# 2019 IHPI/HSR Summer Student Fellowship and Internship Program & Health Equity Summer Research Award - Faculty Projects

Faculty Name	Email Address	Faculty Title	Faculty School Primary Appointment	Master-level or Doctoral-level Student	Do you have a Health Equity Project	Short description
						Predictive Big Health Data Analytics: This project will and incongruent biomedical and health datasets usin methods. Examples of studies that will be examined in ALS, Parkinson's, Alzheimer's) and machine-parsing images, audio, video). We will use supervised and ur the data, forecast univariate clinical outcomes, and ex software (R) will be used to generate end-to-end analientire community.
Ivo Dinov	dinov@umich.edu	Professor	Nursing/Medicine	Either	Yes	
Mis Woodword	mariawoo@umich.edu	Assistant Professor	Ophthalmology & Visual Sciences	Either	Voc	<ul> <li>Physician-scientist Maria A. Woodward, MD MS is see Ophthalmology. The goal of her study is to help clinic patients with microbial keratitis. This objective is to q treatment efficacy using electronic health record infor <b>Responsibilities will include:</b></li> <li>Literature review of relevant publications</li> <li>Collection, analysis and interpretation of electronic health <b>Opportunities will include:</b></li> <li>Interactions with patient and physicians</li> <li>Participation on scholarly manuscripts</li> </ul>
Mia Woodward	manawoo@umich.edu	Assistant Professor	Visual Sciences	Either	Yes	<ol> <li>various projects evaluating the Medicaid expansion</li> </ol>
						Medicaid expansion on mitigating disparities in cance
Susan Goold	sgoold@umich.edu	Professor	Medical School	Either	Yes	
Christine Veenstra	cveenstr@med.umich.edu	Assistant Professor	Medical School	Master-level student	No	We are currently surveying colorectal cancer survivor influence the quality of care received during the canc data as surveys are returned, contact patients and/or survey response data into our RedCAP database, an their surveys for follow-up.
						Pilot-testing a chronic pain self-management program
Mary Janevic	mjanevic@gmail.com	Assistant Research Scientist	School of Public Health	Either	Yes	Detroit.
Geoffrey Barnes	gbarnes@umich.edu	Assistant Professor		Either	No	In 2018, we implemented a new care pathway for patt thinners) and are scheduled for outpatient endoscopi evaluate the effectiveness of this implementation inter through this new pathway as compared to patients will abstraction, data entry, quantitative data analysis (stap preparation.
Country Dames	gournes & union.euu	1006350				

on of research project.

ill interrogate large, complex, multisource, time-varying, ing model-based and model-free machine-learning d includes progressive neurodegenerative disorders (e.g., og of unstructured text (e.g., physician or nursing notes, unsupervised ML strategies to identify salient features in explicate derived computable phenotypes. Open source nalyses protocols that will be validated and shared with the

seeking a master's or doctoral level student for research in icians develop rapid, personalized treatment plans for quantify the clinical features associated with outcomes and ormation.

health record information

on in Michigan, 2) preliminary data regarding impact of cer care/treatment/outcomes

ors and their spouses/partners to learn about factors that neer survivorship period. Students will review written survey or partners to clarify survey responses if needed, enter and contact patients/partners who have not yet returned

am delivered by community health workers to older adults in

atients who take antithrombotic medications (blood pic procedures at the University of Michigan. We plan to tervention by comparing the cohort of patients who went who did not. The summer intern would help with chart statistical analysis skills preferable), and manuscript

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		Research Assistant		Filler.	N/	Racial and ethnic disparities have been described in r These disparities have also been found in the Emerge findings that black patients wait longer to be seen and admitteda process called boarding which is associat patients have also been shown to receive less analge intensive medical testing and interventions for chest p The purpose of this investigation was to examine racia department care using multiple nationally representation
Xingyu Zhang	zhangxyu@umich.edu	Professor	School of Nursing	Either	Yes	Disperities in lunus sutcomes, including interactions u
						Disparities in lupus outcomes, including interactions w utilization
Emily Somers	emsomers@umich.edu	Assoc Prof	Medical	Either	Yes	
		Assistant Professor				We have two active studies related to addiction and he Preoperative Intervention Research (ASPIRE) Study a coaching intervention to influence problematic alcohol and reduce the cost of postoperative care. The Precis Surgery Study aims to use machine learning and natu define and categorize risky substance use to develop preoperative patients at risk of developing new persist
Anne Fernandez	acfernan@med.umich.edu	of Psychiatry	Medical School	Either	No	

n multiple aspects of medical care in the United States. rgency Department (ED). Examples of this include the and have a longer length of stay in the ED after being iated with increased morbidity and mortality. Non-white gesia for painful conditions and appear to undergo less t pain and treatment of ST Elevation myocardial infarction. acial and ethnic disparities in the pediatric emergency rative databases.

with nutrition, food security and health care access and

d health services research. The Alcohol Screening and dy aims to develop and examine a preoperative health hol use, improve patient health, bolster hospital outcomes, ecision Prevention of New Persistent Opioid Use Following atural language processing of electronic health records to op a prediction algorithm to identify and intervene with sistent opioid use.

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						Through qualitative research and review of literature, children with special needs. The work will take an ant stakeholders such as educators, parents, and childre will also explore how the subjective nature of decision special education. Once a behavioral need has been identified in the sch document and implement a behavioral plan. However accomplish this in practice. At the policy level, the prin The IEP is a federally mandated document intended t practice the IEP is vaguely defined and its implement a legal contract, and does not serve as a useful tool for The IEP is typically used for annual decisions such as can receive the appropriate level of support. Two com which were included in our study—are self-contained exclusively serve students with IEPs who need signifi required, these classrooms have a lower student to p students with IEPs among students without IEPs, the interact with peers in a more typical setting. Throughout a school year, parents report frustration v behaviors at school and progress on IEP goals. IEPs needs, outline what interventions will be used to addre the school year. But actual practices of documenting with the IEP or the related aim of sharing information management of IEPs have raised concerns that comp
Colorida Marcu			School of	Eith ar	N/cc	by reducing cost and time, rather than exemplary con
<u>Gabriela Marcu</u>	gmarcu@umich.edu	Assistant Professor	Information	Either	Yes	<ol> <li>Safety in patients undergoing orthopaedic surgery; orthopaedics; 3. influence of lipid disorders on muscu statins for augmenting orthopaedic surgical procedure</li> </ol>
Joel Gagnier	jgagnier@umich.edu	Associate Professor	Medicine	Either	No	

e, this project will investigate policy implementation around inthropological approach to understanding experiences of ren. By focusing on behavioral and emotional needs, we on-making results in racial disparities and inequity within

school setting, U.S. law requires school practitioners to ver, federal laws provide little guidance on how to primary guidance is the Individual Education Program (IEP). d to formalize plans for behavioral intervention, but in ntation varies considerably. In practice, the IEP is used as I for ongoing communication or collaboration.

as determining in which classroom to place a child so they ommon types of special education placement—both of ed and inclusion classrooms. Self-contained classrooms ificant accommodation. Due to the high level of intervention practitioner ratio. In contrast, inclusion classrooms place hereby enabling more independence and opportunities to

n with the lack of information they receive about their child's Ps are ostensibly used to document a child's behavioral dress behaviors, and set measurable behavioral goals for g behavior at school on a daily basis are not well aligned on with parents. Efforts shifting to computer-assisted mputerized methods are focusing on minimal compliance ompliance by improving quality of documentation.

y; 2. use of patient reported outcome measures in culoskeletal conditions and recovery from surgery; 4. ures.

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Andrew Shuman	shumana@med.umich.edu	Assistant Professor	Medical school (CBSSM)	Either	Νο	Drug shortages are frequent and major barriers to pro caused by manufacturing problems, natural disasters less effective treatment or even the absence of any e therapy, intravenous fluids, anti-infectives, and others shortages in various ways such as procurement advo other approaches. Often these approaches involve re transfer drug product or patients. But there are scant tasked with managing these situations, make real-time proposal aims to examine how hospitals in the state of find and describe best practices, and create real-time institutions, to more effectively provide care when resources are strained. statewide sampling designed to identify and engage k management of drug shortages. This research team of approaches to studying resource allocation schema a We also have the established relationships with comr to facilitate such work. This research will allow us to c best practices, and to design and refine an inter-instit shortage management across the state of Michigan.
						Cancer-related worry is common among cancer survi side effects, and the impact of their cancer on their fa initial treatment, this persistent worry can impact qual support tool for low-risk cancer patients identified thro (SEER) program. Patients will receive a brief survey of patients will then be directed to a website with details willingness to visit the website and use this tool. We we Ultimately the data from this feasibility study will lead for patients with low-risk cancers. We are looking for a student who can assist in the de include writing content, developing the website, worki for Health Communications Research (CHCR). Skills in health communication, graphic and/or softwar although are not required to apply.
Megan Haymart	meganhay@med.umich.edu	Associate Professor	Internal Medicine	Either	No	
						We are studying what drives high out-of-pocket costs example. Specifically, we are looking at surprise med economic/policy trends that are contributing to unsust
Karan Chhabra	kachhabr@umich.edu	Clinician Scholar	IHPI Clinician Scholars Program	Either	No	
Maran Unitable	Racillari e ullicii.euu	Cirrician Schola	ocholais Filograill			

providing consistent and high quality medical care. Whether its, or discontinuation of a product, shortages can result in reffective treatment in critical areas such as cancer ers. Healthcare institutions recognize and manage vocacy, stewardship of existing resources, rationing, and reaching out to neighboring institutions to potentially int data describing how organizations, and the individuals ime decisions and what informs those decisions. This e of Michigan currently handle drug shortages in order to ne collaboration and communication across state

d. This quantitative and qualitative study will involve e key stakeholders at institutions responsible for n offers substantial experience with methodological a and developing and evaluating pragmatic interventions. mmunities and stakeholders throughout the state necessary o discover needs and inefficiencies, highlight and analyze titutional platform to share information and enable drug

rvivors. Patients worry about recurrence, death, treatment family. For patients with low-risk cancers who are past ality of life. This study will evaluate the feasibility of a worry brough the Surveillance, Epidemiology and End Results y with questions about worry and worry support. The ils on a worry support tool. We will assess patient e will also measure patient report of tool usefulness. d to the design and implementation of a worry support tool

development of this worry support tool. This project may king closely with our MCubed team as well as the Center

vare design would be useful for this particular opportunity

ts for insured patients in the US, using surgical care as an edical bills, high-deductible health plans, and other istainable financial burdens on American patients.

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			School of Public			My research team examines how immigration-related Latino immigrants in Southeast Michigan. for example deportation causes some people to miss clinic appoir causes food insecurity. We use a mix of qualitative an identify potential solutions. We have written about our other news outlets. This summer, I am looking for an has good writing skills, and can assist with either qua will be launching a survey of immigrants to measure t health outcomes data from health-service providers.
Paul Fleming	pauljf@umich.edu	Assistant Professor	Health	Either	Yes	There is growing national enthusiasm for engaging pa
		Assistant Professor				diabetes mellitus (T2DM), such as participation in a w individually-directed lifestyle change. Yet, little attenti leverage processes through which patients receive he strategies. Insights from the fields of behavioral econ improving patient engagement in this area. The INcre (INVENT) pilot randomized controlled trial aims to det behavioral economics and health psychology on beha in the VA Ann Arbor Healthcare System. Students wi interpretation and dissemination of study results.
Jeff Kullgren	jkullgre@med.umich.edu	of Internal Medicine	Medical School	Either	No	
						Title: Assessing the influence of family care availabilit dementia in the US Aging in place is often assumed to be less costly than life for older adults with dementia. In community settin home care for older family members. However, not a caregivers who live nearby and can devote the time a in turn, influences the type and level of formal and info Detailed knowledge of potential family care availability policies and services. Few studies, however, have ex- of dementia, and few have assessed the influence of and transitions in dementia care. For sustainable cor allocations between informal and formal care is esser The overarching goal of this project is to inform policy coordinated and efficient care services that offer the o welfare of patients with dementia and their family care Aim 1 Determine the availability or "potential supply onset of dementia through the period during which old Aim 2 Examine how patterns and levels of potential transitions, and care costs at onset and during the co Aim 3 Examine how potential family care availability the costs and burdens of informal dementia caregivin
Hwajung Choi	hwajungc@umich.edu	Research Assistant Professor	School of Medicine	Either	No	

ed stressors impact health and healthcare utilization for ple, we have documented that the stress related to fear of pintment, avoid enrolling in public benefits, and sometimes and quantitative methods to study this relationship and pur work in the Detroit Free-Press, The Conversation, and an intern who is functionally bilingual in English/Spanish, ualitative data analyses or quantitative data analyses. We e their immigration-related stress and comparing that with

patients in evidence-based strategies to prevent type 2 weight loss program, use of metformin, or engagement in ntion has been devoted to how health care systems can health information to better engage them in key preventive onomics and health psychology hold significant promise for creasing Veteran EngagemeNT to Prevent Diabetes letermine the effects of 5 innovative strategies from haviors to prevent T2DM among patients with prediabetes will assist with data collection and analysis, as well as

ility on care transitions and costs among older adults with

an alternative types of care and to provide better quality of ttings, spouses and adult children most often provide int all older adults have access to willing and available family and energy required. Potential care availability of family, nformal care that older adults with dementia receive. lity for older adults is essential to develop effective aging examined potential family care availability prior to the onset of family care availability on care utilization during its onset community-based care service system, optimal care sential.

cy and intervention research - toward the development of e dual benefits of reducing costs while improving the aregivers. Specific aims are the following:

- bly" of family members of older adults from prior to the older adults have dementia.
- ial family care availability influence care utilization, care course of dementia.
- lity influences care allocation among family members and ing at onset and during the course of dementia care.

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						We will be using a nationally representative database as well as changing associations of bleeding with age
Jacob Kurlander	Jkurland@umich.edu	Clinical lecturer	Medical School	Either	No	
						As surgical training paradigms have evolved, standar volume requirements which served as basis for traini significant and appropriate changes have occurred w increased trainee oversight, and increasing specializa based training paradigm has not evolved despite these training paradigms that account for these changes in competency of graduates. One of the greatest challer based training program is logistical. It is unknown, ho the variability in how trainees learn to operate, or how impact trainees, their training programs, and their ins step in creating a time variable, competency-based tr investigate the interaction between work models, lear The hosted student will specifically work on literature This work is in collaboration with IHPI faculty member
Brian Coorgo	bagaarga@mad.umiab.adu	Assistant Professor	Medical School	Master-level	No	
<u>Brian George</u>	bcgeorge@med.umich.edu			student	No	Policymakers are paying increased attention to vertic high-profile mergers. However, horizontal integration practice patterns as well. National Provider Practices states, have multi-year contracts with numerous hosp Growth of NPPs has been greatest in hospital-based employ more than 10,000 hospitalists in more than 44 In spite of the rapid emergence of NPPs, we know ver particular, we do not fully understand why hospitals a staffing needs, or why hospitalist providers are joining develop a standard interview guide and perform in-de that contract with NPPs, as well as NPP leaders and
Lena Chen	lenac@umich.edu	Associate Professor	Medical School	Either	No	

se to examine changing rates of gastrointestinal bleeding, ge, gender, location, medications, and comorbidities.

ards developed including fixed length of training and case ning and determining competence. In more recent years, within surgical training, including work hour limitations, ization of different fields. The current time and case volume ese regulatory changes. There is a critical need to develop in modern surgical practice while also ensuring the lenges to implementing a new time variable, competencynowever, how these logistical constraints might interact with ow alternative work models (scheduling strategies) might institutions. As such, this research project represents a first training program. We will develop new work models and arning curves, and multiple outcomes related to feasibility. re reviews, data analysis, modeling, and simulation studies. ber, Amy Cohn, amycohn@med.umich.edu .

ical integration of health care providers, with several recent on is also on the rise and has the potential to change es (NPPs) are large physician practices that span multiple spitals, and employ hundreds to thousands of physicians. ed specialties, including hospital medicine. Indeed, NPPs 48 states, or at least one in five hospitalists.

very little about key drivers behind their growth. In and health systems are turning to NPPs for their hospitalist ng NPPs in such large numbers. Therefore, we propose to depth, semi-structured qualitative interviews with providers d hospitalists.

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						Improving Measurement Equivalence of Subjective W
						While valid assessment of subjective well-being (SWI increasingly reports measurement noncomparability of subgroups. One of the major contributors to this nonce respondents choose certain response points particular question content. For example, Hispanics are consider agree" or "agree" systematically more often than White affected by response style (e.g., Please say how much most ways my life is close to ideal."), a higher SWB so that Hispanics experience higher SWB than Whites of than Whites. This measurement noncomparability ma
		Associate Research		Doctoral-level		This project aims to examine not only detecting meas scales across racial/ethnic subgroups but also statisti of response style in measuring SWB. In particular, we and extreme response style when comparing across I Retirement Study (HRS), which includes a rich data s confirmatory factor analysis and item response theory multidimensional unfolding model to tease out the effe racial/ethnic subgroup.
<u>Sunghee Lee</u>	sungheel@umich.edu	Research	Research	student	Yes	The Michigan Surgical Quality Collaborative is a MSQ overall surgical quality improvement, including better and inclusive as we work together to transform surgic in 2005, today we provide our 72 member hospitals w lower costs. We are looking for students in all disciplin cases of clinical data. Collaborative relationships with Medicine further enhance cross-fertilization and stude Some potential areas for student research include: Opportunities for surgical quality improvement involvir enhanced recovery processes) Data science and use of data analytic approaches in I Questions surrounding surgery and insurance coverage of a rate of urgent and emergent surgery) Intraoperative factors that influence patient risk and of Research questions surrounding surgical patients use Implementation science and the use of bundled interv Link: http://msqc.org/ Leadership and team: http://msqc.org/msqc-coordinat
Greta Krapohl	krapohlg	Investigator	Medical	Either	Yes	MyVoice is a national longitudinal text message poll o
						youth voice to inform policies and practices to promot are asking about a variety of questions related to yout We are looking for summer fellows and interns who a team can guide fellows and interns starting from form relevant findings within weeks. Please check out our y
Tammy Chang	tachang@med.umich.edu	Assistant Professor	Medical School	Either	Yes	

#### Well-Being across Racial/Ethnic Groups

WB) is at the forefront of health disparity research, literature y of batteries designed to capture SWB across racial/ethnic ncomparability is response style, a tendency that ularly on Likert-type response scales regardless of the idered to be incline to acquiesce by choosing "strongly hites. Because SWB measures often rely on Likert scales uch you agree or disagree with the following statements. "In score by Hispanics than Whites, for example, may mean or that Hispanics simply agree to SWB questions more may make cross-racial/ethnic comparisons futile.

asurement noncomparability of well-established SWB stical/psychometric models that reduce the undesired effect we will focus on the effect of acquiescent response style s Hispanics, Blacks and Whites using the Health and set on SWB measures. We will employ multigroup ory to detect noncomparability and latent class analysis and effect of response style in comparing SWB across

SQC is a collaborative of Michigan Hospitals dedicated to er patient care and lower costs. We are multidisciplinary gical quality and deliver care that is cost effective. Founded with practical approaches to better patient outcomes and plines to capitalize on our large dataset of 500,000 surgical ith the University of Michigan Schools of Nursing and dent interactions.

ving process measures that impact patient outcomes (i.e.

n large clinical datasets. rage. (i.e. Do people who have private insurance have less

outcomes se of opioids and acute pain. erventions

nating-center-staff

I of over 1000 youth age 14-24. Our mission is to elevate note their health and well-being. We have ongoing polls that buth: from mental health to sex ed to opioids to Juuling. The passionate about health policies related to youth. Our rming a policy-important question to generating policyur website: www.hearmyvoicenow.org

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	imelling@mod.umich.odu	Clinical Lecturer	Michigan Medicine	Either	Yes	National surveys in the US have shown that the preva disorder have significantly risen between 2001 and 20 women, older adults, racial/ethnic minorities, and peo consumption can lead to severe and costly chronic dis sequelae including cirrhosis, alcoholic hepatitis, cance continues in the US, the burden of ALD will likely incre- will be needed to inform resource allocation decisions. This project aims to estimate the future burden of ALI transition simulation model. This project will also atter subpopulations within the US, particularly vulnerable g use. Finally, this project will estimate the burden of ALI will be varied.
<u>Jessica Mellinger</u>	jmelling@med.umich.edu				res	I have two primary active lines of research, and the st Regardless of the project, will require strong quantitat to assess adverse events related to psychotropic pres as describe the longitudinal trajectory of psychotropic epi type work. Second, we are using two companion I NSOC), each with multiple waves, to learn more about involve learning about longitudinal trajectory of these move forward, so I am flexible re: student proposing a (paper, poster, presentation, etc.), with my support for
	maustd@umich.edu	Assistant Professor Clinical Assistant Professor	Psychiatry	Either	Yes	Investigators from University of Michigan (U-M) Institu partnership with the Detroit Health Department, the S three Medicaid health plans, have collaboratively deve Worker (CHW)-led demonstration project in Detroit's workers who are trusted members of, or have an unu CHWs can be liaisons between agencies and the com in particular improving the cultural responsiveness of deployed one of their staff CHWs to the project for an identified beneficiaries to conduct an initial health, beli individualized 'action plan' with each beneficiary. U-M care utilization and costs among high-healthcare-utiliz enrolled. The team is exploring issues such as patien and barriers and facilitators to adoption, implementati The selected student will assist with all aspects of the management, qualitative thematic analysis, reviewing supervised by Dr. Michele Heisler (U-M Internal Media work collaboratively with other team members such a have the unique opportunity to become fully immersed participating in team meetings in Detroit and Ann Arbo qualitative interviews and will obtain training on qualitative qualified, there is also potential to be included on pub-

valence of alcohol use, high-risk drinking, and alcohol use 2013, with the steepest increases occurring among eople with low socioeconomic status. Heavy alcohol diseases such as alcoholic liver disease (ALD) and its ncer, and premature mortality. If the pattern of alcohol use crease, and better estimates of incidence and prevalence ns and policy development.

LD in the US, given the rise in alcohol use, through a statetempt to provide burden of disease estimates for e groups disproportionately impacted by high-risk alcohol ALD under different scenarios where alcohol use patterns

student could develop a project from one or both. tative skills. First, we are currently using Optum claims data rescribing (think overdose from benzos + opioids) as well ic use. Project option 1 = using claims data for pharmacon longitudinal nationally-representative surveys (NHATS + out older adult + caregiver dyads. Project option 2 would e dyads. Neither research grant requires student effort to g a topic broadly within either. Would ideally lead to product for the student to present their work.

itute for Healthcare Policy and Innovation (IHPI), in Southfield-Joy Community Development Corporation, and eveloped an innovative new model for a Community Health is Cody Rouge neighborhood. Defined as frontline health nusually close understanding of, the community served, ommunity, facilitating access and improving services, and of those services. Participating health plans have each an 18-month period. The CHWs proactively reach out to behavioral, and social needs assessment, and develop an M investigators are evaluating the project's effect on health ilizing participants compared to eligible individuals not yet ent-centered outcomes, project costs, return on investment, ation, maintenance, and potential spread.

he current project, including data analysis, data ng literature, and preparing reports. The student will be dicine) and Dr. Adrienne Lapidos (U-M Psychiatry) and will as the project manager and statistician. The student will sed in this research team's processes, including rbor. The student will help conduct on-the-ground litative coding and analysis. If the student is interested and ublications associated with this project.

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						'Without diagnostics, medicine is blind' (Alain Merieux diagnostics are underfunded and underutilized. There laboratory systems must be strengthened in low reso anti-microbial resistance, and address diseases of pu Organization has recently created the first edition of the should be available to a country's population.
						There are several potential projects available to stude system. One project is to map current test utilization i for the WHO EDL and determine which diagnostics s also developing a specimen transport service in Ghar country where local laboratory instruments are unava drivers and is funded by the Bill and Melinda Gates F mapping of the public health laboratory network in Gh system and evaluate the cost-effectiveness of alterna HIV, TB, hepatitis C, bacterial meningitis, yellow fever
						We are looking for dynamic students with a passion to strengthening of laboratory systems. It is expected the chosen project and incorporate a defined goal (e.g. a
<u>Lee Schroeder</u>	leeschro@med.umich.edu	Assistant Professor	Medical School	Either	No	This study is an evaluation of the incidence and imparesidents at an academic medical center as conducted UM ADVANCE, and the Department of OB/GYN and instrument (Sexual Experiences Questionnaire), a 20 "experiences with civility and respect in our institution School. This research project examine incidence of scharassment (gender harassment, unwelcome sexual (mental health, sense of safety at work, job satisfaction)
<u>Chithra Perumalswan</u>	cperumal@umich.edu	Research Fellow	Administration	Either	No	Although evidence-based treatment for PTSD is large best for whom. The purpose of this study is to inform answer this critical clinical question. Using machine le implementation of evidence-based psychotherapy no to identify variables that predict positive and negative response will improve treatment outcomes as well as
<u>Rebecca Sripada</u>	rekaufma@med.umich.edu	Assistant Professor	Medical School	Doctoral-level student	No	provision of treatment modalities that are unlikely to b conduct the machine learning analysis under the guid

eux). Yet, in many low and middle income countries, ere is a growing international recognition that clinical source settings to combat epidemic-prone disease, reduce public health importance. To this end, the World Health f the Essential Diagnostics List (EDL), detailing tests that

dents interested in looking at the clinical laboratory as a in low and high resource settings to develop benchmarks should be considered in subsequent EDL editions. We are ana to improve test utilization in remote areas of the vailable. It is based on the Uber business model using taxi Foundation. Finally, we are preparing for a multi-year Ghana. We will mathematically model the current laboratory native testing strategies with respect to 6 priority conditions: ver, and measles.

to improve health in low resource settings through that each student will take ownership of some aspect of a a manuscript, abstract).

bact of sexual harassment of medical students and bacted by the #MedToo Study, jointly funded by the CBSSM, and administered in June 2018. Using a validated survey 20-minute online survey was conducted to determine on" in the past year at the University of Michigan Medical of sexual harassment and specific dimensions of sexual al advances with and without coercion) and outcomes otion, and attrition among others).

gely effective, it is unknown what type of treatment works m PTSD treatment decision tools and ultimately help learning, this project will leverage data from the national note templates and the measurement-based care initiative ve treatment outcomes in PTSD. Predicting treatment as the cost-effectiveness of treatment by reducing the b be successful. The IHPI/HSR Summer Student will uidance of our collaborator in the Department of Statistics.

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Andria Eisman	aeisman@umich.edu	Research Assistant Professor	School of Public Health	Either	Yes	This project focuses on initial steps for tailoring the st youth facing individual and contextual risk. It will invo the state on challenges to delivering the program in c other programs have used implementation strategies reviewing the current curriculum to identify possible a interested in learning more about implementation scie State Health Department partners.
Mousumi Banerjee	mousumib@umich.edu	Anant M. Kshirsagar Collegiate Research Professor	Public Health	Either	No	The proposed project is motivated by a collaboration v (PC4), a clinical registry including over 30 children's h important outcome in children with critical cardiovascu increased resource utilization in the CICU. The centra can be enhanced by utilizing large-scale registry data uncover patterns of physiologic changes unrecogniza this project is to develop a machine learning based fra population. Towards that end we will develop machine data, time-series data, tandem data resources) that a settings, including the PC4 population.
						The primary project is a clinic based intervention to in monitoring and low carbohydrate diet counseling. We carbohydrate diet counseling for diabetes prevention.
<u>Caroline Richardson</u>	caroli@umich.edu	Professor	Medical school	Either	No	Examining health effects among older adults who have
Sue Anne Bell	sabell@umich.edu	Assistant Professor	School of Nursing	Either	No	

state adopted health curriculum to better suit the needs of volve analyzing qualitative data from health teachers across communities serving high risk youth, investigating how es to tailor programs for marginalized populations and areas for adaptation. The project is suitable for someone cience, addressing health disparities and collaborating with

n with the Pediatric Cardiac Critical Care Consortium shospitals with pediatric CICUs. Extubation failure is an scular disease because of downstream complications and tral hypothesis is that risk prediction for extubation failure ta in tandem with small-scale granular physiologic data to zable to even experienced clinicians. The overall goal of framework that can influence real-time clinical care in this ine learning methods for complex designs (e.g. clustered t are frequently encountered in many healthcare delivery

improve type 2 diabetes control using continuous glucose We have two other studies looking at using CGM and low on.

ave lived through natural disaster.

Faculty Name	Email Address	Faculty Title	Faculty School Primary Appointment	Master-level or Doctoral-level Student	Do you have a Health Equity Project	Short description
Lisa Prosser	lisapros@umich.edu	Professor	Medical School	Doctoral-level student	Νο	Incorporating Equity Considerations into Cost-Effective With the increasing number of highly costly orphan dianalysis for coverage decisions have proposed highe providing effective treatments for rare conditions. In the Excellence has developed an alternate threshold for the conditions for magnitude of benefit and rare diseases. Review has proposed an alternative value framework consider more broadly which attributes of the disease address equity considerations in the context of cost-effective orphan drugs. For example, distributional impacts no framework could include societal preferences relating disease severity. Further, interest to consider health growing because of recognition by decision makers in important goal that health systems should strive for a This project aims to understand the cost-effectiveness review of the literature. The review will consider a wice such as the use of health equity weights, alternative of parameters. Research leading from this study will pro- considerations into the cost-effectiveness framework analysis (e.g., multi-criteria decision making). This pro- decision science and economic evaluation methods.
		Professor	Medical School		No	Diagnostic decision-making is a highly complex cogn to errors. Clinicians working in emergency departmer errors due to time-pressured decision-making in char complex interplay between various patient (e.g. healt behaviors), provider/care-team (e.g. cognitive load or systems (e.g. health information technology, crowdin in the ED, we must use methods that account for the diagnostic process and address the underlying risk th The IHPI intern would assist study team with creation the ED providers, patients, and their caregivers which taken to achieve a goal (e.g. number of clicks on the work with physicians, nurses and engineers as well a will include observation and data collection on the info among various ED providers, including team membe documenting how clinicians prepare, gather, record, a as well as during patient consultations (i.e. we will ob

#### tiveness Decision Making

drugs, organizations that conduct cost-effectiveness her cost-effectiveness thresholds to recognize the value of a the UK, the National Institute for Health and Care in "highly-specialized technologies" that meet certain es. In the US, the Institute for Clinical and Economic irk for "ultra-rare diseases". The goal of this study is to se, treatment, or patient population should be considered to -effectiveness analysis beyond the specific context of not considered in the conventional cost-effectiveness ing to age, race/ethnicity, socioeconomic status, and th equity in the context of cost-effectiveness analysis is in resource limited settings that health equity is an alongside efficiency.

ess and health equity landscape by conducting a systematic vide range of topics and methodological advancements, e cost-effectiveness thresholds, and population-specific propose alternate frameworks for incorporating equity rk (e.g., equity weights) or alongside the cost-effectiveness project is best suited for doctoral-level trainees interested in

pritive process involving uncertainty, making it susceptible ents (EDs) are particularly vulnerable to making diagnostic aotic environments. Diagnostic errors result from a alth literacy, presenting symptoms, complexity, and on providers, information gathering and synthesis) and ing, and interruptions) factors. To reduce diagnostic errors be dynamics of human-system interaction inherent to the this interaction poses.

on of a ED process flow map by conducting observations of ch will include various elements, such as tasks, the time e EHR, interruptions, breakdowns). The IHPI intern will as patients to ensure the success of data collection. This information-intensive activities and communication practices bers (nurses, consultants). Through observation I, and discuss information about patients to make decisions observe patient-provider information exchanges).

Faculty Name	Email Address	Faculty Title	Faculty School Primary Appointment	Master-level or Doctoral-level Student	Do you have a Health Equity Project	Short description
Brendan Nyhan	bnyhan@umich.edu	Professor of Public Policy	Ford School of Public Policy	Doctoral-level student	No	<ul> <li>Ph.D. student with advanced statistics and text analys consumption of information from pro- and anti-vaccine http://www-personal.umich.edu/~bnyhan/fake-news-20</li> <li>The work to be done is the following:     <ul> <li>complete updated data collection of anti- and pro-vac https://doi.org/10.1080/17538068.2016.1235531</li> <li>calculate respondent-level exposure measures in You-work with PI and co-PIs to make tables and graphs d -help draft and edit article reporting results (potentially commitment and contribution)</li> </ul> </li> <li>IHPI Director John Ayanian, MD, MPP is seeking a masystematic organizational research study of all global I Michigan Ann Arbor campus, in order to identify different Responsibilities will include: <ul> <li>Research review of relevant websites</li> <li>Literature review of relevant program materials, reporting the student will be expected to submit a final reportion.</li> </ul> </li> <li>The student will be expected to submit a final reportion of an analysis of the University</li> <li>Current level of satisfaction with existing resources and substanting resources or opportunities</li> <li>Opportunities where Michigan might further different for the student will be expected to submit a final reportion.</li> </ul>
John Ayanian	ayanian@med.umich.edu	Professor	Medical School	Either	No	
Vanessa Dalton	daltonvk@med.umich.edu	Professor	Medical School	Master		Cesarean delivery (CD) accounts for one-third of all bi increase of approximately 50% in the last decade. Ele the rising cesarean rate, resulting from the combinatio rate of vaginal birth after cesarean (VBAC). A primary decline in frequency with which eligible women elect a this decline are unclear; in particular, significant racial/ known about the extent to which patient preferences h help patients and providers engage in patient-preferen- to delivery after cesarean are lacking. We propose to preference drivers of delivery approach (TOLAC or EF women using the National Inpatient Sample dataset, a shared-decision making tools to improve knowledge a have the opportunity to work in a team to 1) conduct lif women, 2) participate in women's health services rese learn, or improve skills in statistical software use, 4) le of large, national databases, and 5) participate in abst

lysis skills needed for research project analyzing public ine websites. (This project will follow a similar approach to -2016.pdf.)

vaccine websites following procedure in Moran et al.

YouGov Pulse data s documenting correlates of exposure ally as coauthor conditional on appropriate level of

master's or doctoral level student to conduct an in-depth, al health programs and resources on the University of erentiators, areas of overlap, gaps, and opportunities.

ports, publications

tudents, staff)
port that includes:

& collaboratoin between U-M schools and colleges

ntiate and distinguish itself

births in the US, representing an Elective repeat CDs (ERCD) are a significant contributor to tion of an increasing rate of primary CD and a decreasing ary driver of the decreased frequency of VBAC is the a trial of labor after cesarean (TOLAC). The reasons for ial/ethnic disparities exist in rates of VBAC, and little is s have contributed to this decrease. In addition, tools to rence driven, shared decision making regarding approach to 1) identify sociodemographic, clinical, and patient ERCD) and mode (VBAC or CD) among TOLAC-eligible and 2) use this data to create innovative, personalized and reduce decisional conflict about TOLAC. Students will literature review on a critical healthcare problem affecting esearch activities, including workshops and seminars, 3) learn, or improve skills in data management and analysis ostract/presentation/manuscript creation and submission