

Indiana CTSI Notre Dame Retreat

"SOCIAL AND STRUCTURAL DETERMINANTS OF HEALTH"



UNIVERSITY OF
NOTRE DAME

RESEARCH



TODAY'S SPEAKERS



Robert J. Bernhard, PhD,

Vice President for Research, Professor of Aerospace and Mechanical Engineering, University of Notre Dame

Bob Bernhard was appointed Vice President for Research in 2007. In this role, he leads the University's research infrastructure and support programs for all disciplines of research and scholarship. He is also responsible for the University's programs and stewardship of its strategic research initiatives. In addition to his role as Vice President for Research, Bob is a professor of aerospace and mechanical engineering and is one of the nation's leading experts in noise control engineering. He has directed the research of more than 50 graduate students, co-authored more than 170 papers and conference publications, and holds two patents. Before joining Notre Dame Research, Bob served as an Associate Vice President for Research at Purdue University. Bob is a graduate of Iowa State University and completed his master's degree in mechanical engineering from the University of Maryland. He returned to his alma mater, Iowa State University, to complete his PhD in engineering mechanics.



Darrell Hudson, PhD,

Associate Professor, Brown School of Social Work, Washington University, St. Louis and Associate Professor, Department of Psychiatry Washington University School of Medicine

Darrell Hudson is an associate professor at the Brown School at Washington University in St. Louis. Hudson holds courtesy appointments with the Department of Psychiatry and the Department of Sociology and is a faculty scholar with the Institute for Public Health. His career is dedicated to the elimination of racial/ethnic inequities in health. His research agenda centers on how social determinants of health, particularly racism, affect multiple health outcomes. His published research includes studies that have examined racial/ethnic differences in depression, including the effects of socioeconomic position, racial discrimination, and coping behaviors on depression. He completed his doctoral studies at the University of Michigan School of Public Health, where he also received his MPH. He earned a BA in psychology from Morehouse College. Prior to his faculty appointment, he completed a postdoctoral fellowship with the Kellogg Health Scholars Program at the University of California at the San Francisco and Berkeley campuses, where he conducted research and gained additional training in social epidemiology.



Sharon Moe, MD, FACN,

Co-Director, Indiana CTSI

Sharon M. Moe is the Associate Dean for Clinical and Translational Medicine and the Co-Director for the Indiana Clinical Translational Sciences Institute. She is also Director of the Division of Nephrology and Stuart A. Kleit Professor of Medicine for the Indiana University School of Medicine. She has been a faculty member at Indiana University since 1992 and in 2019 was named Distinguished Professor at IU. Moe is the principal investigator for several ongoing basic and clinical research studies in the field of Chronic Kidney Disease-Mineral Bone Disorder (CKD-MBD), including studies on vascular calcification, mineral metabolism, and bone metabolism in kidney disease. She has authored over 200 scientific manuscripts, teaching manuscripts and textbook chapters, and has mentored over 25 pre/postdocs and clinical fellows. She served on the National Kidney Foundation's Bone and Mineral metabolism K/DOQI clinical practice guidelines in 2003, was co-chair of the international KDIGO Mineral and Bone guidelines released in 2009, and a member of the 2017 update committee.

TODAY'S SPEAKERS (cont'd)



Sarah Wiehe, MD, MPH,

Co-Director, Indiana CTSI

Sarah Wiehe is Co-Director of the Indiana CTSI and its Community Health Partnerships Program, Patient Engagement Core, and the Monon Collaborative Initiative. She is a pediatrician and public health researcher. She is an investigator at the Regenstrief Institute and serves as Division Chief of Children's Health Services Research in Pediatrics and Associate Dean of Community and Translational Research at Indiana University School of Medicine as well as adjunct faculty of Geography at the School of Liberal Arts and Epidemiology at the Richard M. Fairbanks School of Public Health at IUPUI. Her research focuses on health equity issues among children, adolescents, and young adults. Specifically, she engages community stakeholders and leverages existing data to identify mechanisms and opportunities for intervention in order to improve health among vulnerable populations. She partners with patients and community stakeholders to strengthen the relevance, impact, and sustainability of her work.



Nitesh Chawla, PhD,

Frank M. Freimann Professor of Computer Science and Engineering, Director of the Lucy Family Institute for Data and Society, University of Notre Dame

Nitesh Chawla is the Frank M. Freimann Professor of Computer Science and Engineering and Founding Director of Lucy Family Institute for Data and Society at the University of Notre Dame. His research is focused on machine learning, AI and network science fundamentals, and interdisciplinary applications. He is passionate about interdisciplinary collaborations to address the grand challenge problems for societal impact. His papers have received several best paper nominations and awards. He is also the recipient of several awards and honors including the Outstanding Dissertation Award, NIPS Classification Challenge Award, IEEE CIS Outstanding Early Career Award, the IBM Watson Faculty Award, the IBM Big Data, and Analytics Faculty Award, the National Academy of Engineering New Faculty Fellowship, and 1st Source Bank Technology Commercialization Award. In recognition of the societal and impact of his research, he was recognized with the Rodney Ganey Award and Michiana 40 Under 40. He is a co-founder of Aanalytics, a data science software and solutions company.



Heather Eicher-Miller, PhD,

Associate Professor, Department of Nutrition Science and Director, Indiana's Emergency Food Resource Network, Purdue University

Heather Eicher-Miller is an associate professor in the Department of Nutrition Science at Purdue University, West Lafayette, Indiana. Her research is focused on food insecurity which affects 11% of US households and creates uncertainty regarding the availability of nutritionally adequate and safe foods. Her work has documented immediate and chronic adverse dietary and health outcomes associated with food insecurity among diverse populations. Her efforts to evaluate and create evidence-based interventions, programs, and policies have reduced food insecurity and improved access to resources that enhance health. She has also developed novel analytical and methodological techniques, including temporal dietary patterning, to more effectively quantify and evaluate the relationship between food insecurity, diet, and health.

TODAY'S SPEAKERS (cont'd)



Marie Lynn Miranda, PhD,

Charles and Jill Fischer Provost, Professor of Applied and Computational Mathematics and Statistics, Director of the Children's Environmental Health Initiative, University of Notre Dame

A distinguished scholar in the field of children's environmental health, Miranda is especially well-known for her research on childhood lead exposure. She served as provost at Rice University from 2015-19 and as dean of the University of Michigan's School of Natural Resources and Environment for the four years prior to that. In addition to her responsibilities as provost, Miranda is a professor of applied and computational mathematics and statistics at Notre Dame, maintaining an active research portfolio. She is a leader in the rapidly evolving field of geospatial health informatics and is the founding director of the Children's Environmental Health Initiative, a research, education, and outreach program committed to fostering environments where all people can prosper. Her interest in the joint effects of social and environmental exposures has led her to study the impact of racial residential segregation on health.



Joshua R. Vest, PhD, MPH,

Professor and Vice-Chair of Health Policy & Management, Indiana University Richard M. Fairbanks School of Public Health at IUPUI and Research Scientist, Clem McDonald Center for Biomedical Informatics, Regenstrief Institute

Joshua Vest is a health services researcher with an interest in the organizational determinants and effectiveness of health information technology and systems. Most of his work is focused on the adoption, utilization, impact, and policy issues of technologies that facilitate the sharing of patient information between different organizations. As a former local public health practitioner, Joshua has a particular interest in effective public health information systems.



Bill Evans, PhD,

Keough-Hesburgh Professor and Co-Founder of the Wilson Sheehan Lab for Economic Opportunities, University of Notre Dame

As a co-founder of the Wilson Sheehan Lab for Economic Opportunities (LEO), Bill's day-to-day work is focused on finding new and exciting research opportunities with LEO's partners. Before founding LEO, he was appointed as the Keough-Hesburgh Professor of Economics at the University of Notre Dame in 2007 and served as an editor of the Journal of Human Resources from 2007-2012. Bill held a six-year term as the Chair of the Economics Department at Notre Dame (2014-2020) and he is currently a research associate at the National Bureau of Economic Research. He also serves as an affiliated professor of the Abdul Latif Jameel Poverty Action Lab. He received his BA in economics and math from Wake Forest University and his MA and PhD in economics from Duke University. Bill specializes in health economics research, the economics of education, and public finance.



Bernice Pescosolido, PhD,

Distinguished Professor, Sociology, Indiana University-Bloomington

Bernice Pescosolido is Distinguished Professor of Sociology, Founding Director of the Indiana Consortium for Mental Health Services Research, and an elected member of the National Academy of Medicine. Her research focuses on four areas - stigma, health care use, suicide, and social networks - primarily looking at mental illness and substance abuse and the role that social and organizational networks play in people's responses to problems.

TODAY'S SPEAKERS (cont'd)



Dan Kelly, JD,

Professor of Law, Director, Fitzgerald Institute for Real Estate, University of Notre Dame

Dan Kelly teaches and writes in the areas of property law, real estate, remedies, and wills, trusts, and estates. Kelly has taught as a professor at Notre Dame since 2009 and he has been a visiting professor of law at the University of Chicago Law School and the Louis D. Brandeis Visiting Professor of Law at Harvard Law School. He serves as the director of the University of Notre Dame's Fitzgerald Institute for Real Estate and director of the Law School's Program on Law & Economics. His research focuses on the economic analysis of property rights, including the acquisition and assembly of land for development, the division and use of property through contracts, leases, and trusts, and the transfer of property at death. His research on eminent domain and land assembly has appeared in the Cornell Law Review, Harvard Law Review Forum, Supreme Court Economic Review, and Research Handbook on the Economic Analysis of Property Law. Before joining Notre Dame, Kelly was a judicial clerk on the US Court of Appeals for the Second Circuit and an attorney at Cravath, Swaine & Moore in New York City. He is a graduate of Harvard Law School and the University of Notre Dame.



Kristin Valentino, PhD,

Director, William J. Shaw Center for Children and Families and William J. Shaw Center for Children and Families Professor of Psychology, University of Notre Dame

Valentino's research focuses on the transactional nature through which children's interactions with their family, community, and culture can shape the course of development. Specifically, she is interested in how the integration of biological, psychological, and environmental factors can inform our understanding of the development of maltreated children. Her research addresses how maltreatment affects child development, with a focus on the caregiving behaviors that may promote risk and/or resilience among maltreating families, and she evaluates how interventions may be designed to improve caregiving and, in turn, improve developmental outcomes for maltreated children. Moreover, this research capitalizes on a unique opportunity to test experimentally the role of caregiving support in averting the long-term negative behavioral and physical health sequelae associated with early adversity.



Heidi Beidinger-Burnett, PhD, MPH,

President, St. Joseph County Board of Health and Notre Dame liaison to the Indiana CTSI Community Health Partnerships

Heidi Beidinger-Burnett is an associate professor of the practice at the Eck Institute for Global Health at the University of Notre Dame and the director of the Master of Science in Global Health Program. Her research is focused on public health in particular lead poisoning prevention. Her research has found that over 75% of pre-1950 homes screened for lead in St. Joseph County were found to have at least one lead hazard. Lead is a toxic heavy metal that is devastating to nearly every organ and system in the human body but especially devastating to young children. Her team has conducted research that led to the development of a lead screening kit. The kit is a low-cost, user-friendly tool to help families identify lead hazards in their home environment. The kit has been validated and has shown to be 96% accurate in identifying lead. With newly acquired funding, the kit will be scaled up throughout St. Joseph, Marian, Vigo, and Vermillion Counties in Indiana.

TODAY'S SPEAKERS (cont'd)



Mark Fox, MD, PhD, MPH,

Deputy Health Officer, St. Joseph County Health Department and Associate Dean, Indiana University School of Medicine South Bend

Mark Fox is a physician, ethicist, and public health professional. His MD/PhD was non-traditional, in religion, ethics, and society. He had the opportunity to serve as an ethics consultant for the Vanderbilt Transplant Center. His dissertation and academic work have focused on ethical and policy issues in organ donation and transplantation. On the other hand, his clinical work as a Med/Peds physician and preventive cardiologist has focused on care for vulnerable and underserved populations, from a cardiovascular risk reduction program for uninsured adults to a street outreach clinic for homeless youth. He was also able to complete a MPH, which provides an additional skill set to address social determinants of health and health disparities during his fellowship. Fox is a co-director for the South Bend campus Scholarly Concentration in Ethics, Equity, and Justice.



Breanca Merritt, PhD,

Chief Health Equity and ADA Officer, Indiana Family and Social Services Administration

Breanca Merritt is the Indiana Family and Social Services Administration's (FSSA) first chief health equity and ADA officer. In her role, she provides leadership in the evaluation of policy decisions that affect race equity, building metrics for agency accountability, ensuring agency adherence to the Americans with Disabilities Act and serving at the executive level working to build a culture of equity across the agency. Prior to joining FSSA, Merritt served as the founding director of the Center for Research on Inclusion and Social Policy at Indiana University-Purdue University Indianapolis (IUPUI), as well as a clinical assistant professor in the IUPUI O'Neill School of Public and Environmental Affairs. She currently serves as an adjunct faculty member and community scholar in IUPUI's Africana Studies program. She earned a BA degree from the University of Oklahoma's Gaylord College of Journalism, a MA in political science from Texas A&M University. She then earned a PhD in health promotion sciences from the University of Oklahoma's Hudson College of Public Health with a specialty in health disparities.



Waldo Mikels-Carrasco, MA,

Director of Community and Governmental Solutions, Michiana Health Information Network/Indiana Health Information Exchange

Waldo serves as the director of Community and Governmental Solutions at the Indiana Health Information Exchange (IHIE). He has worked as a researcher, educator, and consultant for private and public-sector health initiatives. Prior to joining IHIE, Waldo was the senior director for regional population health research and policy at the Michiana Health Information Network in South Bend, Indiana. In addition, he has served as the Community Health Research Program Manager at the Center for Network and Data Science at Notre Dame, which is now endowed as the Lucy Family Institute for Data and Society, and the regional liaison for the Indiana CTSI's Community Health Engagement Program in Northern Indiana. As a principal investigator, he has led multiple research projects addressing health disparities, infant mortality, mental health, and childhood obesity. He received his BA in philosophy from Indiana University and MA in applied medical anthropology from the University of North Texas.



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