

Master of Population Health Sciences News Bulletin



MPHS Leadership

Dr. Graham Colditz, Program Director
Drs. Adetunji Toriola and Yikyung Park, Deputy Directors
Dr. Allison King, Associate Director for Medical Students

The Master of Population Health Sciences (MPHS), offered by the School of Medicine, is a one-year full-time degree program for clinicians seeking training in clinical research methods. Its quantitative curriculum emphasizes the role of epidemiology and biostatistics in clinical effectiveness and outcomes research.

Congratulations to Students Completing the MPHS Program in 2020!

The following MPHS students will earn their MPHS this spring:

Arthur Aung - Medical Student

Trisha Bhat - Medical Student

Shahroz Fatima - Medical Student

Ioana Florea - Medical Student

Lucas Fowler - Medical Student

James Giles, MD - Fellow, Dept. of Neurology

Wesley Hodges - Medical Student

Lena Jia - Medical Student

Preethi Kesavan - Medical Student

Uzma Naim, MD

Tarik Phillips - Medical Student

Sean Smith, MD - Resident, Physical Medicine and Rehabilitation

Shirli Tay - Medical Student

Gabriel Tissian - Medical Student

Ian Wood - Medical Student

Alexander Yahanda - Medical Student

Washington University has made the difficult decision to cancel all May Commencement ceremonies, including the MPHS/AHBR/MSCI Joint Recognition ceremony, due to health and safety concerns related to COVID-19. In lieu of a recognition ceremony this year, we have created a webpage with photos and brief bios to celebrate each student:

<https://mphps.wustl.edu/commencement/>

New MPHS Faculty Yin Cao, ScD, MPH



Teaches Intermediate Clinical Epidemiology
Offered fall semesters, Tues/Thurs 9:00 a.m. - 12:00 p.m.

Yin Cao, ScD, MPH, is an assistant professor in the Division of Public Health Sciences and the Division of Gastroenterology. Dr. Cao is a cancer epidemiologist with extensive training and research experience in epidemiologic study design and molecular/nutritional/clinical epidemiology. Since joining Washington University in 2017, she has built a multi-disciplinary team that focuses on emerging risk factors for early-onset cancers. She'll be taking the place of Dr. Bettina Drake in teaching Intermediate Clinical Epidemiology, a required class for the MPHS degree, taught in the Fall 2 semester on Tuesdays and Thursdays from 9:00 a.m. to noon.

MPHS STUDENT RESEARCH SPOTLIGHT



Preethi Kesavan won the Hemostasis and Thrombosis Society Student Research Award and the American Society of Hematology HONORS (Hematology Opportunities for the Next Generation of Research Scientists) Award. She also published “Impact of Health Care Reform on Technology and Innovation” in *Hand Clinics* with her mentor in the division of orthopedic surgery, Christopher Dy, MD, MPH.

Shahroz Fatima collaborated on a poster selected for the 2020 Digestive Disease Week Conference (being presented remotely this year). The project is titled “Validation of the predictors of choledocholithiasis and proposed management algorithm from the ‘2019 ASGE Guideline for the role of endoscopy in the evaluation and management of choledocholithiasis.’”



Uzma Naim, MD was a contributing author on “Circulating Serum Fatty Acid Synthase is Elevated in Patients with Diabetes and Carotid Artery Stenosis and is LDL-Associated,” published in *Atherosclerosis*.

Abby Cheng serves as PI on “Mental Health, Mobile Health, and the EMR,” a project that won the WU/BJC Big Ideas \$50,000 innovation award. She also published an article based on research she did through the MPHS program: “The Effect of Psychological Impairment on Outcomes in Patients with Prearthritic Hip Disorders: A Systematic Review and Meta-analysis” was published in the *American Journal of Sports Medicine*. MPHS alum Maria Schwabe, MD and MPHS Program Director Graham Colditz, MD, DrPH, were collaborators on the paper. In the past academic year she also published “Hip Radiograph Findings in Patients Aged 40 Years and Under with Posterior Pelvic Pain” in *PM & R*.



Patrick Phelan, MD/MPHS '20 published “How Should the Recovery Process Be Shared Between Patients and Clinicians?” in the *AMA Journal of Ethics*, co-authored by MPHS instructor Mary C. Politi, PhD and Christopher Dy, MD, MPH..

Stop the Virus

As part of his MPHS coursework in “Principles of Shared Decisions Making,” taught by Mary C. Politi, PhD, **Ian Wood, MD/MPHS '20**, has created communication tools to help high-risk communities better understand how they can protect themselves against COVID-19. Wood created graphics that accompany simple text acronyms to communicate how to wash your hands and safely wear a mask as prevention strategies. The messages are being printed and handed out in community centers in St. Louis.

Stop The Virus: WASH!



Stop The Virus: MASK!



Are you alumni with news to share? We'd love to hear it! Send it to Kelly Oman at KLOman@wustl.edu.

NEW FALL CLASS:

Psychiatric and Behavioral Assessment in the Digital Age

Coursemasters:



Rumi Kato Price, PhD
(pricerk@wustl.edu)



Patricia Cavazos-Rehg, PhD
(pcavazos@wustl.edu)



Ginger E. Nicol, MD
(nicolg@wustl.edu)

Guest Lecturers:



Ellen E. Fitzsimmons-Craft, PhD
(fitzsimmonse@wustl.edu)



Shannon N. Lenze, PhD
(slenze@wustl.edu)



Alex Ramsey, PhD
(aramsey@wustl.edu)

We're excited to offer a new class for the Fall 2020 semester, "Psychiatric and Behavioral Assessment in the Digital Age." This course will be co-taught by Rumi Kato Price, PhD; Patricia Cavazos-Rehg, PhD; and Ginger Nicol, MD; with guest lectures by Ellen Fitzsimmons-Craft, PhD; Shannon N. Lenze, PhD; and Alex Ramsey, PhD.

The course will provide an introduction to the growing field of digital-based psychiatric assessment and prevention tools, with the goal of guiding students in developing their own digitally-implemented psychiatric and behavioral health research projects. The course focuses on developing innovative studies using these tools, including mobile health (mHealth) technologies.

Students will learn about psychiatric disorder nosology, diagnostic assessment and screeners; existing treatment and intervention research using digital platforms; examples of analyses that include social media; implementation of mental and behavioral health research using digital platforms.

This class will be held Thursdays from noon to 2 p.m.

MPHS

Master of Population Health Sciences

News Bulletin

Why Choose the Master of Population Health Sciences Degree Program?

The MPHS degree program accelerates clinical research expertise and gives physicians, residents, fellows, clinical doctorates, and medical students the foundation to excel in leading, designing, conducting and moving research to applications in clinical settings. The curriculum emphasizes the role of clinical epidemiology and biostatistics in clinical effectiveness and outcomes research. Population health sciences training brings together passion for patient care and uses research to improve health outcomes for patients.

A Guide to the MPHS Concentration Tracks

***MPHS students must take seven core courses, plus electives in a chosen concentration.
33 credits are required for graduation.***

Introduction to SAS

Ethics in Population and Clinical Health Research

Biostatistics I and II

Intro and Intermediate Epidemiology

Grant Writing

*(Also required for Med Students:
Current Topics in Public Health)*

Clinical Epidemiology

Focuses on rigorous clinical research study designs, the role of epidemiology in disease prevention, and clinical health outcomes including analysis of prevention and screening programs, evaluation of treatment and disease management programs, and the application of prediction rules.

Required Electives

- Randomized Controlled Trials
- Systematic Reviews and Meta-Analysis
- Plus three additional electives

Health Services

Provides advanced methods training to evaluate and identify the most appropriate and effective approaches to clinical care, including prevention, early detection, and disease management. Research interests include cost-effectiveness analysis, decision analysis, health services research and quality improvement.

Required Electives

- Patient Safety, Quality Management and Improvement
- Decision Analysis and Economic Evaluation
- Plus two additional electives

Psychiatric & Behavioral Health Sciences

Gives students conceptual and methodological skills required for the design, advanced analysis, and interpretation of epidemiological, treatment-effectiveness studies and policy studies. Emphasizes a clinical and evidence-based approach to psychiatric and addiction health science research.

Required Electives

- Addiction & Addictive Behaviors
- Global Burden of Disease
- Psychiatric & Behavioral Assessment in the Digital Age
- Plus three additional electives

Interested in the MPHS program?

Applications for the 2020-2021 academic year are still being accepted on a rolling basis.

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www.mphs.wustl.edu

Questions?

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