

Project name	Faculty Name	Department:	Please select what type of project:	What is the general research problem or project that the student will be completing under your mentorship? (e.g., how does transgenerational epigenetic inheritance affect metabolic disease risk? Which support systems provide better outcomes for people with traumatic brain injury? Creation of independent learning modules for a course).	What specific question will the student be addressing during their rotation, and can it be completed during the rotation? (e.g. Does thermoneutrality enhance the effect of a high-fat diet on glycemia in mice? What is the population with TBI in Worcester? How can we advance students' self-directed learning using technology?)	What type of study (e.g., cross-sectional case-control study, longitudinal cohort study, clinical trial, model system (e.g., cells, mice, worms, flies, etc.) will the student be working on? What is the implementation plan for the curriculum?
Hospital at Home - Cool Projects, Many, Come Do Very Impactful Work Together!	Constantinos Michaelidis	Hospital at Home	Research	Many hospital at home key research and curricular opportunities that could flex to student interests	Many hospital at home key research and curricular opportunities that could flex to student interests	Many hospital at home key research and curricular opportunities that could flex to student interests
Establishing a morphea registry	Diana Reusch	Dermatology	Research	Morphea is a very challenging disease to treat. A few expert recommendations for therapy exist, but it can be challenging to determine disease activity vs inactivity and know when to escalate or de-escalate treatment. Can we use multimodal data points to gain a better sense of disease progression, with the ultimate goal of personalizing treatment strategies?	The student will help to finalize study design and will create a patient registry on Redcap to initiate longitudinal, prospective study of morphea	Longitudinal cohort study
CAPEs	Edwin Boudreaux	Emergency Medicine	Research	Studying suicide prevention in healthcare settings	will be determined at the time	will be determined at the time
Access to interpreters: a secret shopper cross-sectional assessment of primary and specialty care in the US	Elizabeth Schoenfeld	Emergency Medicine (Baystate)	Research	Patients seen in US-based medical facilities are legally entitled an interpreter, but many do not know this is the case. Additionally, the law does not provide for funding for this mandate. Our study will use "secret shopper" methodology to assess patient access to interpreters across a variety of medical settings. Via phone call assessment, we will attempt to set up appointments for a patient needing an interpreter and we will record availability.	How often do patients requiring medical interpreters face settings that do not provide them?	Cross-sectional
Shared Decision-Making without Shared Language	Elizabeth Schoenfeld	Emergency Medicine (Baystate)	Research	Qualitative evaluation of how shared decision-making proceeds (or does not proceed) when an interpreter is needed.	How do interpreters, patients and providers navigate the use of Shared Decision-Making? What are the tools used to ensure SDM?	Qualitative study: interviews and/or analysis of transcripts
Numerous projects not just for research but also for community health and curriculum exploration. I can provide details but my lab has over a dozen of projects available.	Giorgio Giatsidis	Surgery/Plastic Surgery	Research	depending on chosen project	depending on chosen project	depending on chosen project
Trends in the Treatment of Youth in Foster Care	Heather Forkey	Pediatrics	Research	Analysis of foster care clinic patient data for diagnostic and management trends	What does the Foster Children Evaluation Service (FaCES) clinic QI data for the past 5 years demonstrate?	Quality Improvement clinic descriptive analysis
Supporting Foster Parents Understanding of and Response to Trauma in Foster Youth	Heather Forkey	Pediatrics	Research	Creation of learning modules and resources for foster parents	How does a foster parent understand and respond to trauma in foster youth?	Literature and resource scan and distillation for lay foster parent population
FORCE-TJR - Function and Outcomes Research for Comparative Effectiveness in Total Joint Replacement	Hua Zheng	Orthopedics and Physical Rehabilitation	Research	We would like to better understand the clinical and surgical factors, specifically varying total hip replacement (THR) and total knee replacement (TKR) approaches and peri-operative care that may impact patients' functional outcomes.	The student will assist in this national research study. Daily work will include: understanding the emerging importance of collecting PROs including data entry of patient surveys; training in appropriate data collection and abstraction of operative notes from FORCE-TJR registry participants due to adverse events. Students will also be exposed patient retention calling.	Longitudinal cohort study.
Lung Cancer Diagnosis and Treatment in Brazil	Isabel Emmerick	Division of Thoracic Surgery	Research	What are the patterns of Lung Cancer diagnosis and treatment in Rio de Janeiro, Brazil?	how the neighborhood characteristics affect Lung Cancer diagnosis and treatment in Rio de Janeiro, Brazil	Retrospective analysis of secondary databases
Spatial transcriptomics and proteomics of skin diseases	Jillian Richmond	Dermatology	Research	How do chemokines orchestrate immune cell migration in the skin in different pathological conditions?	What genes and proteins are expressed spatially in the skin?	Archival biopsies -gene and protein expression
Speech markers of cognitive impairment in Parkinson's disease	Kara Smith	Neurology	Research	How do speech changes tell us about cognition in people with Parkinson's disease? My work is looking at different tasks and how speech changes differ by cognitive demand.	How does speech change during specific types of sentences, and during tasks such as walking, in those with PD and cognitive impairment.	this is a completed cross-sectional cohort study for which we had a large speech file database
Medicaid financing and delivery system reform for people with behavioral health conditions	Kim Geissler	DHDPS	Research	Assisting with projects related to Medicaid financing and delivery system reform for people with behavioral health conditions	TBD, will find good fit	Health services research, using secondary data.
System-wide Clinical Integration between Academic Medical Center and Community Hospitals	Mark Maxfield	Surgery	Community Health	How can complex health systems optimize health care delivery between academic medical centers and community hospital affiliates	What are the options and strategies used for clinically integrate complex health systems	Model system
Implementation of lung cancer screening using health informatics	Mayuko Ito Fukunaga	Medicine	Research	How can we improve the uptake of lung cancer screening using health informatics?	How can we efficiently collect smoking history from patients to identify patients eligible for lung cancer screening?	user-centered design
Implementation of a Food Insecurity Initiative (produce distribution at an FQHC)	Melanie Gnazzo	Family Medicine and Community Health	Community Health	People experiencing food insecurity often do not have access to fresh fruits and vegetables. People with food insecurity often have other risk factors for poorer general health. By collaborating with local food agencies, we provide fresh, local produce to patients at an FQHC experiencing food insecurity during the summer months.	The student will be preparing for and implementing a distribution of produce to patients at the FHCW, an urban FQHC in Worcester, MA. As part of this project, they will be working with local food organizations, health organizations, multidisciplinary healthcare providers and directly with patients.	There is no specific study identified as this is a community service opportunity. However, preparation for the project will include discussion on student interests and may include identifying a quality improvement project related to food insecurity and/or implementation of the produce distribution at the FHCW. Additionally, the project will involve participating at the local farm that provides the produce.

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Development of a Comprehensive Website Compiling Research Opportunities at UMass Chan for Medical Students	Michael Ennis	Student Affairs	Curriculum Development	What are the opportunities at our 3 schools for students to participate in research?	Compile a comprehensive on-line compendium of research opportunities in all departments within the 3 schools, including opportunities mainly for medical students, but also possibly premed students, residents	Survey other medical schools to identify best practices for cataloguing research opportunities for students. Communication with individual faculty researchers, department leaders, pathway leaders, etc.
Impress-COPD	Peter Lindenauer	Healthcare Delivery and Population Sciences (UMass Chan-Baystate)	Research	does pulmonary rehab improve outcomes for COPD patients	support	clinical trial
Family Health Center of Worcester Ryan White HIV Program Quality Improvement Project	Philip Bolduc	Family Medicine and Community Health	Community Health	The student will assist with a quality improvement project within Family Health Center's Ryan White HIV Program.	This will be determined based on the chosen QI project.	This will not be a study.
Improving Postpartum and Breastfeeding Education Among Medical Trainees for Provision of High-Quality Breastfeeding Medical Care to the Worcester Population	Pratiksha Yalakkishettar	Family Medicine and Community Health	Community Health	What are the needs among Worcester community members around breastfeeding and postpartum support in the clinical setting?	What are themes arising from collected qualitative data among Worcester community members who delivered in the past 12 months around breastfeeding and postpartum support in the clinical setting?	Qualitative data analysis and medical education environmental scan of breastfeeding education
Two Projects: Smoking Cessation in Hospitalized Patients; Exercise Prescription in Cardiac Rehabilitation	Quinn Pack	Baystate Cardiology; Department Healthcare Delivery and Population Sciences - Baystate	Research	Primarily Preventive Cardiology - some clinical exposure, several research projects	How to better help patients quit smoking. How to facilitate enrollment into cardiac rehabilitation. How to help patient exercise better in cardiac rehab.	Mostly clinical trials.
EMOWER Study-Equity in Mental Health and blood pressure Postpartum care via Web-Enabled Remote Monitoring	Tiffany Moore Simas	Ob.Gyn	Research	The primary objectives of the study are to improve mean postpartum systolic blood pressure at 6 weeks and reduce depression severity at 3 months postpartum as measured by the Edinburg Postnatal Depression Scale. Thus, the students will be collaborating with the study team to achieve the objectives and implement the results in our standard of care practice.	Student will develop a research question of interest based on the study outcomes.	Longitudinal cohort study clinical trial-Data collection, Data Quality Assurance, Study Monitoring, Medical Records Extraction and Shadowing a Study Recruiter on the Ob floor.
Program in Digital Medicine Projects	Soni Apurv	Medicine	Research	There are several projects to choose from with overall research question of how can digital health technology be used to understand disease conditions and improve clinical outcomes? For more details see: <a href="https://www.umassmed.edu/sonilab/">https://www.umassmed.edu/sonilab/</a>	Roles depend on students' interests and experience but can range from helping with participant-facing interactions, helping UX designers perform A/B testing for participant-facing content, to using statistical programming for preliminary data analysis. All students will be expected to perform literature review and contribute to scientific writing	Examples of ongoing projects include use of virtual telepulmonary rehab to improve COPD outcomes, use of teleactation services to improve maternal and child health, collecting data from patients' wearable devices to identify digital biomarkers associated with disease progression, exploring usefulness of data derived from smart toilets that can be installed in patients' home.