Medicine-Primary, University of Virginia



Mary Holohan

Campus: South Bend

Project: Sustainable Horizons: Insights from Interviews with Stakeholders in Leading Healthcare Systems

Mentor: Brianne Brenneman, MPH

Residency: Plastic Surgery (Integrated), LSU School of Medicine



Megan Eigsti

Campus: South Bend

Project: Sustainable Horizons: Insights from Interviews with Stakeholders in Leading Healthcare Systems

Mentor: Joseph Kotva, PhD

Residency: Obstetrics-Gynecology, University of Louisville School of Medicine



Rebecca McCartney

Campus: South Bend

Project: Healthcare Experiences of Formerly Incarcerated People in Indiana

Mentor: Justin McDevitt, JD

Residency: Neurology, Rush University Medical Center



Rylee Friel

Campus: South Bend

Project: Diversity-Driven Initiatives in a Radiology Residency Program: A Historical Timeline and Analysis of Demographic Changes

Mentor: Leah Sieck, MD; Lauren Ladd, MD

Residency: Radiology-Diagnostic, University of Michigan Hospitals



GRADUATE SPOTLIGHTS

Genetics in Medicine

Ashwin Biju*

Campus: Indianapolis

Project: A Pilot Study of ADRA2A Genotype Association With Doses of Dexmedetomidine for Sedation in Pediatric Patients

Mentor: Emma M. Tillman, PharmD, PhD; Todd C. Skaar, PhD

Residency: Internal Medicine, Indiana University School of Medicine



Camilo Suescum

Campus: Indianapolis

Project: Management of Bleeding During Very Severe Venous-occlusive Disease Following Allogeneic Hematopoietic Cell Transplant in a Patient with JMML

Mentor: Lindsay J. Blazin MD, MPH; April L. Rahrig, DO

Residency: Pediatrics, Nationwide Children's Hospital



Christian Karcher*

Campus: Indianapolis

Project: Successful Sperm Retrieval in a Male with Azoospermia, Partial AZFa Deletion, and CFTR Mutation: A Case Report and Literature Review

Mentor: Helen L. Bernie, DO, MPH

Residency: Surgery-Preliminary, University of Illinois College of Medicine



Folami Morris

Campus: Indianapolis

Project: HPV L1 Vaccines as Therapeutic Agents

Residency: Child Neurology, University Hospitals-Jackson



Health Care Integration and Healthy Aging

Michael R Weber

Campus: Fort Wayne

Project: Impact of Gabapentin and Pregabalin on Neurological Outcome After Ischemic Stroke

Mentor: Fen-Lei Chang, MD, PhD

Residency: Psychiatry, Indiana University School of Medicine



I'm interested in the physical, emotional and psychological changes that occur as people age and how health care systems might improve to optimize well-being throughout the stages of life. Participating in this scholarly concentration will help me become a better member of an interprofessional health care team, as well as gain a stronger understanding of the unique needs of an aging population.

Health Information Technology

Jay Chopra

Campus: Bloomington



Health Promotion and Disease Prevention

Cameran Jones

Campus: Muncie

Project: Retrospective Analysis of EMS Calls for Opioid Overdose and Geospatial Relationship to Location of Naloxone Access

Mentor: Lynn Witty, MD; Larry Fromm, PhD

Residency: Internal Medicine, Loyola University Medical Center



Catherine Meador

Campus: Fort Wayne

Project: Home Gardening and the Barriers We Don't Plant On

Mentor: Lynn Witty, MD

Residency: Obstetrics-Gynecology, University of Arizona College of Medicine



Colin Harris

Campus: Muncie

Project: Retrospective Analysis of EMS Calls for Opioid Overdose and Geospatial Relationship to Location of Naloxone Access

Mentor: Larry Fromm, PhD

Residency: Emergency Medicine, Rutgers-Community Medical Center



Colton Southard-Goebel

Campus: Muncie

Project: Retrospective Analysis of EMS Calls for Opioid Overdose and Geospatial Relationship to Location of Naloxone Access

Mentor: Larry Fromm, PhD

Residency: Anesthesiology, Medical University of South Carolina



Jordan Koczenasz

Campus: Muncie

Project: Retrospective Analysis of EMS Calls for Opioid Overdose and Geospatial Relationship to Location of Naloxone Access

Mentor: Lynn Witty, MD; Larry Fromm, PhD

Residency: Internal Medicine, Loyola University Medical Center



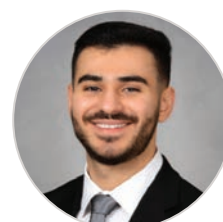
Manhalh Bakdash

Campus: Muncie

Project: Retrospective Analysis of EMS Calls for Opioid Overdose and Geospatial Relationship to Location of Naloxone Access

Mentor: Lynn Witty, MD

Residency: Radiology-Diagnostic, Indiana University School of Medicine



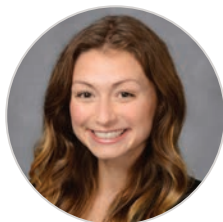
Mary Ertel

Campus: Indianapolis

Project: Identifying Barriers to Nutrition in Indiana

Mentor: Lynn Witty, MD; Natalie Kruzliakova, PhD, Department of Nutrition & Health Science, Ball State University

Residency: Internal Medicine, Ascension St. Vincent Hospital



*See page 17 for Products Published or Accepted

GRADUATE SPOTLIGHTS

Human Sexuality and Health

Brianna Mahnke*

Campus: Bloomington

Project: Sexual Communication Self-Efficacy and PrEP Literacy Helps to Meet HIV Prevention Outcomes Among Black and Latinx Individuals

Mentor: Greg Carter, PhD

Residency: Psychiatry, Temple University Hospital



Sydney Lovins*

Campus: Bloomington

Project: American Singles Attitudes toward Future Romantic/Sexual Partners' COVID-19 Vaccination Status: Sizeable Evidence for Both Vigilance and Indifference in a National Sample

Mentor: Justin Garcia, PhD



Tari Kurman

Campus: Bloomington

Project: Medical Students Perspectives on Transgender Care Legislation and its Impact on Medical Residency Applications

Mentor: Jessica J. Hille, JD, PhD

Residency: Pediatrics, University of Colorado School of Medicine



Victoria Cook

Campus: Bloomington

Project: Can a Sex-Positive Sex Education Intervention Reduce Rape-Supportive Attitudes? Formative Research, Pilot Randomized Controlled Trial, and Evaluation of Self-Selection Bias



Medical Education

Emily Merritt

Campus: Indianapolis

Project: Integrated Case-Based Learning Session for Breast and Upper Limb Anatomy

Mentor: Jessica Byram, PhD

Residency: Pediatrics, Cincinnati Childrens Hospital Medical Center



94% of graduating students agreed the program strengthened their CV/interviews during the residency search

Medical Humanities

Aish Thamba*

Campus: Bloomington

Project: For Watson, Solving Cancer Wasn't So Elementary: Prospects for Artificial Intelligence in Radiology

Mentor: Richard Gunderman, MD

Residency: General Surgery, Henry Ford Jackson Hospital



Jenna Jones

Campus: Terre Haute

Project: Visibility and Mentorship Can Improve Recruitment of Qualified Diverse Orthopaedic Applicants

Mentor: Lawrence Wells, MD

Residency: Orthopaedic Surgery, Indiana University School of Medicine



Mary Etling

Campus: Indianapolis

Project: The Use of Protective Orders to Obviate Investigations of Healthcare in Indiana Correctional Facilities

Mentor: Jane Hartsock, JD

Residency: Pediatrics, University of Minnesota Medical School



Matthew Hodges*

Campus: Indianapolis

Project: The End Is Nothing: Death in Domestic Spaces in "Old Mrs. Harris" and *The Death of Ivan Ilyich*

Mentor: Dianne Prenatt, PhD

Residency: Family Medicine, Mountain AHEC



Nicholas O'Connor

Campus: Indianapolis

Project: A Survey of Parental Experiences While Viewing MRI Images at a Fetal Care Center

Mentor: Zeynep Salih, MD, FAAP

Residency: Radiology-Diagnostic, University of Kansas School of Medicine



Samantha Rodriguez

Campus: South Bend

Project: The Influence of Relationships and Social Media on the Wellness of Adolescent and Young Adult Survivors of Pediatric Cancer

Mentor: Jane Hartsock, JD; Emily Beckman, DMH

Residency: Pediatrics, University of Chicago Medical Center



Samira Kouchakzadeh

Campus: Evansville

Project: : The Nursing Dose: Diverting Medication Into the Patient

Mentor: Jane A. Hartsock, JD

Residency: Psychiatry, University of Pittsburgh Medical Center



Taruni Pandhiri

Campus: Muncie

Project: A Scoping Review Examining the Interactions of Racial Minorities in the NICU/PICU and their Physicians – A Modern Day Jean Beicke

Mentor: Kenzie Mintus, MD

Residency: Internal Medicine, University of Nebraska Medical Center



*See page 18 for Products Published or Accepted

Public Health

Amira Nafiseh*

Campus: Indianapolis

Project: Pepea Pamoja: Co-development of a Wellbeing and Behavioral Training Program for Caregivers of Young Children with Autism in Low-Resource Settings of Kenya and the U.S.

Mentor: Megan McHenry, MD

Residency: Pediatrics, University of California-San Francisco



Cassandra Anderson

Campus: Fort Wayne

Project: How Far We Go for Surgery: Distance to Pediatric Surgical Care in Indiana

Mentor: Brian Gray, MD, FACS

Residency: General Surgery, Vanderbilt University Medical Center



Collin Wilkins

Campus: Indianapolis

Project: An Assessment of Nutritional Quality of Foods Provided in a Midwestern Food Pantry and Food Consumption Habits among its Clients

Mentor: Shellye Suttles, PhD

Residency: Internal Medicine, Indiana University School of Medicine



Courtney Seigel

Campus: Indianapolis

Project: Patient Satisfaction with Teleurology Across Neurologic Conditions

Mentor: Linda Williams, MD



Doriann Alcaide

Campus: Indianapolis

Project: Socioeconomic Disparities in Pain Management After Total Knee Arthroplasty

Mentor: Sylk Sotto-Santiago, MBA, MPS, EdD



Joseph Ballard*

Campus: Indianapolis

Project: Using Prescription Opioids Throughout a Traumatic Injury Recovery: A Qualitative Exploratory Study of Adolescents in a Midwestern State

Mentor: Olena Mazurenko, MD, PhD

Residency: Internal Medicine, University of Illinois College of Medicine



Neal Patel**Campus:** Indianapolis**Project:** Implementation of RedCap Data Systems in Kenyan Psychiatric Rehabilitation: A Community Case Study**Mentor:** Matthew Turissini, MD**Residency:** Neurology, Duke University Medical Center**Nida Khan****Campus:** Indianapolis**Project:** Co-Development and Testing of a Culturally Tailored Telehealth Mental Health Intervention**Mentor:** Jill Connors, PhD**Sophia Pardo****Campus:** Indianapolis**Project:** Treatment Volume, Quality of Care and Survival for Locally Advanced Cervical Cancer**Mentor:** Jordan Holmes, MD, MPH**Residency:** Pediatrics, Miami University Jackson Health System**Taylor Luster*****Campus:** Indianapolis**Project:** Slipped Capital Femoral Epiphysis, Food Deserts, Poverty, and Urban/Rural Residence: Is There a Link?**Mentor:** Randall Loder, MD**Victoria Rone****Campus:** Evansville**Project:** Increased Depression and Anxiety Among Remote Workers During the COVID-19 Pandemic: A Longitudinal cohort study in Southwest Indiana**Mentor:** Kara Garcia, PhD**Residency:** Obstetrics-Gynecology, University of Cincinnati Medical Center**Zane Duke****Campus:** Indianapolis**Project:** The SED Index: A Brief Self-Report Measure of Socioeconomic Disadvantage**Mentor:** Kurt Kroenke, MD**See page 18 for Products Published or Accepted*

Religion and Spirituality in Medicine

Anthony Williams

Campus: Bloomington
Project: Team Based Spirituality:
A Concept Analysis
Mentor: Alex Lion, DO
Residency: Pediatrics,
University of Utah Health



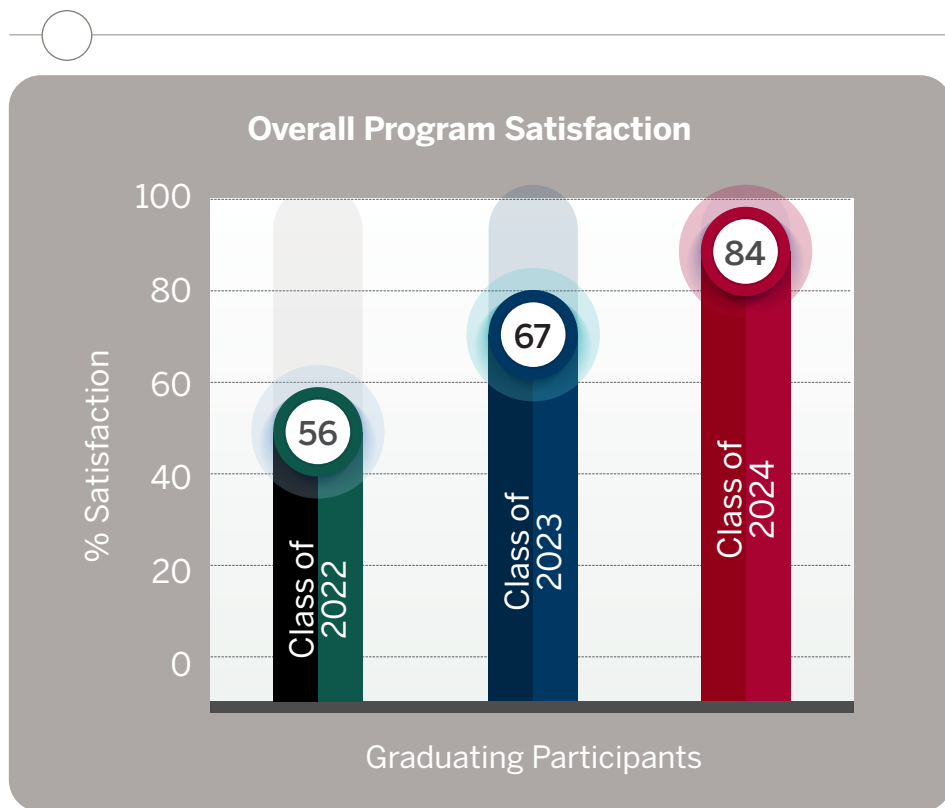
Evin George

Campus: Evansville
Project: Team Based Spirituality:
A Concept Analysis
Mentor: Alex Lion, DO



Nirupama Devanathan

Campus: Indianapolis
Project: Religiosity, Spiritual- and
Avoidant- Coping Among Breast Cancer
Survivors Receiving Acceptance and
Commitment Therapy
Mentor: Alex Lion DO and
Shelley Johns PhD
Residency: Ophthalmology, Mayo Clinic



Rural Health

Benjamin Herman

Campus: Terre Haute

Project: Perceived Barriers Among Physicians in Utilization of Mental Health Services: Evaluating the Impact of Rural and Urban Settings

Mentor: Robin Danek PhD, MPH; Ellen Ireland, PhD, MPH

Residency: Family Medicine, Franciscan Health



Brent McCreary

Campus: Northwest-Gary

Project: Self-Stigma vs. Perceived Public Stigma Toward Mental Illness in Rural Adults

Mentor: Robin Danek, PhD, MPH

Residency: Internal Medicine, Indiana University School of Medicine



Katelyn Lawson

Campus: Terre Haute

Project: Perceived Barriers Among Physicians in Utilization of Mental Health Services: Evaluating the Impact of Rural and Urban Settings

Mentor: Robin Danek PhD, MPH; Ellen Ireland, PhD, MPH



Kathryn Smeltzer

Campus: Terre Haute

Project: Point of Care Ultrasound Training with Musculoskeletal Evaluation Uptake at Rural Clinics

Mentor: Ellen Ireland, PhD, MPH

Residency: Emergency Medicine, Eastern Carolina University Health Medical Center



Mason Tollar

Campus: Terre Haute

Project: Point of Care Ultrasound Training with Musculoskeletal Evaluation Uptake at Rural Clinics

Mentor: Ellen Ireland, PhD, MPH



Morgan Black

Campus: Terre Haute

Project: Attitudes, Beliefs, and Awareness of Palliative Care Among Rural Patients with Chronic Diseases

Mentor: Ellen Ireland, PhD, MPH

Residency: Urology, Indiana University School of Medicine



Madelynne Wright

Campus: Terre Haute



Urban Medicine and Health Care Disparities

Alanna Hooper

Campus: Northwest-Gary

Project: Maternal Morbidity and Mortality of Preeclampsia in African American Women

Mentor: Jennelle D. Richardson, PhD

Residency: Internal Medicine-Preliminary, Advocate Health Care



Chinade Roper

Campus: Northwest-Gary

Project: What a Difference a Year Makes: A Snapshot of the Vaccination, Hospitalizations, and Positivity Rates for SARS-Cov 2 Across the State of Indiana

Mentor: Amy Han, PhD

Residency: Urology, Indiana University School of Medicine



Daniel Green

Campus: Northwest-Gary

Project: Retrospective Analysis of COVID-19 Pandemic Impact on Breast Cancer Screening at Urban Community Hospital: A Longitudinal Perspective

Mentor: Amy Han, PhD

Residency: Pediatrics, University of Chicago Medical Center



Hunter McCollum*

Campus: Northwest-Gary

Project: Vets Restoring Vets: A Community-Based Participatory Assessment of Operation Combat Bikesaver Innovative Veteran-Led Peer Support Program

Mentor: Baraka Muvuka PhD

Residency: Neurology, Brooke Army Medical Center San Antonio



Maryam Sabir*

Campus: Northwest-Gary

Project: Analysis of COVID-19 Case Demographics and Disease Outcomes in Gary, Indiana

Mentor: Amy Han, PhD

Residency: Internal Medicine, Loyola University Medical Center



Mohamed Aldallal*

Campus: Northwest-Gary

Project: The Impacts of the COVID-19 Pandemic on Youth Violence: Insights from Professional Key Informants

Mentor: Elizabeth Ryan, EdD

Residency: Radiology-Diagnostic, University of Chicago Medical Center



Sean O'Brien

Campus: Northwest-Gary

Project: Myocarditis in the Presence of Respiratory Syncytial Virus (RSV) Infection in an 83-year-old Woman

Mentor: Amy Han, PhD

Residency: Internal Medicine, Indiana University School of Medicine



Yazan Al-Tarshan*

Campus: Northwest-Gary

Project: Analysis of COVID-19 Case Demographics and Disease Outcomes in Gary, Indiana

Mentor: Amy Han, PhD

Residency: Anesthesiology, Loyola University Medical Center



*See page 18 for Products Published or Accepted

Biomedical Engineering and Applied Medical Technology

Christopher Dalloul: [Awosanya OD, Dalloul CE, Blosser RJ, Dadwal UC, Carozza M, Boschen K, Klemsz MJ, Johnston NA, Bruzzaniti A, Robinson CM, Srour EF, Kacena MA. Osteoclast-mediated bone loss observed in a COVID-19 mouse model. Bone. 2022 Jan;154:116227. doi: 10.1016/j.bone.2021.116227. Epub 2021 Oct 2. PMID: 34607050; PMCID: PMC8486589.](#)

Sunland Gong: [Chang T, Akin S, Cho S, Lee J, Lee SA, Park T, Hong S, Yu T, Ji Y, Yi J, Gong SL. In Situ Spray Polymerization of Conductive Polymers for Personalized E-textiles. ACS nano. 2023 Nov 7;17\(22\):22733-43.](#)

[Cho S, Chang T, Yu T, Gong SL, Lee CH. Machine embroidery of light-emitting textiles with multicolor electroluminescent threads. Sci Adv. 2024 Jan 5;10\(1\):eadk4295. doi: 10.1126/sciadv.adk4295. Epub 2024 Jan 3. PMID: 38170779; PMCID: PMC10796113.](#)

Alan Trinh: [Trinh A, Ran R, Brubaker DK. Trans-Omic Knowledge Transfer Modeling Infers Gut Microbiome Biomarkers of Anti-TNF Resistance in Ulcerative Colitis. Pac Symp Biocomput. 2023;28:287-298. PMID: 36540985.](#)

Aditya Desai: [Desai AP, Hoyer MH. Coarctation Angioplasty in Young Children: Does IMPACT Registry Data Accurately Reflect Clinical Outcomes? Pediatr Cardiol. 2023 May 27. doi: 10.1007/s00246-023-03179-w. Epub ahead of print. PMID: 37243748.](#)

Biomedical Research

Erica Geers: [Short- and Long-Term Kidney Complications in Children with Bronchopulmonary Dysplasia, Pediatric Pulmonology. Accepted, awaiting publication.](#)

Genetics in Medicine

Ashwin Biju: [Katherine A Gallaway, Todd C Skaar, Ashwin Biju, James Slaven, Emma M Tillman. A pilot study of ADRA2A genotype association with doses of dexmedetomidine for sedation in pediatric patients. Pharmacotherapy 2022. 2022; 42: 453459. doi: 10.1002/phar.2684. https://doi.org/10.1002/phar.2684](#)

Christian Karcher: [Successful sperm retrieval in a male with azoospermia, partial AZFa deletion, and CFTR mutation: A case report and literature review, Journal of Fertility and Sterility. Accepted; awaiting publication.](#)

Human Sexuality and Health

Brianna Mahnke: [Carter G, Brown L, Mahnke B, Ohmit A, Woodward B. Sexual Communication Self-Efficacy and PrEP Literacy Helps to Meet HIV Prevention Outcomes Among Black and Latinx Individuals. J Prim Care Community Health. 2022;13:21501319221099788.](#)

Sydney Lovins: [Campbell, J. T., Bennett-Brown, M., Marcotte, A. S., Kaufman, E. M., Moscovici, Z., Adams, O. R., Lovins, S., Garcia, J.R., & Gesselman, A. N. \(2023\). American singles attitudes toward future romantic/sexual partners COVID-19 vaccination status: sizeable evidence for both vigilance and indifference in a national sample. Sexuality & Culture.](#)

(continued on next page)

MORE THAN

90%

of program graduates recommend the Scholarly Concentrations Program to first-year medical students.



Continued

Medical Humanities

Matthew Hodges: The End is Nothing: Death in Domestic Spaces in "Old Mrs. Harris" and *The Death of Ivan Ilyich*, The Willa Cather Review. Accepted; awaiting publication.

Aish Thamba: Thamba A, Gunderman RB. For Watson, Solving Cancer Wasn't So Elementary: Prospects for Artificial Intelligence in Radiology. Acad Radiol. 2022 Feb;29(2):312-314. doi: 10.1016/j.acra.2021.11.019. Epub 2021 Dec 18. PMID: 34933804.

Public Health

Joseph Ballard: Mazurenko O, Mills CA, Bandali E, Ballard JH, Bell TM. Using prescription opioids throughout a traumatic injury recovery: A qualitative exploratory study of adolescents in a Midwestern state. Drug Alcohol Depend. 2022 Jul 1;236:109480. doi: 10.1016/j.drugalcdep.2022.109480. Epub 2022 Apr 29. PMID: 35525239.

McCord E, **Ballard JH**, Mills CA, Bandali E, Bell TM, Mazurenko O. The Patient Experience of Adolescents With Traumatic Injuries: Recommendations for Improvement. J Healthc Manag. 2023 May-Jun 01;68(3):187-197. doi: 10.1097/JHM-D-22-00172. PMID: 37159017.

Taylor Luster: Luster T, Gunderson ZJ, Sun S, Loder RT. Slipped Capital Femoral Epiphysis, Food Deserts, Poverty, and Urban/Rural Residence: Is There a Link? J Pediatr Orthop. 2023 Mar 1;43(3):e230-e235. doi: 10.1097/BPO.0000000000002315. Epub 2022 Nov 28. PMID: 36730127.

Amira Nafiseh: Heng YY, Nafiseh A, Oyungu E, Ombitsa AR, Cherop C, McHenry MS. 'I bring her up with love': Perspectives of caregivers of children with neurodevelopmental delays in western Kenya. Child Care Health Dev. 2023 Jan;49(1):201-209. doi: 10.1111/cch.13033. Epub 2022 Jul 20. PMID: 35817560; PMCID: PMC10084169.

Courtney Seigel: Seigel CR, Martin H, Bastin G, Myers LJ, Taylor S, Pike F, Wilkinson J, Williams LS. Patient acceptance of teleneurology across neurologic conditions. J Neurol. 2024 Feb 23. doi: 10.1007/s00415-024-12200-y. Epub ahead of print. PMID: 38388928.

Urban Medicine and Health Care Disparities

Hunter McCollum: Stewart, C. C., Muvuka, B., Hutwagner, W., McCollum, H., Dyer, W. K., & Ryan, E. R. (2023). Vets Restoring Vets: A Community-Based Participatory Assessment of Operation Combat Bikesaver Innovative Veteran-Led Peer Support Program. Journal of Regional Medical Campuses, 6(3).

Yazan Al-Tarshan: Sabir M, Al-Tarshan Y, Snapp C, Brown M, Walker R, Han A, Kostrominova T. Analysis of COVID-19 Case Demographics and Disease Outcomes in Gary, Indiana. International Journal of Environmental Research and Public Health. 2023; 20(18):6729. https://doi.org/10.3390/ijerph20186729

Mohammed Aldallal: Aldallal M, Omari D, Muvuka B, Ryan E. The Impacts of the COVID-19 Pandemic on Youth Violence: Insights from Professional Key Informants. Journal of Regional Medical Campuses. 2023 Jun 14;6(3).

Maryam Sabir: Sabir M, Al-Tarshan Y, Snapp C, Brown M, Walker R, Han A, Kostrominova T. Analysis of COVID-19 Case Demographics and Disease Outcomes in Gary, Indiana. International Journal of Environmental Research and Public Health. 2023; 20(18):6729.

The Scholarly Concentration and associated project have been major hallmarks of my medical school career.

Daniel Green, Scholarly Concentration in Urban Medicine and Health Care Disparities, Northwest-Gary, Class of 2024

Biomedical Engineering and Applied Medical Technology – West Lafayette

A partnership with Purdue University's Weldon School of Biomedical Engineering, this concentration allows students to develop their understanding and application of biomedical engineering for the ethical design, development, and translation of medical and related technologies. No engineering experience is necessary.

Coursework

Introduction to Biomedical Engineering and Translation of Medical Technologies
Introduction to Customer Discovery
Fundamentals of Research and Scholarship

Co-Directors

Ray Munguia-Vazquez, MD, MSc, PhD
Director Pre-Clinical Education (Phase 1),
Clinical Assistant Professor of
Otolaryngology-Head & Neck Surgery

Craig Goergen, PhD
Leslie A. Geddes Associate Professor
of Biomedical Engineering,
Weldon School of Biomedical
Engineering, Purdue University

Aaron Lottes, PhD
Associate Professor of
Engineering Practice,
Weldon School of Biomedical
Engineering, Purdue University

West Lafayette Regional Campus Dean and Director

Matthew Tews, DO, MS

Staff, Mentors & Instructors

Doug Brubaker, PhD
Assistant Professor of Biomedical
Engineering, Purdue University

Deva Chan, PhD
Assistant Professor Biomedical
Engineering, Purdue University

Graham Cooks, PhD
Henry B. Hass Distinguished
Professor – Analytical Chemistry,
Purdue University

Maria Dardalat, PhD
Assistant Professor of Biomedical
Engineering, Purdue University

Melissa Kacena, PhD
Professor, Vice Chair for Research,
Department of Orthopaedic Surgery

Chi Hwan Lee, PhD
Associate Professor of Biomedical
Engineering and Mechanical
Engineering, Purdue University

Jacqueline Linnes, PhD
Marta E. Gross Assistant Professor,
Biomedical Engineering,
Purdue University

Diane Little, BVSc, MSpVM, PhD
Associate Professor, Department
of Basic Medical Sciences,
Purdue University

Matt Lynall
Clinical Professor and Director, Purdue
NSF I-Corps Site and Midwest I-Corps
Node, Krannert School of Management,
Purdue University

Georgia Malandraki, PhD
Associate Professor of Speech,
Language, and Hearing Sciences,
Purdue University

Anne Sereno, PhD
Professor of Psychological Sciences
and Biomedical Engineering, Purdue
University

Riyi Shi, PhD
Mari Hulman George Endowed
Professor of Applied Neuroscience;
Director, Center for Paralysis Research,
College of Veterinary Medicine,
Professor of Basic Medical Science,
Purdue University

Luis Solorio, PhD
Assistant Professor of Biomedical
Engineering, Purdue University

Matthew Ward, PhD
Assistant Professor of Biomedical
Engineering, Purdue University

Cresta Cates
Coordinator Phase 1,
IUSM-West Lafayette

Student Participants

Class of 2027 – All West Lafayette

Anish Bedi
Thomas Gastineau
Jacob Ingram
Caroline Joliet
Isabel Knight
Emily Lothamer
Nathan Pairitz
Shannon Riegler

Class of 2026 – All West Lafayette

Talha Ahmad
Alec Booth
Matthew Cochran
Alexa Jauregui
Sri Charan Kanthala
Stasianne Mallin
Karthik Raja Ravichandran
Megan Sullivan
Kenneth Virgin
Albert Zhang

Class of 2025 – All West Lafayette

Sydney Clark
Austin Darden
Faith Darden
Joseph Lazzara
Katherine Li
Amanda Thayer
Jacob Thomas

Biomedical Research – Indianapolis

In this concentration, students engage in the critical concepts that underpin biomedical and clinical research, acquiring essential research tools including critical reasoning skills, using the scientific method in design of study, research rigor and reproducibility, research ethics, and disseminating research results for peer review. Students will also be introduced to various resources offered through the Indiana Clinical and Translational Sciences Institute to assist with biomedical research, including human subjects training, the Clinical Research Center, and the Project Development Team. Students are required to participate in the Indiana University Medical Student Program for Research and Scholarship during the summer between their first and second years of medical school.

Coursework

Immersion in Clinical and Patient-Oriented Research
 Clinical Research Methods
 Research Topics in Medicine
 Fundamentals of Research and Scholarship

Co-Directors

Erika R. Cheng, PhD
 Assistant Professor of Pediatrics

Lisa G. Yazel, EdD
 Assistant Research Professor of Pediatrics

Staff, Mentors & Instructors

Aaron E. Carroll, MD
 Chief Health Officer of Indiana University

Leonard Buller, MD
 Assistant Professor of Clinical Orthopaedic Surgery

Michael Meneghini, MD
 Professor of Clinical Orthopaedic Surgery

Andrew Otte, PhD
 Research Assistant Professor of Biomedical Engineering

Sikander Khan, DO
 Assistant Professor of Medicine

Michelle Starr, MD
 Professor of Pediatrics

Michael Veronesi, MD, PhD
 Assistant Professor of Radiology & Imaging Sciences

Bo Zhao, PhD
 Assistant Professor of Otolaryngology-Head & Neck Surgery

Jennifer Eikenberry, MD
 Associate Professor of Clinical Ophthalmology

Mark Kelley, PhD
 Betty and Earl Herr Professor of Pediatric Oncology Research

Scott Snyder, PhD
 Associate Professor of Radiology & Imaging Sciences

Troy Markel, MD
 Associate Professor of Surgery

Chandan Sen, PhD
 J. Stanley Battersby Chair and Professor of Surgery, Director of the Indiana Center for Regenerative Medicine and Engineering and Executive Director of the Comprehensive Wound Care Center at IU Health Methodist Hospital

Burcin Ekser, MD, PhD
 Associate Professor of Surgery

Kara Garcia, PhD
 Assistant Research Professor of Radiology & Imaging Sciences and Navigator for the Indiana Clinical and Translational Sciences Institute

Student Participants

Class of 2027
 Eyram Kpenu, Northwest-Gary
(leave of absence, graduate study)

Class of 2026
 Yasmin Ali, Terre Haute
 Christopher Basinski, Indianapolis
(leave of absence, graduate study)
 John Hajj, Indianapolis
 Marie Nour Karam, South Bend
 Janak Mukherji, Bloomington
 Alex Nelson, Northwest
 John Salvas, Indianapolis

Class of 2025 – All Indianapolis
 Larry Chen
 Noah Davis
 Andrew Gauger
 Livia Georgescu
 Samuel Kaefer
 Manpreet Kaur
 Saveda Majety
 Paul Smith
 Mabel Spio
 John Stout
 Carmen Ungureanu

Care of Hispanic/Latino Patients – West Lafayette

This scholarly concentration prepares students to provide culturally sensitive medical care to improve outcomes for the nation's growing Hispanic and Latino population. Additionally, students can improve Spanish-speaking fluency and practice using Spanish in clinical settings.

Coursework

Introduction to Care of Hispanic/Latino Patients
 Latino Community Health Status Evaluation
 Fundamentals of Research and Scholarship

Co-Directors

Ray Munguia-Vazquez, MD, PhD
 Director Pre-Clinical Education (Phase 1), Clinical Assistant Professor of Otolaryngology-Head & Neck Surgery

Cecilia Tenorio, MA
 Senior Lecturer, Director of Minor in Spanish for the Professions, Purdue University

Thomas I. Jones, MD
 Clinical Assistant Professor of Medicine

West Lafayette Regional Campus Dean and Director
 Matthew Tews, DO, MS

Staff, Mentors & Instructors

Françoise Brosseau-Lapré, PhD
 Assistant Professor, Speech Language & Hearing Sciences, Purdue University

Peter S. Pang, MD
 Chair, Department of Emergency Medicine

Ashley D. Meagher, MD
 Assistant Professor of Surgery

Natalia Rodriguez, PhD, MPH, MSE
 Assistant Professor of Public Health, Purdue University

Nikki Messmore, MS
 Program Director of Community & Civic Engagement

Louis B. Cantor, MD
 Professor Emeritus of Glaucoma Research and Education

Antwone Haywood, PhD
 Assistant Dean of Student Affairs

Jessica Maiers, PhD
 Assistant Professor of Medicine

Timothy B. O'Donnell, MD
 Clinical Assistant Professor of Family Medicine

Ally-Khan Somani, MD, PhD
 Assistant Professor of Clinical Dermatology

Cresta Cates
 Coordinator Phase 1, IUSM-West Lafayette

Student Participants

Class of 2027 – All West Lafayette
 Andrew Jamison
 Cesar Mares
 Nicole Sidron

Class of 2026 – All West Lafayette
 Molly Beatty
 Sydney Hornberger
 Victoria Popp
 Hugo Rodriguez

Class of 2025 – All West Lafayette
 Diana Arrocha
 Gloria Garcia
 Ethan Goins
 Cameron Martin
 Alexa Mederos
 Jordan Thomas
 Mary Jane Zeh



Ethics, Equity and Justice – South Bend

This concentration provides the basic skills for separating the morally beneficial from the morally troubling practices of medicine and enables future physicians to better serve and advocate for their most vulnerable patients. A range of topics are covered, including the cultivation of virtue, the role of narratives in ethics, social and environmental justice, social determinants of health, and health equity. This concentration accesses mentors from various regional partners, numerous IU campuses, and from across the U.S.

Coursework

Introduction to Medical Ethics
 Ethics and Health Equity
 Bioethics Journal Club
 Fundamentals of Research and Scholarship

Co-Directors

Rev. Joe Kotva, PhD
 Adjunct Assistant Professor of Medicine

Mark D. Fox, MD, PhD
 Associate Dean and Director, IUSM-South Bend

Staff, Mentors & Instructors

Dave Lassen, PhD
 Community-Engaged Learning Program Director, Center for Social Concerns, University of Notre Dame

Kathleen Eggleston, PhD
 Assistant Professor of Clinical Medicine

Lauren M. Ladd, MD
 Associate Professor of Clinical Radiology & Imaging Sciences

Leah K. Sieck, MD, MS
 Assistant Professor of Clinical Radiology & Imaging Sciences

Louis B. Cantor, MD
 Jay C. & Lucile L. Kahn Professor Emeritus of Glaucoma Research and Education

Brianne Brenneman
 Assistant Professor of Public Health, Goshen College

Paul Shetler Fast
 Executive Director Maple City Health Care Center

Ashley Gilmore, MD
 Assistant Professor of Clinical Medicine and Assistant Vice Chair for Health Equity

Ji Seon Song
 Assistant Professor of Law, The University of California, Irvine School of Law

Center for the Homeless

DePaul Academy

Unity Gardens

La Casa de Amistad

St. Joseph County Health Department

Maple City Health Center

Mosaic Health & Healing Arts

Real Services

Youth Service Bureau

YWCA North Central Indiana

Motels4Now

Imani Unidad

Church Community Services

Center for Community Justice

Student Participants

Class of 2027 – All South Bend

Camryn Barnett
 Kennedy Onuoha
 Medha Somayaji
 Matthew Turner

Class of 2026 – All South Bend

Christopher Abrinko
 Mahmoud Al-Fadhli
 Madeline Andrews
 John Bales
 Caymah Dennis
 Claire Harper
 Jonathan Harris
 Morgan Lain
 Joshua Scott
 Jackson Stone

Class of 2025 – All South Bend

Delaney Cordell
 Tyler Dietzel
 Blake Jarosinski
 Mackenzie Johnson
 Margaret Kovalan
 Mary O'Connor
 Eli Schantz

Genetics in Medicine – Indianapolis

This concentration provides a deep dive into the latest genetic developments and concepts that are transforming the practice of medicine. Students may explore clinical research, clinical case reports with literature reviews, or other areas of interest in the rapidly changing field of medical genetics.

Coursework

Effective Communications in Genomic Medicine
Genomic Medicine Journal Club
Online Clinical Case Review
Essential Lab Rotation
Fundamentals of Research and Scholarship

Co-Directors

Vinaya Murthy, MPH, LCGC
Assistant Professor of Clinical Medical and Molecular Genetics

Brittney-Shea Herbert, PhD
Associate Professor of Medical and Molecular Genetics, Vice Chair of Education

Staff, Mentors & Instructors

Amy Breman, PhD
Associate Professor of Clinical Medical and Molecular Genetics, Division Director, IU Genetic Testing Laboratories

Erin Conboy, MD
Assistant Professor of Clinical Medical and Molecular Genetics, Co-Director of the Undiagnosed Rare Disease Clinic

Evan-Jacob Garcia, MD
Assistant Professor of Clinical Medical and Molecular Genetics

Brett Graham, MD, PhD
Associate Professor of Medical and Molecular Genetics, Associate Director of Clinical Genetics

Molly McPherson, MD
Assistant Professor of Clinical Medical and Molecular Genetics

Stephanie Ware, MD, PhD
Joe C. Christian Professor and Chair of Medical and Molecular Genetics, Program Leader in Cardiovascular Genetics, Herman B Wells Center for Pediatric Research

Theodore E. Wilson, MD
Assistant Professor of Clinical Medical and Molecular Genetics

Student Participants

Class of 2027
Kaylee Tutrow, Indianapolis
(leave of absence, graduate study)

Class of 2026
Cristina Contreras Burrola, Indianapolis
(leave of absence, research)
Joseph Cooper, Indianapolis
Kimberly Felipe, Fort Wayne
Matthew Gregory, Indianapolis
Grant Hammons, West Lafayette
Mirindi Kabangu, Indianapolis
Tejasvi Kakani, Indianapolis
Evelyn McGuire, Terre Haute
Katherine Stanley, Indianapolis
Helapita Ralalage Sagara Wijeratne, Indianapolis
(leave of absence, graduate study)

Class of 2025 – All Indianapolis

Rebecca Bruns
Muqsit Buchh
Kristine Farag
Sruthi Ganapaneni
Jasmine Moawad
Ethan Wood



I have had a great experience working with [my mentor], and we are well on our way to completing a great research project [on perceptions of pharmacogenomics among low-income residents of central Indiana]. I have presented at two conferences. I have also submitted an abstract to the 2024 ACMG conference in Toronto [the major society for medical genetics]... the next step is selecting a journal to write for and beginning work on our manuscript.

Joseph Cooper, Scholarly Concentration in Genetics in Medicine, Indianapolis, Class of 2026

Health Care Integration and Healthy Aging – Fort Wayne

Older adults are one of the fastest growing demographics in the United States. With the increasing aging population, it is important to equip future physicians with the knowledge and skills needed to effectively coordinate care for aging individuals. Students will learn the importance of collaboration among healthcare providers and specialists, along with community resources to provide patient-centered, value-based care that addresses the physical, emotional, and social needs of older adults while navigating complex healthcare systems. After completing the Health Care Integration and Healthy Aging Scholarly Concentration, students will have a deep understanding of how an integrated approach to healthcare can enhance the well-being and quality of life of aging individuals.

Coursework

Population and Public Health Approaches to Aging
 Health Care Integration and Healthy Aging Journal Club
 Fundamentals of Research and Scholarship

Co-Directors

Robert D. Sweazey, PhD
 Assistant Director, IUSM-Fort Wayne
Leslie A. Hoffman, PhD
 Associate Professor of Clinical Anatomy, Cell Biology & Physiology

Fort Wayne Regional Campus Dean and Director

Fen-Li Chang, MD, PhD

Staff, Mentors & Instructors

Justin Blackburn, PhD
 Associate Professor, Health Policy and Management Richard M. Fairbanks School of Public Health
Amy Dawson, MD MPH FAAFP
 Fort Wayne Medical Education Program

Scott Myers, MD

Assistant Clinical Professor

Jan Nes, MSW, LCSW, ACSW

Associate Clinical Professor, IU School of Social Work

Douglas E. Vaughan, MD

Professor of Medicine, Potocsnak Longevity Institute Northwestern University Feinberg School of Medicine

Glenda Westmoreland, MD, MPH, AGSF

Director of Geriatrics Education, Department of Medicine

Fen-Li Chang, MD, PhD

Associate Dean and Director, IUSM-Fort Wayne

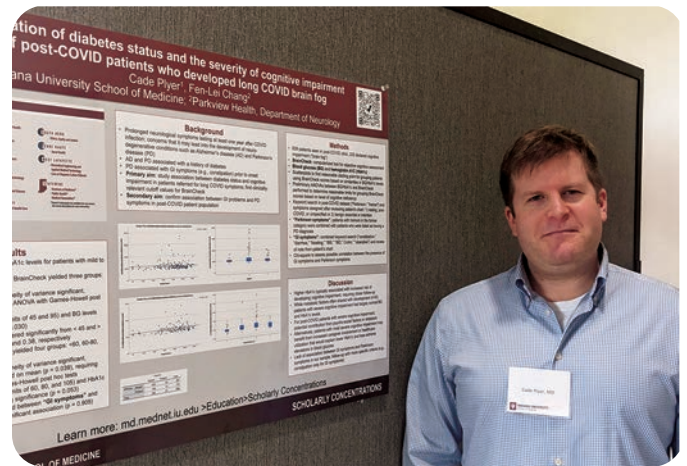
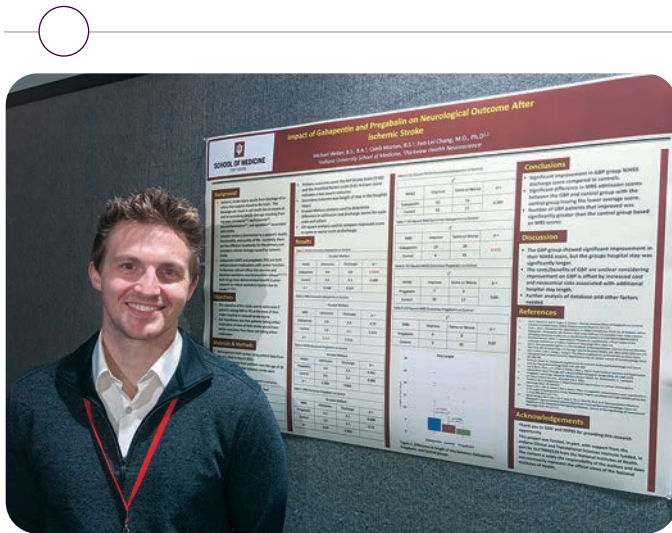
Student Participants

Class of 2026 – All Fort Wayne

Gabrielle Lutz
 Allison Nelson

Class of 2025

Margaret Bielski, Indianapolis
 Jason Li, South Bend
 Noah Todd, Fort Wayne



Health Information Technology – Indianapolis

A partnership with the Regenstrief Institute, this concentration provides students with an understanding of the components and relationships necessary to create, implement, and use clinical information systems effectively. Through coursework and hands-on experiences, students learn to leverage technology systems in increasingly complex health care systems.

Coursework

Health Informatics Scholarship
 Public Health Informatics Scholarship
 Fundamentals of Research and Scholarship

Co-Director

Brian E. Dixon, PhD
 Research Scientist, Center for Biomedical Informatics and Center for Health Services Research, Director of Public Health Informatics, Regenstrief Institute, Inc.

Staff, Mentors & Instructors

John (JT) Finnell, MD
 Professor of Emergency Medicine

Kurt Kroenke, MD
 Professor of Medicine

Jess Halterman, BS
 Fellowship Coordinator, Center for Biomedical Informatics

Bryan McConomy, MD
 Clinical Informatics Fellow, Regenstrief Institute/IUSM

Erick Christensen, MD
 Clinical Informatics Fellow, Regenstrief Institute/IUSM

Randall Grout, MD
 Assistant Professor of Pediatrics

Josh Vest, PhD
 Professor of Health Policy & Management

Suranga Kasthurirathne, PhD
 Assistant Professor of Pediatrics

Titus Schleyer, PhD
 Professor of Medicine

Shaun Grannis, MD
 Professor of Family Medicine

Student Participants

Class of 2025

Eashan Kumar, Indianapolis
(leave of absence, graduate study)

My mentorship team brought in a unique sent of individuals who graciously and generously brought me into their worlds of expertise, and I am thankful to have done this program.

I enjoyed the collaboration with Purdue University. It fostered my interests in engineering, research, and medicine without adding time to my medical school education.

I feel I am stronger in connecting with patients on the person-to-person level, allowing me to provide better care!

Health Promotion and Disease Prevention – Muncie

In this concentration, students learn how to help patients implement evidence-based lifestyle choices leading to better health outcomes and participate in research on effectiveness of particular lifestyle interventions. Students work with a team of exercise physiologists, nutritionists, mental/behavioral health counselors, social workers and other health professionals and have access to resources at the Human Performance Laboratory at Ball State University.

Coursework

Introduction to Public Health
 Lifestyle Medicine
 Fundamentals of Research and Scholarship

Co-Directors

Larry B. Fromm, PhD
 Adjunct Professor of Biochemistry & Molecular Biology

Michael D. Litt, PhD
 Adjunct Associate Professor of Medical & Molecular Genetics

Lynn Witty, MD
 Adjunct Clinical Assistant Professor of Medicine

Muncie Regional Campus Dean and Director

Derron Bishop, PhD

Staff, Mentors & Instructors

Derron Bishop, PhD
 Associate Dean and Director, IUSM-Muncie

Student Participants

Class of 2026 – All Muncie

Ugonna Adindu
 Darian Ghaffari
 Riley Gill
 Elissa Hachem
 Joel Ochoa-castro
 Maggie Sutton
 Mia Trueblood

Class of 2025

Evan Aders, Bloomington
 Avery Dawes, Muncie
 Alexandra Frank, Muncie
 Jacob Kirby, Muncie
 Zachary McLain, Muncie
 Sarah Montgomery, Bloomington
 John Strobel, Muncie



Scholarly Concentration students exhibit excitement at the prospect of additional learning opportunities. I enjoy watching them turn an idea in an area of interest into a research concept that will teach them how to appropriately investigate a question, and make it pertinent to the eventual improvement in patient outcomes. In our concentration, we're able to educate them on the benefits of working personally with individuals or communities to promote positive health choices and prevent illness by challenging the status quo for scholarly insight and unbiased investigation.



Lynn Witty, MD, Co-Director, Scholarly Concentration in Health Promotion and Disease Prevention, Muncie

Human Sexuality and Health – Bloomington

A partnership with the world-renowned Kinsey Institute, this concentration helps students understand how various topics related to sex, gender, and sexuality intersect with the practice of medicine. It also provides an opportunity to work with Kinsey researchers.

Coursework

Introduction to Human Sexuality
 Critical Issues in Sexuality and Health
 Fundamentals of Research and Scholarship

Co-Directors

Charles N. Rudick, PhD
 Assistant Director of Medical Education, IUSM-Bloomington and Assistant Dean for Curriculum, Phase 1

Justin R. Garcia, PhD
 Executive Director and Senior Scientist, Kinsey Institute, and Ruth N. Halls Endowed Professor of Gender Studies

Jessica Hille, JD, PhD
 Assistant Director for Education, Kinsey Institute

Bloomington Regional Campus Dean and Director

Katherine M. Hiller, MD, MPH

Staff, Mentors & Instructors

Greg Carter, PhD, MSN
 Assistant Professor, IU School of Nursing

Jacek Kolacz, PhD
 Assistant Research Scientist, Kinsey Institute

Virgina Vitzthum, PhD
 Senior Scientist, Kinsey Institute

Catherine Sherwood-Laughlin, HSD, MPH,
 Clinical Professor, Richard M. Fairbanks School of Public Health

Alison Greene, PhD
 Assistant Professor, Richard M. Fairbanks School of Public Health

Zoe Peterson, PhD
 Senior Scientist, Kinsey Institute

Student Participants

Class of 2026 – All Bloomington

Emma Mazurek
 Adaobi Okolocha
 Molly Ruggles
 Camryn Zuch

Class of 2025

Samantha Ake, Bloomington
 Evan Barnett, Bloomington
 Natalie Myers, Bloomington
 Leah Peipert, Fort Wayne
 Katherine Trudeau, Bloomington
(leave of absence, graduate study)
 Hannah Witting, Indianapolis



93% of participants say the program has prepared them to serve or lead in their community, organization or profession as they continue their career



Medical Education – Bloomington

In this concentration, students learn skills and practices to be effective medical educators and clinical instructors. They examine how to assess teaching effectiveness, student learning and knowledge gains through an introduction to medical education research, methodologies, and scholarship literature.

Coursework

- Pedagogical Methods in the Health Sciences
- Introduction to Clinical Case Study Development for Non-didactic Learning
- Fundamentals of Research and Scholarship

Co-Directors

Charles N. Rudick, PhD
 Assistant Director of Medical Education, IUSM-Bloomington and Assistant Dean for Curriculum, Phase 1

Valerie D. O’Loughlin, PhD
 Professor of Anatomy, Cell Biology & Physiology

Polly R. Husmann, PhD
 Associate Professor of Anatomy, Cell Biology & Physiology

Bloomington Regional Campus Dean and Director

Katherine M. Hiller, MD, MPH

Staff, Mentors & Instructors

David Rogers, EdD, EMT-P, NRP, FAHA
 Clinical Assistant Professor of Medicine

Jessica Byram, PhD
 Assistant Professor of Anatomy, Cell Biology & Physiology

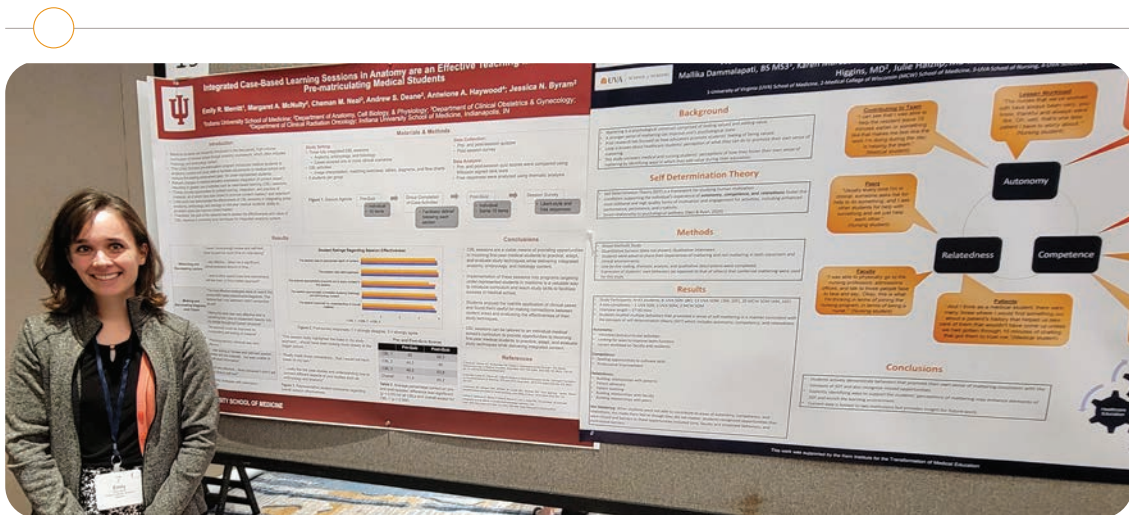
Student Participants

Class of 2026 – All Bloomington

- Elsie Gasaway
- Elizabeth Kerns
- Adrian Morales
- David Randall
(leave of absence, graduate study)

Class of 2025 – All Bloomington

Maxwell Bohrer



Medical Humanities – Indianapolis

A collaboration with the Medical Humanities and Health Studies Program in the School of Liberal Arts at IUPUI, this concentration offers an interdisciplinary course of study which provides medical students with qualitative humanistic and socio-cultural perspectives on health care. Students will study more comprehensively, and in-depth, the social, cultural, and humanistic determinants and consequences of health, disease, and healing from literary, historical, and bioethical perspectives.

Coursework

Introduction to Medical Humanities: Perspectives on Health, Disease and Healing

Medicine and the Humanities: Examining the Human Condition

Fundamentals of Research and Scholarship

Co-Directors

Emily S. Beckman, DMH
Director, Assistant Professor,
Medical Humanities and Health Studies,
IU School of Liberal Arts, IUPUI

Jane A. Hartsock, JD, MA
Director, Clinical and Organizational
Ethics, IU Health

Staff, Mentors & Instructors

Elizabeth Nelson, PhD
Assistant Professor, Medical
Humanities and Health Studies,
IU School of Liberal Arts, IUPUI

Paul Helft, MD
Professor of Medicine and Director,
Charles Warren Fairbanks Center
for Medical Ethics

Peter Schwartz, MD, PhD
Director, IU Center for Bioethics,
Associate Professor of Medicine

Richard Gunderman, MD, PhD
Chancellor's Professor of Radiology,
Pediatrics, Medical Education,
Philosophy, Liberal Arts, Philanthropy,
and Medical Humanities and Health
Studies and John A. Campbell
Professor of Radiology

Kenzie Mintus, PhD
Associate Professor, Sociology,
IU School of Liberal Arts, IUPUI

Diane Prenatt, PhD
Professor of Literature,
Marian University

Brandon Brown, MD, MA
Vice-Chair, Radiology and Imaging
Sciences, Associate Professor,
Radiology, Pediatrics, OBGYN,
Philosophy, Medicine

Colin Halverson, PhD
Assistant Professor,
Medicine

Angeline Larimer, MFA, MA

Affiliate Faculty, Medical Humanities
and Health Studies, Communication
Studies, IU School of Liberal Arts, IUPUI

Katharine Head, JD

Associate Professor, Communication
Studies, IU School of Liberal Arts, IUPUI

Student Participants

Class of 2026

Caroline Bice, Indianapolis

Elias Chahoud, Indianapolis

Ana Danner, Fort Wayne

Adrienne Gaughan, Indianapolis

Jesus Olivera, Indianapolis

Nathan Shigley, Indianapolis

Toria Tucker, Bloomington

Micah Williams, Indianapolis

Class of 2025

Ashley Egler, Indianapolis

Jordan Finch, Indianapolis

Daniel Martin, Indianapolis

Gabrielle Omoregie, West Lafayette

Ananya Tadikonda, Indianapolis

Margaret Tharp, Indianapolis

The Medical Humanities scholarly concentration was one of the best decisions I've made for myself in medical school. It allows scholarly engagement, discussion of complex topics, and maintenance of wellness through engaging in a side of medicine that is highly important but often neglected in medical education. I highly recommend the experience to anyone else who is interested.

Margaret Tharp, Scholarly Concentration in Medical Humanities, Indianapolis, Class of 2025



Quality and Innovation in Health Care – Evansville

This program trains future clinicians to improve quality, safety, and efficiency in healthcare systems. Students use real-world evidence to identify needs and assess practical solutions to problems. Scholarly Concentration projects may lead to quality improvement initiatives and/or health care innovation.

By participating in interactive, workshop-style courses alongside various health care professionals, students master widely recognized approaches for continuous improvement and design thinking. Through completion of coursework and a quality improvement project, students can earn Lean Six Sigma Green Belt certification. Students gain experience applying quality improvement and innovation frameworks that can be used in any specialty throughout their careers.

Coursework

- Introduction to Health Care Innovation and Implementation
- Lean Six Sigma for Health Care Professionals
- Fundamentals of Research and Scholarship

Co-Directors

- Kara Garcia, PhD**
Assistant Research Professor of Radiology & Imaging Sciences and Navigator for the Indiana Clinical and Translational Sciences Institute
- Arthur L. Chlebowski, PhD**
Adjunct Assistant Professor of Family Medicine and Assistant Professor, Department of Engineering, University of Southern Indiana

Evansville Regional Campus Dean and Director

Steven G. Becker, MD

Staff, Mentors & Instructors

- Barbara Cash, MHA, CSSMBB**
Quality Systems Manager, Deaconess Health System, Adjunct Instructor, IUSM-Evansville
- Greg Folz, CCRP**
Former Administrative Director, Research Institute of Deaconess Clinic
- Mary Ann Shifflett, PhD**
Six Sigma Black Belt, Deaconess Health System, Contract Assistant Professor, University of Southern Indiana, Adjunct Instructor, IUSM-Evansville
- Tapan Mehta, MD**
Physician
- Amanda Boehleber, MD**
Physician
- Kenneth Spear, MD**
Health Officer, Vanderburgh County Health Department
- Subha Raman, MD**
Professor of Cardiology, Chief of Cardiology, Director of the Cardiovascular Institute, and VP for Cardiovascular Services
- Majed Koleilat, MD**
Physician
- William Smith, MD**
Physician
- Tammy Sajdyk, PhD**
Associate Professor of Clinical Pediatrics and Associate Director of the Translational Research Development Program, Indiana CTSI
- Susan Ely, PhD**
Assistant Professor of Engineering, University of Southern Indiana
- Erin Reese, RN**
Immunization Nurse, Vanderburgh County Health Department
- Jing Su, PhD**
Assistant Professor of Biostatistics & Health Data Science
- Emily Scott, MD**
Associate Professor of Clinical Pediatrics

Student Participants

- Class of 2026**
Gabriel Araya, Evansville
Elizabeth Bell, Terre Haute
Jacob Hedberg, Evansville
Taylor Kenyon, Terre Haute
Landon Upshaw, Evansville
- Class of 2025 – All Evansville**
Brittany Gass
Ryan Heumann
David Pereira
Troy Wesson



Having the opportunity to work with doctors and other health care professionals who have taken up additional quality improvement roles within their hospital systems has provided me with a better understanding of how I can pursue quality innovation in health care as a medical professional.

Christopher Blanco, MD, Internal Medicine Resident, Tufts Medical Center, Scholarly Concentration in Quality and Innovation in Health Care, Evansville, Class of 2023 graduate

Rural Health – Terre Haute

This concentration offers students an opportunity to learn and engage with rural communities through research using diverse methods and topics. Coursework and projects teach students how community and behavior unique to rural populations impact public health issues.

Coursework

Introduction to Public Health
 Introduction to Rural and Agricultural Health
 Rural Health Journal Club
 Fundamentals of Research and Scholarship

Co-Directors

Ellen M. Ireland, PhD, MPH
 Clinical Assistant Professor
Robin L. Danek, PhD, MPH
 Assistant Professor

Terre Haute Regional Campus Dean and Director

Taihung (Peter) Duong, PhD

Staff, Mentors & Instructors

Jiali Han, PhD
 Professor, Chair of Epidemiology, Richard M. Fairbanks School of Public Health
James Wilcox, MD
 Assistant Professor of Clinical Family Medicine
Eric Reyes, PhD
 Associate Professor, Rose-Hulman Institute of Technology
Hongmei Nan, MD PhD
 Professor, IU Center for Global Health

Student Participants

Class of 2026 – All Terre Haute

Molly Barten
 Katheryn Bell
 Travis Owen
 Katelyn Rusiniak
 Abby Wetzel

Class of 2025

Kameron Bell, Terre Haute
 Evan Curl, Bloomington
 Chase Salmon, Terre Haute

I think the scholarly concentration experience provides students with more confidence in their ability to create and lead research projects in the future. Students in our concentration come in with a wide range of prior research experience, but our projects really give them the start-to-finish practice on design and execution of multiple stages of a research study.

Ellen Ireland, PhD, Co-Director, Scholarly Concentration in Rural Health, Terre Haute

Working in rural medicine gives you the opportunity to think outside of the box and come up with care plans that can be tailored to widely different people. I feel the Rural Health scholarly concentration has taught me how to handle many of these situations while moving forward in my career.

Reese Miller, MD, Anesthesiology Resident, Indiana University School of Medicine, Scholarly Concentration in Rural Health, Terre Haute, Class of 2022 graduate



Urban Medicine and Health Care Disparities – Northwest-Gary

This concentration provides students with an understanding of the historical and contemporary barriers that exist for the nation’s medically underserved in urban areas. Students will investigate authentic cross-cultural and linguistic issues in health care and be able to demonstrate how sensitivity to such issues improves health care for all. Through scholarly project work, students will act as advocates by developing interventions to address or reduce health disparities.

Coursework

Healthcare Disparities in an Urban Setting, Course 1
 Healthcare Disparities in an Urban Setting, Course 2
 Fundamentals of Research and Scholarship

Co-Directors

Amy W. Han, PhD
 Director of Clinical Education, IUSM-Northwest-Gary, Assistant Professor of Clinical Psychiatry

Baraka Muvuka, PhD, MPH, MCHES
 Assistant Professor of Clinical Family Medicine, Director of Research, IUSM-Northwest-Gary

Staff, Mentors & Instructors

Roland Walker, MD
 Commissioner, Gary Health Department, Assistant Professor of Pediatrics

Michael McGee, MD
 Assistant Professor of Emergency Medicine

Kobie Douglas, MD
 Assistant Professor of Psychiatry and Program Director, IUSM-Northwest-Gary Psychiatry Residency, Medical Director, Regional Health Systems

Ramana Yedavalli, MD
 Assistant Professor of Interventional Radiology

Joshua Mangum, Ph D
 Assistant Professor of Clinical Anatomy, Cell Biology & Physiology

Tatiana Kostrimanova, PhD
 Professor of Histology

Victor Garcia
 Foodbank of Northwest Indiana

Jason Zaideman
 Operation Combat Bike Saver

Samer Ajam, MD
 Assistant Professor of Cardiology

William Forgey, MD
 Assistant Professor of Family Medicine

Jonathan Guerrero, Pham D, BCPS, MSEd
 Assistant Professor of Clinical Pharmacology and Toxicology

Kyle Gospodarek, MD
 Lecturer of Clinical Medicine

Student Participants

Class of 2027 – All Northwest-Gary

Sahar Abdullah
 Jacobus Barnard
 Alison Blodgett
 Seth Bouwer
 Neon Calumpang
 Miranda Cash
 Jocelyn Chang-Stroman
 Austin Clark
 Mark Delos Reyes
 Alexis Dres
 Caroline Gonzalez
 Flora Ho
 David Lin
 Gionte Mason
 Margaret Sullivan
 Skyler Thompson
 Grace Zhou

Class of 2026 – All Northwest-Gary

Basem Al-tarshan
 Brianna Chandler
 Kyra Colston
 John Deckbar
 Kelly DeMichael
 Wael Gad
 Eric Gonsiorowski
 Brendan Jones

Michelle LaTurner
 Gabrielle Li
 Miatta Ndama
 Pooja Patel
 Luke Peterson
 Satya Sanapati
 Michael Yallourakis
 William Zhang

Class of 2025 – All Northwest-Gary

Nicholas Crowe
 Will Hutwagner



I highly highly recommend it [Scholarly Concentrations Program], because not only does it nudge you into the right direction of getting a good project out there ... it pushes you to do something important and good, that could be helpful for the community that you’re going to be living in for the next 4 years.

Mohamed Aldallal, Scholarly Concentration in Urban Medicine and Health Care Disparities, Northwest-Gary, Class of 2024

Business of Medicine

A partnership with IU's Kelley School of Business, this concentration prepares future physicians to apply the fundamentals of business in clinical environments. Merging evidence-based management with evidence-based medicine, students learn how to improve medical outcomes, reduce costs, and lift staff morale.

Coursework

Value Creation and Financial Performance in Health Care Systems

Business Management of the Patient Experience

Fundamentals of Research and Scholarship

Co-Directors

Gregory L. Katzman, MD, MBA

Service Chief, Radiology,
Richard L. Roudebush VA Hospital,
Professor of Radiology & Imaging Sciences

Kyle J. Anderson, PhD

Clinical Assistant Professor,
IU Kelley School of Business

Staff, Mentors & Instructors

Todd Saxton, PhD

Associate Professor of Strategy and Entrepreneurship and Kelley Venture Fellow, IU Kelley School of Business

M. Kim Saxton, PhD, MBA

Clinical Professor of Marketing,
IU Kelley School of Business

Janelle Cissell

Associate Director,
IU Kelley School of Business

Student Participants

Class of 2029

Gloria Xue, Indianapolis
(leave of absence, graduate study)

Class of 2026

Keyshla Nieves, Indianapolis
Chelsea Fathauer, Indianapolis
Maria Florentin, Northwest-Gary
Christopher Garcia, Fort Wayne
Tyler Given, Indianapolis
Salil Gupta, Indianapolis
Amir Hailat, Indianapolis
Cameron Harmon, Indianapolis
Tejas Kandharkar, Evansville
August Katz, Bloomington
Syeda Mobashir, West Lafayette
Manav Patel, Muncie
Radha Patel, Indianapolis
Shyam Polaconda, Indianapolis
Mychael Spencer, Indianapolis
Nikola Vuckovic, South Bend
Hannah Wang, Northwest
Jalyn Warren, Indianapolis
William Wilson, Terre Haute
Carson Wyatt, Evansville
Andrew Zoss, Fort Wayne

Class of 2025

Iyad Ali, Northwest-Gary
Sunjay Anekal, Bloomington
Jonathan Arnold, Indianapolis
Abigail Beard, Bloomington
Aditya Belamkar, Indianapolis
Frank Dajak, Indianapolis
(leave of absence, graduate study)
Cameron Edwards, Indianapolis
Kathleen Ho, Indianapolis
Natalie Jacobson, Indianapolis
Nicole Jansen, Indianapolis
Rigel Jaquish, Indianapolis
Alexander Johnson, Bloomington
Heidi Keiser, Indianapolis
Niloy Lahiri, Indianapolis
Brianna Lawrence, Bloomington
Brayan Capristan, Bloomington
Cameron McClaine, Bloomington
Thomas Murphy, Bloomington
Laeticia Nkuibet, Indianapolis
Oseme Okoruwa, Evansville
Bhavesh Patel, Indianapolis
Osama Saadoon, Muncie
Jack Sansone, Indianapolis
William Stanton, Evansville
Luke Swartz, Terre Haute
Omkar Tamhankar, Northwest-Gary
Natalie Vellutini, Northwest-Gary
Youngjun Woo, Indianapolis

Public Health

A partnership with the Richard M. Fairbanks School of Public Health at IUPUI, this concentration provides foundational knowledge in public health. This includes an understanding of the U.S. health system; how social barriers can impact health and health care; trends impacting public health; and evidence-based interventions, among other topics.

Coursework

Introduction to Public Health
 Population Health for Clinicians
 Fundamentals of Research and Scholarship

Co-Directors

Paul K. Halverson, DrPH, FACHE

Founding Dean,
 Richard M. Fairbanks School
 of Public Health

Amanda D. Benadaret, MD, MPH

Associate Professor of Clinical
 Pediatrics

William Tierney, MD

Associate Dean of Population Health
 and Health Outcomes, Richard M.
 Fairbanks School of Public Health

Jordan A. Holmes, MD

Assistant Professor of
 Radiation Oncology

Priscilla Barnes, PhD, MPH

Associate Professor,
 IU-Bloomington School of Public Health

Staff, Mentors & Instructors

Jeffrey Peipert, MD, PhD

Chair, Department of Obstetrics &
 Gynecology

Sherri Bucher, PhD

Associate Professor of Pediatrics,
 Investigator, Global Network for
 Women’s and Children’s Research,
 USAID-AMPATH

Sara Wiehe, MD, PhD

Associate Dean for Community and
 Translational Research

Sarah Stelzner, MD

Assistant Professor of Clinical Pediatrics

Christopher Callahan, MD

Professor of Medicine, Investigator,
 Center for Aging Research,
 Regenstrief Institute, Inc. and
 Director, Sandra Eskenazi Center for
 Brain Care Innovation

Megan McHenry, MD

Assistant Professor of Pediatrics

Caitlin Bernard, MD

Assistant Professor of Clinical
 Obstetrics & Gynecology

Heidi Beidinger-Burnett, PhD

Assistant Professor, Eck Institute of
 Global Health at University of
 Notre Dame and Campus Liaison for
 the Indiana Clinical and Translational
 Sciences Institute

Ruben Hernandez, MD

Assistant Professor of
 Clinical Family Medicine

Chi Wah “Rudy” Yung, MD

Professor Emeritus of Ophthalmology

Sylk Sotto, EdD, MBA, MPS

Vice Chair for Faculty Affairs,
 Development and Diversity and
 Assistant Professor of Medicine

Emily Cha, MD

Assistant Professor of
 Clinical Orthopaedic Surgery

Brian Gray, MD

Assistant Professor of Surgery

Olena Mazurenko, MD, PhD

Associate Professor,
 Richard M. Fairbanks School
 of Public Health

Bob Einterz, MD

Emeritus Professor, Founding Director,
 IU Center for Global Health, Donald E.
 Brown Professor for Global Health,
 Associate Dean for Global Health,
 St. Joseph County Health Department

Sally Dixon

Fetal Infant Mortality Review Program
 Coordinator, HOPE, St. Joseph County
 Health Department

Kurt Kroenke, MD, MACP

Chancellor’s Professor, IUPUI

Tammy Toscos, PhD

Adjunct Assistant Professor,
 Health Informatics

Jill Connors, PhD

Assistant Research Professor
 of Surgery

Kathryn Haider, MD

Associate Professor of Clinical
 Ophthalmology and Director
 of Clinical Research

Tami Hannon, MD

Professor of Pediatrics and Professor
 of Medical and Molecular Genetics

Jim Lemons, MD

Professor of Clinical Pediatrics

Matt Turissini, MD

Assistant Professor of Clinical Medicine

Kara Garcia, PhD

Assistant Research Professor of
 Radiology & Imaging Sciences and
 Navigator for the Indiana Clinical
 and Translational Sciences Institute

Linda Williams, MD

Professor of Neurology

Staff, Mentors & Instructors, continued

Dustin Nowaskie, MD

Assistant Professor of Psychiatry and Behavioral Sciences, Keck School of Medicine, University of Southern California

Gregory Westin, MD

Assistant Professor of Surgery

Carl Pafford, MD

Assistant Professor of Clinical Emergency Medicine

Lauren Bell, MD, MPH

PGY6 Resident in Pediatrics

Seethal Jacob, MD, MS

Assistant Professor of Pediatrics

Benjamin Nti, MD

Assistant Professor of Emergency Medicine

Adam Eckred, PhD

Associate Professor, O'Neill School of Public and Environmental Affairs

Sara Naramore, MD

Assistant Professor of Clinical Pediatrics

Phil DeCicca, PhD

Professor of Health Economics, Ball State University

Don Sanders, MD

Associate Professor of Pediatrics

Dennis Saviaiano, PhD

Professor of Nutrition Science, Purdue University

Kathi Ridley-Merriweather, MS

Doctoral Candidate, IU Health Simon Comprehensive Cancer Center

Megan McHenry, MD, MS

Associate Professor of Pediatrics

Mohammed Al-Haddad, MD, MS

Professor and Chief, Division of Gastroenterology and Hepatology

Michael Murphy, MD

Professor of Surgery

Suzann Lupton, PhD, JD

Associate Dean of Student Services, Paul H. O'Neill School of Public and Environment Affairs

Joshua Huot, PhD, MS

Assistant Professor of Anatomy

Brownsyne Tucker-Edmonds, MD, MPH

Professor of Obstetrics and Gynecology, Associate Dean for Health Equity Research

Matt Dietrich, PhD

Senior Data Analyst, Luddy School of Informatics

Debra Litzelman, MD

Professor of Medicine

Sybil Keena Que, MD

Assistant Professor of Clinical Dermatology

Titus Schleyer, DMD, PhD

Professor of Medicine

Nadia Needleman, MS

Program Coordinator, Center for Health Policy, Richard M. Fairbanks School of Public Health

Leslie Hulvershorn, MD

Associate Professor and Chair of Psychiatry

Chandy John, MD, MS

Professor of Pediatrics

Roman Natoli, MD, PhD

Associate Professor of Orthopedic Surgery

Subha Raman, MD

Professor of Cardiology

Olawale Ojo, MD, MSC

Assistant Professor of Clinical Psychiatry

Temel Tirkes, MD

Professor of Radiology and Imaging Services

Christine Motzkus, MD, PhD, MPH

Assistant Professor of Clinical Emergency Medicine

Cassidy McNamee, MPH

Policy Analyst, Richard M. Fairbanks School of Public Health, Program Manager, Scholarly Concentration in Public Health

Nir Menachemi, PhD

Interim Dean and Professor, Richard M. Fairbanks School of Public Health

(continued on next page)

It was really a great experience and I think exemplifies how the School of Medicine can help spark the possibility of a research career among our students early in their career development. Courtney (Seigel) is a superstar; I'm delighted she's interested in Neurology!

Linda Williams, MD, Professor of Neurology, Scholarly Concentration in Public Health mentor



Public Health, continued

Student Participants

Class of 2027

Supriya Chittajallu, Fort Wayne

Class of 2026

Noor Abdullah, Indianapolis
 Lauren Alexander, Indianapolis
 Ashley Alvarado, Indianapolis
 Julia Amstutz, Indianapolis
 Jinan Ayub, West Lafayette
 Geneva Baumberger, Bloomington
 Luke Brennan, Indianapolis
 (leave of absence, graduate study)
 Laura Cordero, Evansville
 Lauren Earhart, Indianapolis
 Davis Giffin, Terre Haute
 Jeff Guo, Indianapolis
 Luke Haag, Bloomington
 Rina Jiang, Indianapolis

Amr Kais, Bloomington
 Uzair Khan, Indianapolis
 Morgan Kincaid, Indianapolis
 Lucia Li, Indianapolis
 Eric Micco, Northwest-Gary
 Cristina Olvera-Jaramillo, Muncie
 Alexa Petrucciani, Indianapolis
 (leave of absence, graduate study)
 Margaret Phiri, Indianapolis
 Pari Revankar, West Lafayette
 Vanessa Schwieterman, Bloomington
 Angad Sidhu, Indianapolis
 Mary Slaughter, Indianapolis
 John Wang, Evansville
 Lauren Ward, Indianapolis
 Kylie Wertz, Bloomington
 Aaron Williams, Fort Wayne
 Grace Yuan, Evansville

Class of 2025

Hannah Eikelberg, Muncie
 Maria Fernandez Olivera, Muncie
 Jayla French, Indianapolis
 Nicole Frey, Indianapolis
 Samuel Gutierrez, Indianapolis
 Madeline Hathoot, Indianapolis
 Beau Mansker, Indianapolis
 Josey Noel, Indianapolis
 Victor Olafusi, Indianapolis
 Michael Partridge, Muncie
 Payal Patel, Indianapolis
 Neal Vandeventer, Terre Haute
 Katherine Vogel, Indianapolis
 Hallie Waters, Bloomington
 Jennifer Watters, Indianapolis
 Klaudia Wojciechowska,
 West Lafayette

Religion and Spirituality in Medicine

In this concentration, students are introduced to major spiritual traditions and how they interact with spiritual concepts in health. A diversity of religious traditions, as well as non-religious spiritual traditions are covered. Course sessions will be led by a spiritually diverse faculty, with discussion of spiritual traditions preferentially led by leaders within those traditions.

Coursework

Survey of Spiritual Traditions and Concepts in Health
 Survey of Spiritual Care Practice and the Research of Spirituality in Health
 Religion and Spirituality in Medicine Journal Club
 Fundamentals of Research and Scholarship

Co-Directors

Alex Lion, DO
 Assistant Professor of Clinical Pediatrics
Mona A. Raed, MD
 Assistant Professor of Clinical Pediatrics

Staff, Mentors & Instructors (non-exhaustive list)

Anastasia Holman MDiv, MBA, BCC
 Director of Chaplaincy Education, IU Health
Robyn Axel-Adams MS, MDiv, BCC
 Charles Warren Fairbanks Center for Medical Ethics
Alexia Torke, MD, MS
 Professor of Medicine, Section Chief, Palliative Care
Rabbi Bruce Pfeffer, MAHL, BCC
 Director of Chaplaincy, IU Health

Academic Accomplishments

2024 National Conference on Medicine and Religion, planned and hosted by Scholarly Concentrations co-directors and faculty from IU School of Medicine and IU Health

Awards/Grants received

Trustee's Teaching Award to Dr. Alex Lion
 PLUS Grant – \$50,000 from IU School of Medicine Faculty Affairs and Professional Development used to support Co-Director Alex Lion's time to mentor three concentration students' research related to the Team Based Spirituality curriculum, for a research assistant and biostatistics support. The PLUS award also allowed Dr. Lion to work collaboratively with IU Health on this project.

Student Participants

Class of 2026

Clayton Hicks, Indianapolis
 Chaman Kumar, Terre Haute
 Gary Mann, Fort Wayne
 Josephine McQuillan, Bloomington
 Noah Sierks, Bloomington
 Prabhnoor Nagra, Terre Haute

Class of 2025

Leah Bode, Indianapolis
 Justin Davis, Bloomington



Scholarly Concentrations Program Scholarship

The IUSM Scholarly Concentrations Program encourages student scholarly work and is also a vehicle for scholarship. Here is program-related scholarship for 2023.

Published in *Academic Medicine* [Residency Program Directors' Views on Research Conducted During Medical School: A National Survey](#)

Wolfson RK, Fairchild PC, Bahner I, Baxa DM, **Birnbaum DR**, Chaudhry SI, Chretien KC, DeFranco DB, Deptola AZ, LaConte LEW, Lin JJ, Petch Lee L, Powers MA, Ropson IJ, Sankaran SM, Sawarynski KE, Sozio SM. Residency Program Directors' Views on Research Conducted During Medical School: A National Survey. *Acad Med.* 2023 Oct 1;98(10):1185-1195. doi: 10.1097/ACM.00000000000005256. Epub 2023 Apr 21. PMID: 37099328; PMCID: PMC10516175.

Published in *Medical Science Educator*

[The IUSM Medical Education Scholarly Concentration: Training Medical Students to Become Future Clinical Educators](#)

O'Loughlin VD, Rudick C, Husmann PR. The IUSM Medical Education Scholarly Concentration: Training Medical Students to Become Future Clinical Educators. *Med Sci Educ.* 2023 Nov 15;33(6):1459-1460. doi: 10.1007/s40670-023-01939-0. PMID: 38188413; PMCID: PMC10766579.

2023 AAMC Regional Medical Campus Conference Poster Presentation

[Assessing a Longitudinal Educational Experience for Continuous Quality Improvement](#)

Authors Deborah R. Birnbaum, MBA; Anthony Masseria, MEd; Sarah Walsh, MPH.

Concentrations Receive Mini-Grant Awards

The following concentrations received grant funding for health equity projects involving medical students from the IU School of Medicine's Health Resources and Services Administration Prime grant. The HRSA Prime grant funds efforts to enhance training and inspire more graduates to serve more underserved and vulnerable populations, and address health inequities.

Care of Hispanic/Latino Patients, West Lafayette

Use of Spanish-speaking Standardized Patients in the pre-clinical training of medical students. Ray Munguia-Vazquez, MD, PhD (Principal Investigator), Francoise Brosseau-Lapre, PhD (Co-PI) and Matthew Tews, DO (Co-PI). Student Investigator Gloria Garcia

Quality and Innovation in Health Care, Evansville

Assessment of Survivor Cancer Care in the Adolescent and Young Adult Population in Rural Southwestern Indiana. Kara Garcia, PhD, and Tamara Sajdyk, MD (Co-PIs). Student Investigator Brittany Glass

Rural Health, Terre Haute

Point of Care Ultrasound Training with Musculoskeletal Evaluation Uptake at Rural Clinics. Ellen Ireland, PhD (PI) and James Wilcox, MD (Co-PI). Student Investigators: Roarke Tollar; Ben Herman; Myanna Cook; and Natalie Cox

Urban Medicine and Health Care Disparities, Northwest-Gary

Addressing Health Inequities in Northwest Indiana Through Longitudinal Student-Led Community Based Participatory Research Partnerships. Baraka Muvuka, PhD, Elizabeth Ryan, EdD, and Amy Han, PhD (Co-PIs). Student Investigators: Emma Love; Sydnye Nosbusch; Antonio Presutti; Daniel Green; Hunter McCollum; Will Hutwagner; Erin Brown; Mohamed Shakeeb Aldallal; Deeb Omari

Scholarly Concentrations Program Team

Program Director

Deb Birnbaum, MBA

Program Coordinator

Michelle Marie Polanco, BA

Executive Associate Dean of Educational Affairs and Program Champion

Paul M. Wallach, MD

Scholarly Concentrations Program Ad-Hoc Committee

Bradley L. Allen, MD, PhD

Senior Associate Dean for Medical Education

Fen-Lei Chang, MD, PhD

Associate Dean and Director, IUSM-Fort Wayne

Peter Duong, PhD

Associate Dean and Director, IUSM-Terre Haute

Laura Hinkle, MD

Assistant Professor of Clinical Medicine

Caitlyn Mulcahey

4th year Medical Student

Harish Rao, MD

Assistant Professor of Clinical Pediatrics

Amee Sangani

4th year Medical Student

Scholarly Concentrations Program Operations Team

Erich Bauer

Educational Technology Consultant

Deb Birnbaum, MBA

Scholarly Concentrations Program Director

Troy Felton

Senior Software Engineer

Scott Hemmerlein

Manager of Application Integration, Web and Business Intelligence

Dave O’Korn

Software Engineer

Michelle Marie Polanco, BA

Scholarly Concentrations Program Coordinator

Amanda Ybarra, MA

Registrar

Scholarly Concentrations Evaluation and Assessment Team

Bradley L. Allen, MD, PhD

Senior Associate Dean for Medical Student Education

Deb Birnbaum, MBA

Scholarly Concentrations Program Director

Anthony Masseria, MSED

Evaluation Program Manager

Michelle Marie Polanco, BA

Scholarly Concentrations Program Coordinator

Roles and Responsibilities

Executive Associate Dean

Vision and leadership; review and approve topics; partnerships

Curriculum Council Steering Committee

Curricular leadership; review and approve proposals

Scholarly Concentrations Program Ad-Hoc Committee

Review and recommend for approval to Steering Committee

Program Director

Ongoing direction and management of statewide program

Program Coordinator

Handles various aspects of program operations, data management and reporting

Associate Dean and Director of Regional Campus

Campus champion, responsible for overall campus success

Scholarly Concentration Co-Directors

Develop and manage concentration, curriculum, scholarly projects. Student success

Scholarly Concentration Project Mentor

Guide students through scholarly project, manuscript, poster

Course Director

Development of course syllabus, course content, assessment

Liaison Librarian

Support students and educators with library resources

Lead Advisor

Student academic advising; partner with co-directors when needed





SCHOOL OF MEDICINE

Dean Jay L. Hess, MD, PhD, MHSA

SCHOLARLY CONCENTRATIONS PROGRAM

medicine.iu.edu/md/curriculum/scholarly-concentrations

INDIANA UNIVERSITY SCHOOL OF MEDICINE

medicine.iu.edu