$$n(t, x, z) = p(t^{p-1}) + \sum \beta_j X_{ij} \quad \gamma Z_{ik} + \sum \sum \delta_j X_{ij} \times mort$$

New Faculty Associates

Muna Adem, Sociology, examines how immigration-driven diversity influences race relations, group divisions, and ethnoracial inequalities. Her work is grounded in theories of race and ethnicity, group processes, collective action and immigrant incorporation. Methodologically, she uses a range of strategies, including advanced statistical techniques, network and text analysis, behavioral and survey experiments, and mixed-methods. She is also keenly interested in producing and sharing original data sets that help us resolve empirical puzzles on the role of ethnoracial diversity in novel and rigorous ways.

Héctor Alcalá, Behavioral and Community Health, studies the impact of early life adversity on health: in particular how adversity impacts cancer risk and known correlates of cancer like smoking, cancer screening and use of health services. He also studies health disparities, with a strong focus on racial and ethnic disparities, and racism as a driver of racial disparities. His work explores differences between broad racial categories, examines how policies have impacted these disparities, and examines the heterogeneity that exists within racial and ethnic groups.

Niambi Carter, Public Policy, is concerned with migration as a feature of Black life, most importantly, the process of self-determination. How America helps, hinders, or honors those migrants' claims for relief is central to her work, which is primarily domestic in orientation but also international. At the

☞ PAA 2024 Annual Meeting

Submissions Due October 1

Director's Note

Dear MPRC community and supporters. It is a great pleasure not only to welcome you back from the summer break, but also to welcome seven new Faculty Associates and four new External Affiliates, one of whom, Nicole Angotti, is visiting MPRC in her sabbatical this year (see descriptions of all 10 through this Newsletter). A "silver lining" of the pandemic has been the increased engagement of our External Affiliates, made possible through the hybrid remote and in-person seminar series. We look forward to further strengthening our outreach to population researchers from other institutions in the coming year, and to continuing to gain from their engagement with us here at UMD. Our MPRC staff and leadership have been very busy this summer with preparing our P2C five-year renewal submission for July, which formalizes our plans for the ongoing provision of resources to our External Affiliate community; and preparing the supplemental P2C award submission to take us through summer 2024 (see "Recent Awards"). I thank all who have contributed to these important population research infrastructure planning efforts. On active and new research projects funded by NIH grants, we are pleased to highlight in this Newsletter first the Kenya project update (PI Sangeetha Madhavan); we all enjoyed the presentation by the team (Madhavan, Leonard, Stoebenau) in the final Spring Seminar series slot. We also highlight two large NIH-funded projects each providing fine-grained spatial examinations of birth outcomes and infant health, respectively from wildfire pollution exposure (PI Boudreaux, with Co-Is including MPRC Faculty Associates Sapkota and Puett), and from areal level racial bias (Quynh Nguyen). Now that the new semester is underway, we look forward to seeing many of you at the Fall Seminar Series, beginning next Monday with Professor Katharine Donato from neighboring Georgetown University speaking on the topic of "Protective Resources, Legal Status, and the Integration of U.S. Immigrants Entering as Unaccompanied Children," in-person but also with Zoom link provided for those unable to attend in person.

Special Announcement

Delaware Contraceptive Access Now (DelCAN) Evaluation "wrap-up" event

On September 1st, 2023, the Delaware Contraceptive Access Now (DelCAN) Evaluation all-day "wrap-up" event was held at the Westin Wilmington Hotel in Delaware, with Delaware and out- of-state stakeholders all coming for the event. Faculty Associates Michael Rendall (Project Director), Michel Boudreaux (Aggregate Outcomes and Causal Impacts Topic Lead), Mónica Caudillo, and Julia Steinberg all presented, as did MPRC External Affiliates Mieke Eeckhaut and Daniel Marthey, and MPRC Student Affiliates Deonté Hughes, Constanza Hurtado, Taehyun Kim, and Maranna Yoder. Example papers included "Contraception changes in the general population, Medicaid population and at Title X Clinics" (Boudreaux), "Contraceptive Sterilization, Sterilization regret, and associations with LARC use and abortion attitudes" (Eeckhaut), and "Provider-patient interactions and race/ethnic disparities in unintended births"(Hughes). This evaluation project, which is now coming to a close, has produced more than 30 peer-reviewed articles on topics related to contraception, fertility, and reproductive health since 2018 (see https://popcenter.umd.edu/delcaneval/publications), substantially adding to impacts of MPRC researchers on the field of contraception and reproductive health.

Michel Boudreaux, Health Policy and Management

Wildfires and Infant Health, NIEHS

Drawing upon research conducted through an MPRC Seed Grant, Prof. Boudreaux and colleagues examine the impact on infant health of increasing wildfire pollution.

Climate change is increasing the frequency and intensity of wildfires in the United States. By 2011, 25-40% of all small particulate matter air pollution in the US was attributed to wildfires and the contribution of wildfires to air quality will likely increase as they proliferate and other anthropogenic sources decline. Wildfire produced air pollutants are spread across thousands of miles by prevailing winds. Wildfires, and the air pollutants carried by their smoke plumes, have profound impacts on adult health. However, far less is known about their impacts on infants, who are particularly sensitive to the adverse exposures associated with wildfire events. Air pollution, psychosocial stress, and community disruption in the prenatal period and in the first year of life could adversely impact birthweight, gestational age, hospital service use, and infant mortality. The project will link high-resolution, state-of-the-art exposure measures - developed from satellite observations, ground monitors, and numeric modeling - with natality, hospital discharge, and mortality records from 2003-2019. Natality and linked birth-death records cover a near census of births from every US county. Hospital discharge records, from 15 states, include all discharges from all payers, and have been individually linked to birth and death records. Aims for this project are to: (1) Measure the extent and sociodemographic, geographic, and temporal patterns of prenatal and first year of life exposure to smoke-plumes, wildfire produced air pollutants, and local wildfire events; (2) Estimate the impact of total pregnancy and trimester-specific wildfire exposure on health at birth, health service use, neonatal and infant mortality; and (3) Examine the moderating influence of socio-demographics and baseline air pollutant exposures. The impact of wildfire exposures on infant health will be estimated in a fixed effects regression framework that isolates the impact of exposure from confounders that predispose infants with different health risks to wildfire exposure. This approach compares wildfire-exposed infants to wildfire-unexposed infants born in different years, but in the same county and calendar month. The analytic framework provides a direct method for testing for the presence of pre-existing trends, a principal threat to causal inference. Results from the study will be the first national estimates of infant exposure to wildfires and smoke-plumes and their impacts on infant health outcomes. These findings will be critical for mitigation planning as climate change continues to accelerate wildfire growth in the coming decades.

JAMO mid-project update

MPRC faculty associates Sangeetha Madhavan, Kristin Stoebenau and Kenneth Leonard joined the Kenyan research team for a mid project workshop for the Kinship, Nuptiality and Child Outcomes in Kenya (JAMO) project. During the week in Nairobi, the team 1) took stock of what has been learned from three waves of data collection; 2) developed a timeline for publications; 3) engaged stakeholders from the Kenyan government to better align findings with policy initiatives; and 4) brainstormed future funding directions. Before the workshop, Madhvan (bottom row, 2nd from left), Stoebenau (top row, center) and Seung Wan Kim (MPRC student affiliate, top row right) took part in an intensive one-week training for Round Two of qualitative data collection. Anyone interested in the data should talk to Sangeetha Madhavan.

New Affiliates

External Affiliates

Nicole Angotti, Associate Professor of Sociology, American University, working with Sangeetha Madhavan during a semester research sabbatical. Her Research sits at the nexus of population health and medical sociology, and focuses broadly on cultural, social, and institutional dimensions of health and wellbeing that produce differences in how individuals and populations experience epidemics. Specifically, her work largely focuses on three cross-cutting themes, largely on 1) sexual health in later life; 2) differential incorporation of global intervention in local context and 3) social production of demographic data and knowledge about health in sub-Saharan African contexts She recently begun a new line of research focused on the vulnerabilities to health and wellbeing associated with aging alone (or with minimal household support) and youth underemployment.

Kathleen Beegle, Lead Economist, World Bank, working with Sangeetha Madhavan and others - She is currently a Lead Economist with the World Bank Gender Group, joining in 2018 and was previously a Human Development Program Leader based in Accra, Ghana. Her research experience includes the study of poverty, labor, shocks, and methodological studies on household survey data collection in developing countries. She received her Ph.D. in Economics from Michigan State University.

Carrie Shandra, SUNY Stony Brook, working with Liana Sayer - time use -Her research is broadly focused on understanding work and life course inequalities in the United States, particularly as they occur during the transition to adulthood and among individuals with disabilities. Her research on work includes both paid employment and other forms of productivity that may not be compensated in the market - including care work, housework, and volunteering. She is currently writing a book about internships and the college-career transition.

Deadric Williams, University of Tennessee Knoxville, working with Rashawn Ray -He has been an Assistant Professor of Sociology in the department of sociology at the University of Tennessee, Knoxville. His research focuses on race & racism, Black families, poverty & economic hardship, stress & health, and quantitative methods (longitudinal and dyadic analyses). His work emphasizes three general themes: (1) Critical Race Theory and Black family life; (2) reciprocity between stress and relationship health in couple dyads; and, (3) stress exposure and mental (and physical) health outcomes.

same time, she looks at contemporary and historical patterns of migration not only as human movement but also as political strategy. As migration increasingly results from climate change, she is interested in what this means for Black people and how they are treated in the refugee context.

Long Doan, Sociology, examines everyday interactions as sites in which the social inequalities associated with sexuality, gender, and race are produced, proliferated, and perpetuated. He studies how people react to the structural conditions and cultural expectations in which they find themselves, as well as how people's sexual, gender, and racial identities shape others' expectations of, reactions to, and treatments of them. Although the focus is on micro-level processes, he shows how these processes aggregate to the population.

Rebecca Gourevitch, Health Policy and Management, is a health services researcher using quantitative methods to study quality, affordability, and access to health care for pregnant people and their families in the United States. Her recent work has focused on novel ways of measuring prenatal care quality, evaluating policies that could improve access to high-quality prenatal care and reduce racial disparities. She also examines the impact of safety net health care providers and social services on access to high-quality prenatal care, including Federally Qualified Health Centers (FQHCs) and a nurse home visiting program. She also is pursuing new work related to access to contraception, abortion, and infertility treatment.

Jing Liu, Teaching and Learning, Policy, and Leadership, uses rigorous quantitative evidence to evaluate and inform education policies at the national, state, and local levels, with the goal of improving learning opportunities for historically marginalized students in urban areas. His work broadly engages with critical policy issues including student absenteeism, exclusionary discipline, educator's labor market, and school reform. Grounded in economic theory and policy analysis, he uses both quasi-experimental designs and data science methods such as computational linguistic analysis to analyze large administrative data and unstructured information. He is also working closely with research/practice partnerships, such as the Maryland Longitudinal Data Center, San Francisco Unified School district, and the newly established DC Education Research Collaborative, to answer pressing questions to policymakers and translate research to practice.

Nicolas Smith, Sociology, conducts research spanning three interrelated areas that lie at the intersection of medical sociology, social psychology, and race-ethnicity: racial residential segregation and health; stress-related mechanisms of health inequalities; and social network activation during health-related crises. He employs multiple quantitative methods and leverages U.S. Census and individual-level survey data and his findings problematize unidimensional frameworks of racial residential segregation and raise the possibility that living in segregated communities may offer advantages and disadvantages, particularly for Black Americans.

Recent Grant Submissions

Since the beginning of the year MPRC personnel helped researchers to propose more than $1.1 million in new funding. Proposals marked with an asterisk (*) have been funded. Recent Awards are listed on page 4.

Monica Caudillo and Andres Villreal
Infant Health during the COVID-19 Pandemic in Mexico, NIH-NICHD, $170,000.

Constanza Hurtado
Do Women's Employment Trajectories Matter for Union Formation? An Assessment of Evidence from the U.S. And Latin America, Washington Center for Equitable Growth, $15,000.

Heide Jackson and Michael Rendall
Evaluating indirect survey question methods on reproductive health behavior NIH/NICHD, $451,358.

* Sangeetha Madhavan, Greg Hancock, Kirsten Stoebenau
Admin Supplement - Kinship, Nuptiality and Child Health Outcomes in a Low Income Urban Area, NIH/NICHD,$100,000.

Michael Rendall, Sonal Desai, Sharan Sharma
Acquisition of disability and chronic morbidity in older Indians following extreme urban coastal flooding events, NIH-NIA, $413,476.
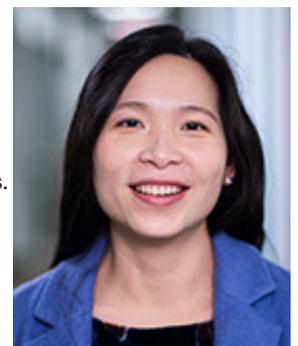
> MPRC offers comprehensive support for grant proposal development and management

Research Profile
Quynh Nguyen, Epidemiology and Biostatistics

Risk and strength: determining the impact of area-level racial bias and protective factors on birth outcomes

There are large and persistent racial and ethnic disparities in preterm birth and low birth weight. Individual-level risk factors do not fully explain the observed disparities. There is increasing evidence for the role of area-level racial bias in explaining these disparities, but we currently lack the measures, methods, and findings to empirically evaluate its influence. This project will advance the research in all three areas. The team will use online and social media data and machine learning models to create two measures of area-level racial bias and implement a robust research design to determine whether area-level racial bias impacts birth outcomes. The investigative team - composed of experts in the field of epidemiology, health disparities, machine learning, social media data, biostatistics, and community engaged research - is uniquely suited to implement the study aims. The project aims are to 1) track and detect changes in area-level racial bias and identify local and national race-related events during these time points; 2) determine the impact of changes in area-level racial bias on changes in adverse birth outcomes; and 3) identify protective factors for adverse birth outcomes. Because the data is collected repeatedly and finely across the United States, it will be possible to account explicitly for temporal trends and place effects. This project uses new data to capture trends in racial bias with sophisticated machine learning models and represents a critical advancement in the investigation of racial disparities in birth outcomes.

Research Profile
Niambi Carter, School of Public Policy

Collaborative Research: The Role of Elites, Organizations, and Movements in Reshaping Politics and Policymaking, NSF

Arguably, the current political climate is the function of three seemingly distinct, yet interrelated, ongoing phenomena: 1) a contentious, problem-laden political environment, 2) grassroots organizations driving unprecedented levels of engagement and turnout, and 3) national movements driving discourse, preferences, and reform around long-held policy grievances. This project examines how these features of the American polity shape public and institutional political behaviors and aims to build a network, and supportive infrastructure, to better understand how political elites, organizations, and movements in key political locations work to drive participation, preferences, and policymaking.

The research team examines two broad research questions: How do organizations and social movements mediate political preferences and policy agendas amongst the mass public? and How does the collaboration between organizations and social movements shape traditional and untraditional forms of political participation? The study draws on a comprehensive mixture of quantitative (surveys, survey experiments, voter data analysis, social media analysis, and social network analysis) and qualitative (ethnographic observations, content analysis, elite interviews, and focus groups) methodological approaches to answer these questions. It examines political activities during two electoral periods in several transformative states and municipalities. The broader impacts of the study are numerous. First, it connects a network of scholars from a diverse set of institutions. The project builds critical infrastructure at partner institutions to facilitate data collection and analysis. Specifically, it 1) builds mobile research labs designed to conduct rapid response surveys during protests and organizational rallies; 2) establishes data analysis centers at two minority serving institutions; and 3) provides cutting-edge training, tools, and professional resources to students from marginalized and underserved groups.

2023 Fall Seminars, Workshops, and Events

A full schedule of seminars and other events is planned for Fall 2023. Seminars will be held with a mix of in-person and online formats.

Donato

The Fall series will open with a presentation on September 11th with **Katharine Donato** (left), Donald G. Herzberg Professor of International Migration at Georgetown University. Other visitors include **Dennis Feehan**, Assistant Professor of Demography, UC Berkeley; **Ryan Gabriel**, Associate Professor of Sociology, Bringham Young University; **Lucie Schmidt**, Robert A Woods Professor of Economics, Smith College; **Asad L. Asad**, Assistant Professor of Sociology, Stanford University; **Sarah Halpern-Meekin**, Vaughn Bascom Professor of Children, Family & Community, University of Wisconsin; **Jose Manuel Aburto**, Brass Blacker Associate Professor of Demography, University of Oxford; **Pamela Herd**, Distinguished Professor of Public Policy, McCourt School of Public Policy, Georgetown University; **Michelle Poulin**, Executive Director Berkeley Pop Center, UC Berkeley; **Sarah K. Cowan**, Assistant Professor of Sociology, NYU; and **Leslie Root**, Postdoctoral Research Associate, University of Colorado Boulder.

Additionally, **Arianna Gard**, Assistant Professor of Developmental Psychology in the Program in Neuroscience and Cognitive Neuroscience (NACS) and Director of the Growth and Resilience across Development (GARD) Lab at the University of Maryland as well as **Nolan Pope**, Assistant Professor in the Department of Economics, will be presenting from UMD.

The student-organized Journal Club will host two meetings this fall as well.

The complete fall schedule and relevant, detailed information on topics and speakers always can be found in the Events section of the MPRC website.

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Recent Awards

Following are some of the projects awarded to MPRC Associates since November 2022.

Sangeetha Madhavan
Kinship, Nuptiality and Child Outcomes in a Low Income Urban African Context - Administrative Supplement, R01 Admin Supplement, NIH/NICHD, $100,000 4/1/2023-6/30/2025.

Michael Bourdeaux
Wildfires and Infant Health, R01 NIH/NIEHS, $2,948,021, 03/10/2023 - 12/03/2028.

Xin He and Cheryl Knott
Multi-level drivers of cancer disparities impacting African Americans, American Cancer Society, $792,000, 1/1/2023-12/31/2026.

Susan W. Parker
Impact of mandatory preprimary on learning in a developing country, NIH/NICHD, $443,720, 09/01/2023-08/31/2025.

Sacoby Wilson
Establishing the Mid-Atlantic Climate Justice Hub to build communities' capacity to address environmental and climate injustices across the region, Robert Wood Johnson Foundation, $2,199,265, 11/1/2022-10/31/2024.

Niambi Carter
Collaborative Research: The Role of Elites, Organizations, and Movements in Reshaping Politics and Policymaking, 05/22/2023 - 10/31/2025.

Michael Rendall
Maryland Population Research Center, Supplement NICHD, $435,094, 9/1/23-8/31/2024.

2023 PAA Annual Meeting

A diverse group of 27 MPRC Faculty Associates and Student Affiliates participated in the 2023 Annual Meeting of the Population Association of America in New Orleans, presenting papers and posters as well as serving as discussants and session chairs.

Sonalde Desai delivered the closing Presidential Address. **Susan Parker** was discussant for a session on Social Policy and Population Health. Presenters included **Katrina Walseman** (Quality of state-level educational contexts and trajectories of cognitive function among Black and White older adults) and **Michael Rendall** (Are Educationally Hypogamous Marriages More Likely to End in Divorce in the United States? New Estimates from 1996-2017 Data).

2023 Bianchi Scholar **Constanza Hurtado- Acuna** presented in person on women's employment and trajectories in marital regimes.

Faculty and students are preparing now for the 2024 Annual Meeting in Columbus, Ohio, next April. 2023 Bianchi Scholar, **Lindsay Mallick** is preparing to submit, "The Relationship between Postpartum Pain and Postpartum Depression: An Analysis of Listening to Mothers III Longitudinal Data" for presentation at PAA 2024.