

The Data Revolution and Population Health: AI/ML Tools, Cross-Sector Data, and Community Expertise--A Workshop

Committee

Lorna Thorpe

Chair

Lorna Thorpe, PhD, MPH, is Anita and Joseph Steckler Professor and the chair of the Department of Population Health at the NYU Grossman School of Medicine. Dr. Thorpe's research focuses on the intersection between epidemiology and policy with respect to chronic disease prevention and management and on improving modern forms of public health surveillance. She is currently co-principal investigator of the CDC-funded NYU-CUNY Prevention Research Center that evaluates community-clinical linkage interventions to improve chronic disease management in low-income and immigrant populations. Widely published on both chronic and infectious disease topics, Dr. Thorpe began her applied research career as a CDC Epidemic Intelligence Service (EIS) Officer in international tuberculosis (TB) control. She completed her PhD in epidemiology at the University of Illinois at Chicago. Dr. Thorpe also holds an MPH from University of Michigan and bachelor's degree from Johns Hopkins University.

Claire McKay Bowen

Member

Claire McKay Bowen is a senior fellow and leads the Data Governance and Privacy Team at the Urban Institute. Her research focuses on developing technical and policy solutions to safely expand access to confidential data for advancing evidence-based policymaking and ensuring everyone is responsibly represented in data. She also has an interest in improving science communication. In 2024, she became an American Statistical Association Fellow "for her significant contributions in the field of statistical data privacy, leadership activities in support of the profession, and commitment to mentoring the next generation of statisticians and data scientists." Further, she is a member of the ICPSR Governing Council and several other data governance and data privacy committees as well as an adjunct professor at Stonehill College.

Bowen holds a Honors BS in mathematics and physics from Idaho State University and an MS and PhD in statistics from the University of Notre Dame. After completing her PhD, she worked at Los Alamos National Laboratory, where she investigated cosmic ray effects on supercomputers.

Ana V. Diez Roux

Member

Ana V. Diez Roux, MD, PHD, MPH, is a Distinguished University Professor of Epidemiology and Director of the Drexel Urban Health Collaborative. Dr. Diez Roux was Dean of the Dornsife School of Public Health from 2014-2023. Originally trained as a pediatrician in her native Buenos Aires, she completed public health training at the Johns Hopkins University School of Hygiene and Public Health. Before joining Drexel University, she served on the faculties of Columbia University and the University of Michigan, where she was Chair of the Department of Epidemiology and Director of the Center for Social Epidemiology and Population Health. Dr. Diez Roux is internationally known for her research on the social determinants of population health and the study of how neighborhoods affect health. Her work on neighborhood health effects has been highly influential in the policy debate on population health and its determinants. Her research areas include social epidemiology and health disparities, environmental health effects, urban health, psychosocial factors, cardiovascular disease epidemiology, social environment-gene interactions, and the use of multilevel methods and complex systems approaches in population health. She has led large NIH and foundation funded research and training programs in the United States and in collaboration with various institutions in Latin America. She was Principal Investigator of the Wellcome Trust funded SALURBAL (Salud Urbana en América Latina) study (2017-2023). She is currently Multiple Principal Investigator for the Wellcome Trust funded SALURBAL Climate Project and PI of the NIH-funded Drexel Center on Climate Change and Urban Health (CCUH). She is also Multiple Principal Investigator of the NIH-funded Drexel FIRST initiative, a program focused on the creation of a culture of inclusive excellence via recruitment and career development support of 12 diverse early stage investigators and a set of strategies in support of institutional transformation at Drexel University. Dr. Diez Roux has served on numerous editorial boards, review panels and advisory committees including most recently the Clean Air Scientific Advisory Committee (CASAC) of the Environmental Protection Agency (as Chair), the Board of Scientific Counselors (BSC) of the National Center for Health Statistics, the Committee on Health and Wellbeing in the Changing Urban Environment of the International Council for Science (ISCUS), and CDC's Community Preventive Services Taskforce. She is currently Co-Chair of the Roundtable on Population Health Improvement of the National Academies of Science, Engineering and Medicine.

Margaret Guerin-Calvert

Member

Margaret (Meg) Guerin-Calvert is FTI Consulting's founding president of its Center for Healthcare Economics and Policy. She has over 30 years of experience as an economist in both public and private sectors, in competition and regulatory policy, mergers, intellectual property, and litigation matters including damages and class certification.

Ms. Guerin-Calvert was a founding director of Competition Policy Associates, Inc. ("Compass"), now Compass Lexecon, and has served as a Senior Consultant, Compass Lexecon and continues in this role on selected matters. She has served as economic adviser to private sector clients and government agencies in the US and internationally on many matters including mergers in many industries (e.g., transportation, coal, chemicals, healthcare, hospitality, cruise lines, airlines and banking), as well as regulatory and competition policy and market inquiries. Ms. Guerin-Calvert's experience on regulatory policy includes economic analyses of markets, price caps, capacity, and community needs assessment; she assists clients with economic and strategic assessments on transactions, realignment and economic impact. Ms. Guerin-Calvert leads FTI Consulting's initiatives on health and economic wellbeing for public- private collaboratives including projects with a Chamber-led group in Nashville and a western NY population health organization. These use advanced analytics to assess drivers of medical and productivity costs from chronic conditions, quantify their local workforce and community economic impact and aid in finding innovative strategies for improved outcomes; related projects include collaborative research with the World Economic Forum's Workplace Wellness Alliance and ongoing projects to address health disparities. Ms. Guerin-Calvert also leads the Center's comprehensive economic impact studies for health systems and others, which quantify tax and economic effects of operations, investments and policy changes.

Tyler McCormick

Member

Tyler McCormick, PhD, is professor of statistics and professor of sociology at the University of Washington. Tyler's work develops statistical models for inference and prediction in scientific settings where data are sparsely observed or measured with error. His recent projects include estimating features of social networks (e.g. the degree of clustering or how central an individual is) using data from standard surveys, inferring a likely cause of death (when deaths happen outside of hospitals) using reports from surviving caretakers, and quantifying & communicating uncertainty in predictive models for global health policymakers. He holds a PhD in Statistics (with distinction) from Columbia University and is the recipient of the NIH Director's New Innovator Award, NIH Career Development (K01) Award, Army Research Office Young Investigator Program Award, and a Google Faculty Research Award. Currently, he is a Professor of Statistics and Sociology at the University of Washington, where he is also a core faculty member in the Center for Statistics and the Social Sciences and a Senior Data Science Fellow in the eScience Institute. During the 2019-2020 academic year Tyler was on leave as a Visiting Faculty Researcher at Google People+AI Research (PAIR). Tyler is the former Editor for the Journal of Computational and Graphical Statistics (JCGS) and was selected as a Fellow of the American Statistical Association in 2023. More information on Tyler's work is here: <https://thmccormick.github.io>.

Chris Pernell

Member

Chris T. Pernell, MD, MPH, is a dynamic physician leader and social change agent. In her practice, she focuses on health justice, community-based advocacy, and population-wide health promotion and disease prevention. A celebrated visionary and apostle of public health, Dr. Pernell serves as the director of the NAACP Center for Health Equity. The Center is charged with driving equitable health outcomes and transforming healthcare systems while valuing the whole person. Prior to joining the NAACP, she launched The Esther Group, a public health consulting and health equity strategy firm. Previously, she served as the first chief strategic integration and health equity officer at University Hospital in Newark, New Jersey. Prior to joining University Hospital, she led the 1199SEIU/League Labor Management Initiatives (LMI) Workplace and Community Health Program. Dr. Pernell is a fellow and regent-at-large for the American College of Preventive Medicine. She holds an appointment as a clinical assistant professor at the Rutgers New Jersey Medical School. Dr. Pernell graduated cum laude from Princeton University before attending Duke University School of Medicine in 2003. She received her M.P.H. from the Columbia Mailman School of Public Health in 2011 and completed the Johns Hopkins General Preventive Medicine Residency.

Kayte Spector-Bagdady

Member

Professor Kayte Spector-Bagdady, JD, MBe, is the Wantz Professor of Bioethics at the University of Michigan Medical School. She is also the Director of Michigan Bioethics, which won the 2022 American Society for Bioethics & Humanities (ASBH) Cornerstone Award, and an Associate Professor of Obstetrics & Gynecology. The goal of her work is improving the governance of secondary research with health data and building machine learning/artificial intelligence systems to increase the accessibility of data and generalizability of advances. She is an Associate Editor of the American Journal of Bioethics and is a fellow of The Hastings Center for Bioethics and the Greenwall Foundation and is an NAM Emerging Leaders Forum participant. She was also a member of the National Academies' newborn screening committee, Chair of the American Heart Association's data sharing committee, a member of the ASBH Board of Directors, and Associate Director for President Obama's Presidential Commission for the Study of Bioethical Issues. She received her JD and Masters of Bioethics from the University of Pennsylvania.

Anne Zink

Member

Anne Zink, M.D. is a lecturer and Senior Fellow in Health Policy at Yale School of Public Health. Dr. Zink is a practicing Emergency Medicine physician in Palmer, Alaska, and a public health leader dedicated to developing innovative health strategies, implementing data-driven solutions, and advocating for health improvements at local, tribal, territorial, state, and national levels. Dr. Zink believes that health is deeply personal—and that people, when empowered with tools, transparent information, and resources, can make the best decisions for their health. Her work focuses on building systems that provide individuals with the support they need to navigate complex systems and make informed choices. She is committed to collaborative, data-driven approaches that integrate public health, healthcare, and community partners to improve outcomes. Grounded in transparency, responsiveness, and prevention, Dr. Zink strives to create resilient systems that support individual well-being and strengthen community health. She currently serves as a Senior Fellow at the Yale School of Public Health, where she focuses on health data visualization, teaching, and mentoring to prepare the next generation of public health leaders. Dr. Zink is also a Public Health Senior Advisor to The Pew Charitable Trusts and collaborates with various agencies, including serving on the steering committees for the Common Health Coalition and the Biosecurity Game Changer Coalition. From 2018 to 2024, she served as the Chief Medical Officer for the State of Alaska, leading the state through the COVID-19 pandemic and numerous other initiatives. Her work included reorganizing the Department of Health and Social Services, building the Healthy Alaskans initiative, launching the state's Complex Care System to streamline government services for patients, and developing programs to address pressing health issues, from tuberculosis to youth mental health. Dr. Zink is the immediate past president of the Association of State and Territorial Health Officials (ASTHO), where she represented public health leaders from all 50 states and U.S. territories, fostering collaboration and advocating for policy change during a time of rapid transformation in public health. Dr. Zink holds a B.A. from Bryn Mawr College and an M.D. from Stanford University. She completed her emergency medicine residency at the University of Utah.

Alina B. Baci

Staff Officer

Alina Baci is a Senior Program Officer in the Center for Health, People, and Places at the National Academies. She has directed the activities of the Roundtable on Population Health Improvement since its launch in 2013. After joining the National Academies in 2001, Dr. Baci staffed or directed several consensus studies, including those that produced the reports *Blueprint for a National Prevention Infrastructure for Mental, Emotional, and Behavioral Disorders* (2025), *Leading Health Indicators 2030: Advancing Health, Equity, and Well-Being* (2020), and the *For the Public's Health* series of reports on measurement, law and policy, and funding. She previously worked in local public health at the Orange County (California) health department. Alina earned her MPH in International Health from Loma Linda University in 1996 and her PhD in human sciences ("an interdisciplinary program in language, culture, and society") from George Washington University in 2010.