Institute on Systems Science and Health 2012

June 10-15, 2012 | St. Louis, MO

2012 | *Participant Directory*

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agent-based modeling track

Carolina Barbosa, Ph.D
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Carolina has expertise in the economic evaluation of health care interventions. As part of her doctoral studies at the University of York, UK, she developed a Markov model for the economic evaluation of alcohol treatments. At RTI she works as a health economist and is involved in several projects including a national cross-site evaluation funded by SAMHSA, the cost-effectiveness analysis of a NICHD-funded workplace intervention, the cost effectiveness analysis of a perinatal Hepatitis B vaccine funded by CDC and the comparative effectiveness of alcohol treatments funded by NIAAA. Carolina is a partner of the Alcohol Measures for Public Health Research Alliance, a European project financed by the European Commission, where she helps addressing the public health impact of individually directed alcohol interventions in European countries. Carolina has published her research findings in peer-reviewed journals, including Alcohol and Alcoholism, International Journal of Methods in Psychiatric Research, and Value in Health.

Jonathan Campbell, Ph.D
University of Colorado
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Dr Campbell is a tenure-track Assistant Professor in the University of Colorado (CU) Skaggs School of Pharmacy and Pharmaceutical Sciences and a member in the Center for Pharmaceutical Outcomes Research. The theme of his research is to advance the methods and application of cost-effectiveness evidence to improve decision making predominately at the policy (e.g. payer) level. Jon has led various comparative- and cost-effectiveness research projects including the comparative effectiveness of disease modifying therapies in multiple sclerosis, the comparative effectiveness of fluticasone propionate/salmeterol combination therapy (asthma), and the cost-effectiveness of omalizumab (asthma). Jon is an Agency for Healthcare Research and Quality K12 comparative effectiveness research scholar and is generating pilot data in advancing cost-effectiveness methods to position himself toward career independence. Using the training received through ISSH, Jon is interested in advancing multiple sclerosis simulation modeling for comparative- and cost-effectiveness research.

Stephanie Choi, MPH, Ph.D (Student)
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Stephanie is a PhD Student at University of Toronto. She has a multi-disciplinary education background in epidemiology, biostatistics, computer science, applied mathematics, and business as well as practical work experience in research and information technology systems. To contribute to public health, she has conducted large-scale population-based biomedical and health outcome research in injury epidemiology. To contribute to information technology, she has worked on various components of commercial information technology systems including data warehouse, software development, and web development in commercial and government settings. Currently, Stephanie is passionate to become a systems science researcher who can effectively apply and advance the agent-based modeling framework in understanding the dynamic of behaviour and social process between mental disorders and HIV infections among injection drug users as well as utilizing system dynamic models in examining different mental health care services delivery methods to inform policy decision making for the unmet needs for HIV-infected population.

Erin Dunn, Sc.D
Massachusetts General Hospital
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Erin C. Dunn is a social and psychiatric epidemiologist by training, who graduated from the Harvard School of Public Health. Her research interests are centered on the independent and joint effects of genetic and environmental determinants (e.g. family, neighborhood, school) on depression in women, children, and adolescents. Dr. Dunn possess over 10 years of experience in epidemiological, mental health services, and intervention research, a strong set of skills in both quantitative and qualitative methods, and formal training in public health and both early childhood and elementary education. Her most recent work is examining a developmentally informed model of gene-environment interplay (GxE), whereby the role of exposure to adversity is hypothesized to exert a strong effect during sensitive periods in development.

agent-based modeling track

Melissa Elafros, MD/PhD Candidate
Michigan State University
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Melissa Elafros, is a Fellow with the International Neurologic & Psychiatric Epidemiology Program (INPEP) and MD/PhD candidate in the Department of Epidemiology and Biostatistics at Michigan State University. In her work as an INPEP Fellow, she trained Zambia research staff to conduct peer support groups for people with epilepsy and provided research ethics training to local health care personnel. She is also assisting the neurology expert group for the 2010 World Health Organization's Global Burden of Disease Study. Melissa's doctoral dissertation research, funded in part by the AMA Foundation, focuses on seizure identification and treatment in HIV-positive individuals in Lusaka, Zambia. Prior to joining INPEP, she completed a Master of Arts in Bioethics, Humanities & Society during which she conducted focus groups to assess the health concerns and health care utilization of Michigan's Latino population. Melissa's goal is conduct health services research and serve as a physician in developing countries.

James Fackler, MD
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Jim Fackler, M.D. is interested in operations research within Pediatric Critical Care focused on task analyses, modeling, and redistribution of all tasks to the right provider (regardless of current historical, cultural and/or regulatory constraints). He was on the faculty of the Children's Hospital Boston for about 10 years before returning to Hopkins. Academic interests also include data integration. He is a founding Board Member of the Virtual PICU. With medical device and physiological data he is mentoring Masters and PhD students in data visualization, pattern recognition and guideline adherence. Dr. Fackler worked for the Cerner Corporation from 2002-2006. He was responsible for the development and deployment of the critical care solution suite. He co-founded Oak Clinical Systems; a start-up focused on a personally controlled health record with a problem-based organization. He also has a part-time executive role for Cardiopulmonary Corporation; a data integration, analytical and alarm management company.

Elizabeth Fuentes, MPH
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Liza is a doctoral student at the CUNY Graduate Center and a pre-doctoral fellow at the CUNY Institute for Demographic Research. She completed her MPH at Mailman School of Public Health. Her research interests are in reproductive health policy and immigrant health. She has used both qualitative and quantitative methods to understand the policy determinants of immigrant women's reproductive health outcomes, with a focus on theorizing and measuring the relative influence of policy-level, community-level, and individual-level causes. Her dissertation aims to evaluate the effects of laws restricting the use and delivery of abortion services on reproductive health and socioeconomic disparities.

Emily Ihara, Ph.D, MSW
George Mason University
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Emily is an Assistant Professor of Social Work at George Mason University and her research focuses on the social determinants of health inequities across the life course, particularly for older adults, racial and ethnic minorities, immigrants, and other vulnerable populations. An overarching goal of her research is to inform the development of contextually-relevant policies and services for non-dominant populations. She uses the social determinants of health framework in her work, and is eager to integrate agent-based modeling into this framework because it has excellent potential to forecast multiple trajectories that may lead to health inequities and test different policy levers that could be altered to create different possible outcomes. Emily earned her doctorate and master's degree in social policy from the Heller School for Social Policy and Management at Brandeis University, her master's degree in social welfare from UCLA, and her bachelor's degree in sociology from UC Berkeley.

agent-based modeling track

Emily Jungheim, MD, MSCI
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Emily is an assistant professor in the Department of Obstetrics and Gynecology at Washington University in St. Louis. In addition to treating couples with infertility and women with reproductive endocrinopathies, Emily is active in clinical research focused on reproductive health outcomes. Her research is supported through the NIH-sponsored Women's Reproductive Health Research Scholar Program. Emily completed medical school at Loyola University in Chicago. She did a residency in Obstetrics and Gynecology at Duke University in Durham, North Carolina followed by specialized fellowship training in Reproductive Endocrinology and Infertility at Washington University.

Jason Kessler, MD, MPH
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Jason is an infectious diseases physician with a background in the management of HIV disease in the developing and developed world. He is currently an instructor in the Division of General Internal Medicine within the Section of Value and Effectiveness at NYU School of Medicine (SOLVE). Jason is primarily interested in HIV disease modeling, decision analysis and effectiveness research and am currently focused on evaluating the impact and costs of interventions aimed at preventing HIV infections in high-risk populations including drug and alcohol users especially in highly affected urban areas such as New York City.

Daniel Kim, MD, DrPH
Rand
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As an Associate Scientist in the Behavioral and Social Sciences Department at the RAND Corporation, Daniel conducts research on the social determinants of health. Currently, Daniel is the recipient of a career development Pathway to Independence Award through the National Heart, Lung, and Blood Institute of the National Institutes of Health. His research focuses on estimating the impacts of social determinants at neighborhood and other spatial levels on chronic disease and general health outcomes. Daniel has published his work in a variety of international public health and clinical journals, and co-edited the textbook Social Capital and Health (Springer Press, 2007). He completed a Doctor of Public Health degree in social epidemiology at Harvard University, and a Doctor of Medicine degree and Preventive Medicine Residency Program at the University of Toronto.

Marlon Mundt, Ph.D
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Dr. Mundt's research interests, goals and career path can be traced to his first exposure to alcohol research through Project TrEAT (Trial for Early Alcohol Treatment, PI Michael Fleming). In collaboration with Drs. Michael Fleming and Michael French, Marlon conducted an analysis of the Project TrEAT data, which resulted in his first alcohol-related publication. The study showed that brief physician alcohol intervention can result in positive net benefits for patients, the health care system, and society. Since then, alcohol research has become his focus for investigation of disease prevention and health promotion efforts.

Marlon completed his Ph.D. from the University of Wisconsin in Population Health. In 2009, he was awarded a Mentored Research Scientist Development Award (MRSDA) K01 grant. His goal is to investigate adolescent alcohol use and its economic implications on future labor market outcomes, medical care utilization and criminal activity from a social networks perspective. He is currently working on refining available econometric methodology by incorporating social network parameters into models on the impact of adolescent drinking.

agent-based modeling track

Johnie Rose, MD, Ph.D
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Dr. Rose is a new faculty member in the Department of Family Medicine and Community Health at Case Western Reserve University School of Medicine. He is a physician-researcher specializing in Preventive Medicine and Public Health and serves as Associate Program Director for his institution's Preventive Medicine residency program. He holds a PhD in Epidemiology and Biostatistics. Past work has included computational modeling of rotavirus vaccination programs in the developing world. Current modeling projects include Markov modeling of colorectal cancer relapse as well as participatory agent-based modeling of health care seeking and delivery in communities. He recently first-authored a book chapter on the approach to the latter in the forthcoming Handbook on Systems and Complexity in Health sponsored by NIH's Network on Inequalities, Complexity, and Health (NICH).

Ashley Sanders-Jackson, Ph.D
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As a first year postdoctoral fellow at UCSF, Ashley is able to apply her training in communication from Indiana University and the University of Pennsylvania Annenberg School of Communication to real-world health-related problems. She has methodological training in a variety of statistical methods including social network analysis, psychophysiological and reaction time research and a broad theoretical background. Though Ashley's dissertation focused on narrative structural features of messages, her current work focuses on information contagion in a variety of contexts. She is completing a study that focuses on diffusion of tobacco-related health-warning labels internationally, a study on message attributes that increase the likelihood of information diffusion on Twitter and is also working on a project looking at the effect of norms and environmental information on adolescent tobacco use in a longitudinal multilevel sample.

Kurt Stange, MD, Ph.D
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Kurt C. Stange, MD, PhD is a practicing family and public health physician and epidemiologist. At Case Western Reserve University he is the Gertrude Donnelly Hess, MD Professor of Oncology Research, and Professor of Family Medicine & Community Health, Epidemiology & Biostatistics, Oncology and Sociology. Kurt is an American Cancer Society Clinical Research Professor. He serves as editor for the Annals of Family Medicine (www.AnnFamMed.org), and is working on Promoting Health Across Boundaries (www.PHAB.us). Currently, he is working with the Implementation Science Team at the National Cancer Institute, under the Intergovernmental Personnel Act (IPA). As a member of the Network on Inequalities, Complexity & Health he is working with colleagues to develop a model of the paradox of primary care (www.annfammed.org/content/7/4/293.full). He is a Past-President of the North American Primary Care Research Group, and is a member of the Institute of Medicine of the National Academy of Sciences.

Scott Weaver, Ph.D
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As the Director of Data and Research Services for the NIMHD funded Center of Excellence in Health Disparities Research within the Institute of Public Health at Georgia State University, Scott provides leadership and coordination of the Center's research activities and the statistical and technological expertise to further the Center's research and training efforts. Drawing from his background in behavioral science, prevention science, and quantitative methodology, his research focuses on the health of ethnic minority and immigrant populations, with an emphasis on elucidating the ecological determinants of health disparities. Recently, Scott's research has begun to explore the potential of systems thinking and systems science methodologies for understanding and, ultimately, reducing health disparities.

agent-based modeling track

FACULTY

Ross Hammond, Ph.D, Track Lead

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Ross A. Hammond is Senior Fellow in Economics Studies at The Brookings Institution, where he is also Director of the Center on Social Dynamics and Policy. His primary area of expertise is modeling complex social dynamics in economic, political, and public health systems using mathematical and agent-based computational methods. His current research topics include: obesity, behavioral epidemiology, corruption, ethnocentrism, segregation, trust, decision-making, and ecosystem dynamics. Hammond received his B.A. from Williams College and his Ph.D. from University of Michigan. He has authored numerous scientific articles, and his work has been featured in New Scientist, Salon, The Atlantic Monthly, and major news media. Hammond currently serves on the editorial board of the journal Childhood Obesity, on the steering committee for the NIH Comparative Modeling Network of the National Collaborative on Childhood Obesity Research, and as a member of the NIH MIDAS (Models of Infectious Disease Agent Study) and NICH (Network on Inequality, Complexity, and Health) networks. He has previously been the Okun-Model Fellow in Economics, an NSF Fellow in the Center for the Study of Complex Systems at University of Michigan, a visiting scholar at The Santa Fe Institute, and a Consultant at PricewaterhouseCoopers LLP.

FACULTY

Natalie McGarry, Track Assist

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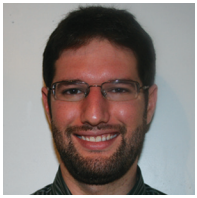
Natalie McGarry is currently a research assistant at the Brookings Institution in Economic Studies in Washington, D.C. Prior to that, she was in Egypt as part of the Inktank media monitoring and writing staff. Her main research interests include monetary and fiscal policy, agent-based modelings, and development economics.



FACULTY

Joseph Ornstein, BA, Track Assist
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As a senior research assistant at the Brookings Institution's Center on Social Dynamics and Policy, Joe is well-versed in the science of complex systems as applied to analysis of public policy. He has extensive expertise conceptualizing and designing agent-based models in public health, political science, and economics. During ISSH, he will serve as Track Assistant to Dr. Ross Hammond for the Agent-Based Modeling Track.

FACULTY

Elizabeth Bruch, Ph.D, MS, Guest Lecturer
University of Michigan
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Elizabeth earned her PhD from UCLA in 2006, and was a Robert Wood Johnson Health Policy Scholar from 2006-08. Her work spans a broad array of population phenomena in which the actions of individuals and other units (such as families, couples or neighborhoods) are dynamically interdependent. Most of her work blends statistical and agent-based methods to examine the relationship between individuals' decisions about where to live and patterns of residential segregation. Her article on racial tolerance and race-ethnic segregation, Neighborhood Choice and Neighborhood Change, won the 2005-6 Gould Prize, the James S. Coleman Best Article award from the Mathematical Sociology section of the ASA, and the Robert Park Best Article award from the Community and Urban Sociology section of the ASA. She is currently working on problems related to income inequality and income segregation, statistical modeling of residential choice, and the role of scale (population and group size) in social dynamics. She recently started a new project on mate preferences and marriage market dynamics.

agent-based modeling track

FACULTY

David Shoham, Ph.D, MSPH, Guest Lecturer
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Dr. Shoham is a social epidemiologist who joined Loyola University Chicago in 2007. He holds a PhD in epidemiology from UNC-Chapel Hill, where he also completed a postdoctoral fellowship in cardiovascular epidemiology. Dr. Shoham is especially interested in the social context in which diseases and risk factors develop, with an emphasis on socioeconomic position, geographic (neighborhood), and peer (social network) influences on health. He applies this work to nutritional risk factors, obesity, cardiovascular, and kidney diseases.

Dr. Shoham is co-Principle Investigator (along with Dr. Amy Luke) on the collaborative U01 entitled "MOTS: Modeling Obesity through Simulation." This grant, funded by NICHD, applies social network analysis and agent-based modeling to help better understand the epidemic of childhood obesity.

FACULTY

Stephen Eubank, BA, Ph.D, Guest Lecturer
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Stephen Eubank received his Ph.D. in theoretical physics from the University of Texas. He has worked in the fields of turbulence (at La Jolla Institute); nonlinear dynamics and chaos (at Los Alamos National Laboratory); financial market modeling (as co-founder of Prediction Company); ecological time series analysis (at Biosphere 2); and natural language processing (at Advanced Telecommunication Research in Kyoto, Japan). Stephen played a leading role at Los Alamos in developing traffic simulations for the Transportation Analysis and Simulation System (TRANSIMS) and he led the Epidemiology Simulation System (EpiSims) project. These Agent-Based Models simulate every individual in a large region with the goal of understanding the complex behavior of systems with both physical and social components. As Deputy Director of the Network Dynamics and Simulation Sciences Laboratory at the Virginia Bioinformatics Institute, he continues to study the dynamics of socio-technical systems and the structure of social networks.

Karen Albright, Ph.D
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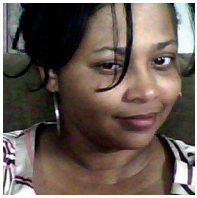
Karen is an Assistant Professor in the Department of Community & Behavioral Health at the University of Colorado, Anschutz Medical Campus. She is also the Director of Qualitative Research in the Center for Research in Implementation Science and Prevention, an AHRQ-funded Center of Excellence; the Colorado Health Outcomes Program, a center within the University of Colorado School of Medicine; and the Children's Outcomes Research Program, within The Children's Hospital Research Institute. She holds a PhD in Sociology from New York University and received postdoctoral training in health research as a Robert Wood Johnson Foundation Scholar in Health Policy at the University of California, Berkeley, and a NIMH Fellow at the University of California, Los Angeles. Her research interests focus on health behaviors among socioeconomically disadvantaged populations. She is currently investigating how distrust of pharmaceutical medicine and the American health care system affects health behaviors among individuals of low socioeconomic status.



Michele Battle-Fisher, MPH, MA (Doctoral Student)
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Michele is an instructor of Public Health at Wright State University's Boonshoft School of Medicine (OH) and a doctoral student in Health Promotion and Health Behavior at The Ohio State University College of Public Health. Her research addresses how systems science might be used to investigate health disparities. She presently utilizes social network analysis in her research, and is intent on exploring using systems dynamics. Michele intends to expand her work to explore the impact of social systems on quality of patients in all phases of Chronic Kidney Disease. She was a Visiting Scholar at the Hastings Center in August 2010 and a Graduate Scholar at the 2011 Aging and Society Conference (UC Berkeley). Michele will be presenting an original complex systems model, The Concentric Model of Health-Bound Networks, which explores the nested dynamics of chronically ill patients' social support at the 2012 Aging & Society Conference in Vancouver, CA.

network analysis track

Crystal Wiley Cené, MD, MPH
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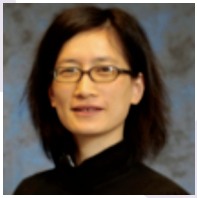
Dr. Crystal Cené is a physician-researcher at the assistant professor level in the Division of General Internal Medicine at the University of North Carolina at Chapel Hill School of Medicine. She completed her Internal Medicine internship and residency at Yale University and a 3-year General Internal Medicine Fellowship at Johns Hopkins University. While at Hopkins she also received a Master's Degree in Public Health from the Bloomberg School of Public Health. Dr. Cené's broad research interests are in health disparities, cardiovascular risk and disease and using community-academic partnerships to understand and address health disparities. Specifically, she is interested in how social contextual factors (e.g. social networks, social support, social capital) affect health behaviors, outcomes and delivery of care for adults complex illnesses, particularly Heart Failure. Dr. Cené is currently funded through a K23 Patient-Oriented Mentored Career Development Award through NIH/NHLBI which examines how family member accompaniment to medical visits influences the quality and content of the visit for patients with Heart Failure.



Cynthia Chen, Ph.D
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Cynthia Chen specializes in understanding and modeling how people move in time and space. In particular, this involves identifying behavioral regularity in people's space-time movements, detecting abnormality, and understanding factors that influence people's activity and travel behaviors and their underlying processes. She has published more than 35 papers in referred leading transportation planning and public health journals including Transportation Research Part A and Part B, Transportation, Urban Studies, Environment and Planning A, American Journal of Public Health, Journal of Transport Geography, and Journal of Urban Health etc. She is active in professional communities: she chairs the Time Use and Activity Patterns subcommittee at the Transportation Research Board, a division of the National Research Council. She is also a member of the Travel Behavior and Values committee, Travel Survey Committee, and the Telecommunications and Travel Behavior Committee.

Sabina Gesell, Ph.D
Vanderbuilt University Medical Center
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Dr. Gesell is an experimental psychologist conducting community-based effectiveness trials for the prevention and early intervention of childhood obesity. This work involves designing, implementing, and evaluating intervention strategies to promote healthy lifestyles among pregnant women and young children. Her research is community-engaged and translational, designed for high-risk, under-resourced, multi-ethnic neighborhoods. Dr. Gesell was recently awarded a 5 year career development award by the NICHD to expand her research and training in the application of social network methods to obesity prevention interventions. She is interested in how social ties and social structure influence the adoption and/or maintenance of health behaviors and how these processes might be leveraged to accelerate behavior change in obesity prevention initiatives.

Tamar Ginossar, Ph.D
University of New Mexico
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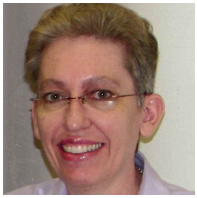
Tamar Ginossar is an Assistant Professor at the University of New Mexico. As a health communication scholar, her research focuses on health information behavior in the context of health disparities, including community-based participatory methods to examine use of communication technologies for health promotion and grass-roots advocacy. Her previous research included mixed- methods examination of computer-mediated and face-to-face health information behavior of cancer patients and their families

She is currently funded by the National Cancer Institute to conduct research that examines physicians' role in participation of minority patients in cancer clinical trials, and to design an intervention to increase such referrals. She also applies community-based participatory research approach to design theoretically-based health communication interventions using entertainment-education to decrease health information disparities of low-income Hispanic parents regarding early childhood development and behavioral health.

She received a Ph.D. in health communication from the University of New Mexico, M.A. in Speech Communication from the University of Illinois, Urbana Champaign, and a B.A. in Film and Television from Tel Aviv University. Prior to her graduate studies in the U.S., she worked as a script writer in the Israeli television.

network analysis track



Patricia Goodson, Ph.D
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Patricia Goodson is a tenured Professor of Health Education in the Department of Health & Kinesiology at Texas A&M University (TAMU). She is also the Director of the College of Education and Human Development's Writing Initiative (P.O.W.E.R. Services), which she created to support graduate students' academic writing. Her research focuses on sexual health of adults and adolescents, as well as on public health genomics. She is the author of two books: "Theory in Health Promotion Research and Practice: Thinking Outside the Box", and "Becoming an Academic Writer: 50 Exercises for Paced, Productive, and Powerful Writing." She has published extensively in high-impact journals and has served as Book Review Editor for the Journal of Sex Research. One of her intellectual passions is theory, and her theory book presents a critique of the Health Education field and its current emphasis on employing linear approaches to studying health behavior.

Emily Hauenstein, Ph.D, LCP, MSN, RN
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Dr. Emily Hauenstein is an academic researcher who has been conducting research in rural mental health for more than two decades. Focusing on the mental health needs of rural poor and minorities Dr. Hauenstein has conducted intervention research for rural and poor depressed women, emphasizing novel treatment and service delivery methods. Dr. Hauenstein's also has conducted policy research using secondary data methods on nationally representative samples to document inequities in receipt of mental health treatments, especially for rural women. She also has examined the effect of differing definitions of rurality on selected health and mental health outcomes. Dr. Hauenstein's more recent focus has shifted to the social conditions that affect rural women's mental health and is interested in applying social network analysis to identify adverse social conditions and propose public health approaches to reducing depression and social inequities for rural women.

Wonik Lee, Ph.D
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Wonik's major field of study and specialization is social welfare policy. As a behavioral and social scientist his research focuses on how socioeconomic environments and policies affect poor families and minorities.

His methodological research areas include clustered and longitudinal data analysis and mediation analysis. He has research experiences using large-scale secondary datasets such as National Longitudinal Survey of Youth (NLSY) and Survey of Income and Program Participation (SIPP). For about two years, he has been working on federally funded projects addressing oral health disparities at Case Western Reserve University School of Dental Medicine. This experience provided him the expertise to incorporate multiple perspectives including social sciences, dental medicine and public health into his research.

Throughout his academic and professional career, he has dedicated himself to merging his analytical skills with his passion for improving the quality of life for vulnerable people in our society.

Kelley Massengale, BA, MPH
University of North Carolina at Greensboro
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Currently a doctoral student in the Department of Public Health Education at the University of North Carolina at Greensboro, Kelley has several years of experience working on NIH funded grants to research HIV/AIDS in both domestic and international settings. Her particular interests are in acute HIV infection, sexual networks, and HIV testing behaviors. She has an interest in using social network analysis to study patterns of risk behaviors and the spread of infectious diseases.

network analysis track

Gerardo Maupomé, BDS, MSC, Ph.D
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Dr. Maupomé is an oral health researcher with primary interests in dental health services research and oral epidemiology, oral treatment needs among patients at high risk of disease or subject to health and social disparities, and analysis of professional practices. He has been involved in research projects spanning from epidemiological studies assessing the impact of public health fluoridation, to clinical trials of chlorhexidine varnishes; from community demonstrations to promote healthier lifestyle decisions, to quantitative appraisals of factors contributing to poor oral health and failure to access dental services; and from qualitative investigations into social and economic determinants of health, to economic analyses of the costs implied in health conditions and associated therapeutic procedures. Some of these studies have been focused on American Indians, people of Mexican and Hispanic origin, those 65 years of age and older, children, and population groups with restricted access to dental services. Dr. Maupome continues his research agenda to expand studies for all types of populations groups (both in North America and in less developed countries), with special attention to the identification, characterization, evaluation, and contrasts of disease manifestations and associated risk factors in the social and behavioral domains.

Vivia McCutcheon, Ph.D
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Vivia got her Ph.D. in 2005 from the Brown School of Social Work at Washington University and is now on faculty at the Midwest Alcoholism Research Center in the Department of Psychiatry, Washington University School of Medicine. Her research focuses on examining the interplay among biological, social, and other factors, such as trauma history and psychiatric disorders, as they influence the course of alcohol use disorders. She is currently in the 3rd year of a K-award for which she has gathered data to examine predictors of recovery and relapse among women with alcohol use disorders. She also uses twin and family data to tease apart the relative influence of genes and environment on alcohol use and psychiatric disorders. She is attending ISSH to learn how to measure and model social networks, which are consistently associated with remission in the literature and will be important to her future work.

Karen Mitchell, Ph.D, MPH
Boston University
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Dr. Mitchell is a Clinical Research Psychologist at the Women's Health Sciences Division of the National Center for PTSD at VA Boston Healthcare System and an Assistant Professor of Psychiatry at Boston University School of Medicine. She completed her PhD in Counseling Psychology (sub-speciality in Quantitative Methodology) at Virginia Commonwealth University in 2009. While in graduate school, she completed a pre-doctoral fellowship on an NIMH T32 in Psychiatric and Statistical Genetics at the Virginia Institute for Psychiatric and Behavioral Genetics (Richmond, VA). Dr. Mitchell completed her pre-doctoral internship in Health Psychology at the Cleveland VA Department of Veterans Affairs Medical Center. Her research interests include eating disorders, obesity, behavior genetics, and PTSD. She currently is embarking on a series of investigations of gene-environment interplay in the comorbidity of PTSD and disordered eating. Methodologies used include twin modeling, network science, epigenetic mechanisms, hierarchical linear modeling, and structural equation modeling.

Savithri Nageswaran, MD, MPH
Wake Forest School of Medicine
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Dr. Nageswaran is a pediatrician, a palliative care physician and a health service researcher in the Department of Pediatrics at Wake Forest School of Medicine. Dr. Nageswaran has developed a clinical palliative care program at Brenner Children's Hospital and provides clinical care to children with complex chronic conditions. Dr. Nageswaran leads two federally funded community-based projects that provide comprehensive care to children with complex chronic conditions. Dr. Nageswaran's research is focused on improving the system of care for children with complex chronic conditions. In a NIH funded study, she evaluated collaborations between agencies serving children with complex chronic conditions using social network analytical methods. Dr. Nageswaran teaches pediatric palliative care to resident physicians and medical students. She received the Cunniff Dixon Early Career Physician Award for excellence in pediatric palliative care in 2011.

network analysis track

Kuang-Yi Wen, Ph.D
Fox Chase Cancer Center
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Kuang-Yi Wen Ph.D., trained as a health systems and behavioral engineer, is Assistant Professor at Fox Chase Cancer Center. During her National Cancer Institute sponsored postdoctoral fellowship, Dr. Wen was educated at the crossroads of medical informatics, health services research and psychosocial oncology. Her research focus is two-pronged. First, she is interested in the development, evaluation, and dissemination of Interactive Health Communication Systems to help individuals coping with cancer. Second, she is interested in the simultaneous and synergistic development of systems models of healthcare to understand the influence and sustainability of health information technology adoption at the organizational and provider level. To bridge the divide between patients and the healthcare system, Dr. Wen is the PI of an AHRQ career award aimed to develop and evaluate a patient-centered electronic portal integrating personal medical records with educational and support content to facilitate breast cancer patient's treatment decision making and care management. Due to her interests in health disparities and survivorship, she is also conducting research in examining and addressing survivorship needs and experiences among Chinese American breast cancer survivors in the context of their health beliefs and acculturation level.

FACULTY

Doug Luke, Ph.D, Track Lead
Washington University in St. Louis
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Dr. Luke is a leading researcher in the areas of health behavior, organizational and systems science, health policy, and tobacco control. He also is a top biostatistician and social science methodologist who has made significant contributions to the evaluation of public health programs, tobacco control and prevention policy, and the application of new methods to community health interventions. He has expanded the repertoire of statistical methods, particularly the use of social network analysis and multilevel models, in the field of public health. He led the doctoral program at Saint Louis University School of Public Health, and has long served on the key Community Influences on Health Behavior study section at the National Institutes of Health. He is active in theAmerican Statistical Association, the International Network for Social Network Analysis, and the Society for Community Research and Action.

FACULTY

Bobbi Carothers, Ph.D, Track Assist
Washington University in St. Louis
bcarothers@gwbmail.wustl.edu

Bobbi has over 15 years of data collection, management, and analysis experience. Her research interests include applying social network analysis to public health evaluation contexts. She has applied social network analysis in an evaluation of the CDC National Tobacco Control Networks for Priority Populations, the St. Louis County's Communities Putting Prevention to Work initiative, the Washington University in St. Louis evaluation of the Institute for Clinical Translational Science Award, and several evaluations for the Missouri Foundation for Health. Her expertise includes development and maintenance of data management infrastructure, development of online survey tools, and analysis.

FACULTY

Chris Robichaux, BS, MS, Track Assist
Washington University in St. Louis
crobichaux@brownschool.wustl.edu

Chris serves as Data Analyst for the Missouri Foundation for Health's Healthy and Active Communities (H&AC) Initiative, the CDC-funded Program Sustainability Assessment Tool project, and the NCI-funded Maximizing Policies to Restrict Tobacco Marketing at Point of Sale project. He has over 5 years of experience involving statistical analyses, data management, user and grantee training, report development, building and maintaining databases, and distributing online surveys. Chris has used his skills in a variety of roles including merchandise analyst, adjunct instructor, and research assistant.

network analysis track

FACULTY

Janet Okamoto, Ph.D, MPH, Guest Lecturer

National Cancer Institute
janet.okamoto@nih.gov

Janet is a post-doctoral Cancer Research Training Award (CRTA) Fellow in the Behavioral Research Program (BRP) in the Division of Cancer Control and Population Sciences (DCCPS) at the National Cancer Institute (NCI). She is works with the Science of Team Science group in the Science of Research and Technology Branch and the Process of Care Research Branch (PCRB). She received her doctorate in Preventive Medicine (Health Behavior Research) from the University of Southern California. Janet's research at NCI examines using social network analysis to evaluate and better understand health and health behaviors, as well as evaluating the impact and contributions of team science initiatives. Her work has primarily focused on examining the effect of social influences, interpersonal interactions, and collaboration on behavior. Her larger research interests include an examination of how multi-level factors from the larger social-environmental context, social network structure and characteristics, group and team dynamics and attributes, and individual characteristics interact to influence complex health behaviors and the researchers who study them.

FACULTY

Jacqueline Merrill, RN, MPH, DNSc, Guest Lecturer

Columbia University
jacqueline.merrill@dbmi.columbia.edu

Jacqueline Merrill is an associate professor of clinical nursing in biomedical informatics at Columbia University, where she directs the Laboratory for Informatics, Complexity and Organizational Study (LICOS). She is a public health nurse and a health services researcher. Her research takes a complex adaptive systems approach to problems of organization and collaboration. Her primary techniques are organizational network analysis and mixed qualitative/quantitative methods, which she applies to study local public health agencies to help improve management and service delivery. She also uses network analysis as a technique to evaluate how information technology is implemented and how scientists work together. She recently completed a system dynamics evaluation of a complex health information technology implementation funded by the Health Care Efficiency and Affordability Law for New Yorkers (HEAL-NY) Capital Grant Program. She is currently analyzing how innovations are diffused through local health officials' advice networks to inform efforts aimed at developing high performing public health systems.

FACULTY

Jean McGloin, Ph.D, Guest Lecturer
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Jean is an Associate Professor in the Department of Criminology and Criminal Justice at the University of Maryland, where she began her professional career in 2004. She received her A.B. in Psychology from Bryn Mawr College, and her M.A. and Ph.D. in Criminal Justice from Rutgers University-Newark, where her dissertation focused on the social organization of local street gangs. Her main research interests include co-offending, peer influence, and offending specialization. She has published over 30 peer-reviewed articles, numerous book chapters, and is co-editor of the recent book When Crime Appears: The Role of Emergence (with Christopher Sullivan and Leslie Kennedy).

system dynamics track

Carolyn Aldwin, Ph.D.
Oregon State University
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Carolyn M. Aldwin is a professor in the Department of Human Development and Family Sciences, Oregon State University. She has over 100 publications in developmental health psychology. She is a fellow of both Divisions 20 (Adult Development and Aging) and 38 (Health Psychology) of the American Psychological Association, as well as the Gerontological Society of America, and is currently President of Division 20. Prof. Aldwin is editor of *Research in Human Development*, and has authored three books: *Stress, Coping, and Development, 2nd ed.* (Guilford), *Health, Illness, and Optimal Aging* (Sage), and the *Handbook of Health Psychology and Aging* (Guilford).

Tania Douglas, BScEng, MS, Ph.D
University of Cape Town
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Tania completed degrees in electrical/electronic and bioengineering at the University of Cape Town (UCT), Vanderbilt University and the University of Strathclyde. She conducted postdoctoral research in image processing at the Japan Broadcasting Corporation, has been a Humboldt Research Fellow at the Max Planck Institute for Neurological Research in Cologne, and has recently completed an MBA at UCT. Her research has focused on the development and assessment of medical devices and other health care technologies. She is concerned with promoting education and research for the application of biomedical engineering and medical imaging to address public health challenges, in a manner that gives due consideration to the social, cultural and political environment in which technological solutions are to be deployed. She is also interested in the way that universities interact with industry and civil society to achieve their so-called 'third mission' of engagement and societal development in the South African context.

Tommi Gaines, MD, PH, MS
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Tommi L. Gaines, DrPH, is a project scientist in the Division of Global Public Health at University of California, San Diego, where she conducts research on HIV/STIs along the US/Mexico border. As a trained biostatistician, she examines the social epidemiology of HIV/STIs by considering the interaction of social context, geographic location, and individual behaviors using spatial statistical models. This has highlighted the utility of geospatial measures to guide in the development of spatially relevant HIV prevention programs. In addition, her research interests include health surveys, multilevel analysis, missing data, and Bayesian modeling. She is interested in applying System Dynamics methodologies to simulate the behavioral and environmental processes interacting amongst each other and shaping disease transmission. Dr. Gaines holds a Master's degree in Statistics from San Diego State University and a Doctorate in Public Health with a specialization in Biostatistics from the University of California, Los Angeles.

Erin Hennessy-Marengi, Ph.D, MPH
National Cancer Institute
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Dr. Hennessy's research interests and experiences have focused on three interdisciplinary areas: 1) to measure and understand the relationship between the built environment and individual health behavior; 2) to explore and build on the role of the social environment in influencing disease risk; and 3) to design, test, and disseminate theory-based, multilevel, chronic disease prevention and health promotion interventions. For the past 10 years she has worked with families, schools, and communities nationwide - in both rural and urban settings - to change behaviors, policies, and environments that support active living and healthy eating. Most notably, Dr. Hennessy worked on the Shape Up Somerville project, the first multi-level, community-based participatory research intervention to reduce unnecessary weight gain among elementary school children.

Dr. Hennessy has a strong interest in systems science and its application to the design, evaluation, and dissemination of multilevel community-placed and community-based participatory research interventions.

system dynamics track

JiangHong Li, MD, MSC
Institute for Community Research
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Dr. JiangHong Li was trained in preventive medicine, health education, and community epidemiology. Her primary research interests include social behavioral aspects of HIV risk behavior prevention and intervention among drug users, commercial sex workers and other disadvantaged populations in the US and China. Dr. Li is especially interested in how risk behaviors are shaped by social network characteristics, inter-personal relationships, peer norms, and cultural context. Methodologically, she is interested in social network analysis, Respondent-Driven Sampling, integration of quantitative and qualitative methods, translation and Implementation science; community based multilevel intervention development and innovative methods to assess its efficacy and effectiveness in real world settings. Dr. Li has served as PI on two and Co-Investigator on 7 NIH funded studies.

Pamela Matson, Ph.D, MPH
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Pam is an Assistant Professor in the Department of Pediatrics at Johns Hopkins School of Medicine. She received her M.P.H. in Epidemiology of Microbial Diseases from Yale University and her Ph.D. in Infectious Disease Epidemiology from Johns Hopkins Bloomberg School of Public Health. Pam's area of research is in the social and behavioral epidemiology of sexually transmitted infections (STI) and drug use, with a particular focus on understanding the role of romantic relationship context on adolescent risk behavior. She is co-investigator and project director of an intensive longitudinal cohort study of young women who complete long-term daily electronic diaries with the objective of improving understanding of the variability in STI-associated behavior patterns within and between adolescent and young adult romantic relationships. She is the Associate Director of the Center for Child and Community Health Research (CCHR), a research center bringing together experts in community outcomes research among urban, disadvantaged youth.

Jennifer Pearson, Ph.D, MPH
Legacy
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Jennifer Pearson, PhD, MPH, is a Research Investigator at the Schroeder Institute for Tobacco Research and Policy Studies at Legacy. Her research focuses on the interplay between federal and local tobacco regulation, tobacco industry response, and consumer reactions to inform evidence--based tobacco control policy. Dr. Pearson has a background in survey methods, policy evaluation, and mixed methods. Before joining the Schroder Institute, Dr. Pearson was a doctoral candidate at the Department of Health, Behavior, and Society at the Johns Hopkins Bloomberg School of Public Health. She earned her MPH from the George Washington in 2007, where she was inducted into the Delta Omega national public health honor society. Dr. Pearson has worked for the American Lung Association and served as a US Peace Corps volunteer in Guinea, West Africa from 2002--2004.

Irena Pesis-Katz, Ph.D
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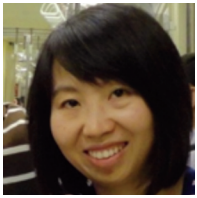
Irena Pesis-Katz is an Assistant Professor of Health Services Research and Policy at the University of Rochester School of Nursing. Her research focuses on the design and evaluation of interventions for quality improvements in hospitals, health insurance industry and long-term care settings as well as quality of care, economic implications and cost-effectiveness of different programs. For the past two years, she was one of the leading members of the Upstate Health Research Network (UHRN) and a site PI for this large New York State grant. This grant was part of NYS Attorney General's nationwide reform of the consumer reimbursement system for out-of-network healthcare services. Before joining UHRN, Irena worked for several years as a Director of Quality Improvement Research and Measurement at Excellus BlueCross BlueShield, one of the largest insurers in Upstate NY. As part of her work, she used claims data to answer different quality improvement questions and provided models for improving quality of care and programs evaluation.

system dynamics track



Michele (Xiaomin) Qiu, Ph.D
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Dr. Xiaomin Qiu is an assistant professor of geospatial science in the Department Geography, Geology, and Planning at Missouri State University. She has extensive experience in geospatial research, including geovisualization, spatial analysis, spatial statistics, and data modeling. Recently she has been interested in the public health issues, especially childhood overweight and obesity. She recognizes that incorporating traditional public health data with geospatial data (data with geographic locations, e.g. coordinates, zipcodes, and different levels of census or administrative boundaries), and integrating system dynamics modeling with spatial analysis methods will provide irreplaceable insights and contributions to the research on childhood overweight and obesity in different physical and human environments.

Evelyn (Byrd) Quinlivan, BSN, MD
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Dr. Quinlivan is an Associate Professor in the Division of Infectious Diseases at the University of North Carolina – Chapel Hill and the medical director of the clinic. She brings 15 years of clinical and translational research collaborations by developing a philosophy of outstanding HIV care that includes the need to learn from the patient care experience of today so that tomorrow's care is improved. In 2001, the success of antiretroviral therapy was obvious and the impact on the clinic population was tremendous. However, there were many patients who did not benefit from these scientific breakthroughs. As the demography shifted from white MSMs with education to impoverished African Americans, it became apparent that there were systemic barriers of poverty, low literacy, substance abuse and mental illness that prevented viral suppression and reductions in HIV transmission. To address these barriers at a system level, screening and intervention programs were added to address substance abuse, HIV risk behavior, depression and retention in care. More recently a SPNS award has been awarded to North Carolina in which the elements necessary for care will be addressed for larger systems of regional and statewide for care. She plans to use the skills developed from the ISSH workshop to address systemic barriers to care at the regional and state level.

Diana Romero, Ph.D, MA
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Dr. Romero is Associate Professor in the Community Health MPH program and Coordinator of the Community, Society and Health DPH program at the CUNY School of Public Health in New York. Her research interests include domestic reproductive-health and poverty policy; factors influencing fertility and family-formation decision-making; and, Latino health issues. Some of her recent and current projects include a large-scale, qualitative in-depth interview study of adults' family formation attitudes and behaviors in NY and NJ; a mixed-methods community health assessment following the closure of St. Vincent's Hospital; a focus group study examining the barriers faced by Latinos with regard to higher education in public health and other health-related professions; and, quantitative analysis of the National Survey of Family Growth (NSFG). Dr. Romero teaches graduate-level courses in research methods and evaluation. She received her PhD in Sociomedical Science at Columbia University, New York.

Asheley Skinner, Ph.D
University of North Carolina
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As an Assistant Professor in the Department of Pediatrics, Division of General Pediatrics and Adolescent Medicine, Asheley brings over ten years of experience in research methodology, child health, and analytics. In addition to her primary role as an investigator in clinical and translational research in child health, she also participates in and leads several multidisciplinary team projects across the UNC campus and North Carolina. Her research examines dynamic and complex strategies that aim to address the childhood obesity epidemic and improve adolescent health behaviors, as well as evaluations of health policy such as the NC Medicaid "Lock-in" program.

system dynamics track

Ann Marie White, Ed.D
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Dr. White is Director of the Office of Mental Health Promotion (OMHP) and Assistant Professor of Psychiatry at the University of Rochester Medical Center. She leads department-level change initiatives to deepen Psychiatry's community engagement via service, education and research. OMHP oversees community, consumer and diversity affairs for Psychiatry faculty and staff. Dr. White directs local and national training activities in collaborative research to infuse scientific inquiries with mental health-related policy and program activities of communities. She promotes mental health supporting behaviors, services utilization and mental illness prevention strategies within community-based settings. For instance, she developed participatory research with volunteer "natural helpers" seeking to strengthen urban neighborhoods' violence prevention activities. She conducts multimedia education to develop civic engagement among youth and young adults from traditionally disadvantaged backgrounds. Her research interests focus on successful transitions into adulthood. Her 10+ years of research experiences in developmental psychology emphasized the role of community settings such as childcare, arts centers and after-school programs in the development of children and adolescents. Upon completion of her doctorate in Human Development and Psychology from Harvard's Graduate School of Education, she was a AAAS/SRCD fellow in the U.S. Senate and the National Institutes of Health.

Nigel Unwin, BA BM BCh MSc DM FRCP FFPH
University of the West Indies
nigel.unwin@cavehill.uwi.edu

Nigel trained initially in internal medicine, which included time as a junior doctor at the University of the West Indies, Jamaica, and then specialized in public health and epidemiology. His recent career history has included working as a Senior Lecturer in Epidemiology at Newcastle University (UK), a Medical Officer at the World Health Organisation, and then Professor of Epidemiology at Newcastle. His current post, which began in August 2010, includes helping to run post graduate programs in Public Health (MPH and PhD) and teaching medical students. He has had a career long research interest in the epidemiology, public health impact and control of chronic non-communicable diseases (NCDs), particularly diabetes and cardiovascular disease. The prevention of NCDs remains a huge challenge and Nigel is aiming to develop a research program that will help to guide and evaluate the impact of population wide policy measures on their prevention.

Yong Yang, Ph.D
University of Michigan
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With a background in geography and geographical information systems, Dr. Yang is a member of the research faculty in the department of epidemiology. His research focuses on examining how the human's daily activities are influenced by the built and social environment and the corresponding impact on human health. Yong's research methodologies include agent-based modeling, micro-simulation, spatial analysis and statistical analysis. His main related project is the application of agent-based modeling to simulate adult's daily walking within urban areas.

FACULTY

Peter Hovmand, Ph.D, MPH, Co-Track Lead
Washington University in St. Louis
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Dr. Peter Hovmand is the Founding Director of the Social System Design Lab at the Brown School of Social Work, Washington University in St. Louis where he uses system dynamics to understand and evaluate community level interventions. He has a background in electrical engineering, mathematics, and philosophy, and received his doctorate in social work and community psychology from Michigan State University. His research focuses on developing and using participatory group model building (GMB) techniques to involve community members in the creation of models to understand the role of social determinants of health, scale-up of health innovations, and the design of community prevention strategies. Application areas include childhood obesity, K-12 education, mental health, domestic violence, child welfare, family health, and household economic security.

system dynamics track

FACULTY

Kristin Hassmiller Lich, Ph.D, Co-Track Lead

University of North Carolina at Chapel Hill
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Dr. Lich is an Assistant Professor in the Department of Health Policy and Management at the University of North Carolina at Chapel Hill. She received her Master in Health Services Administration and PhD in Health Services Organization and Policy from the University of Michigan, School of Public Health. Dr. Lich specializes in the application of systems thinking, operations research and systems science modeling techniques to health policy and management decision making. She is currently working most extensively in mental health systems improvement and cancer, but has also applied these tools in other contexts. In ongoing work, she is developing a quantitative multi-level simulation model to support decision-making about how to allocate limited resources to translate evidence into real-world practice around stroke care in the Veterans Health Administration. She is also applying similar methods to improve crisis service systems for individuals living with severe mental illness in North Carolina communities. Dr. Lich's research passion is to advance the way we use models (both quantitative and qualitative) and local data to improve policy-decision making, and to engage system stakeholders in the process. She has been invited to talk about the use of models to inform policy and the dissemination and implementation of evidence-informed practice in a variety of settings, including the Centers for Disease Control and Prevention, the National Institutes of Health, and numerous meetings and workshops.

FACULTY

Jill Kuhlberg, Track Assist

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Jill is a doctoral student in the department of Social Work at Washington University in St. Louis, where she works on evaluation and research projects at the Social System Design Lab, Center for Public Health Systems Science, and Center for Latino Family Research. Jill attended the University of California – San Diego, obtaining a BA in Latin American Studies, and then completed two years serving in Teach for America as a bilingual second grade teacher on the Texas/Mexico border. After teaching, she obtained her Master's in Social Work. Jill attended ISSH in 2011, and has continued to develop her understanding of systems science methods including SD and network analysis through formal course work and involvement in research projects. Jill plans to use system dynamics and group model building for her dissertation, which will focus on childhood obesity in communities on both sides of the U.S./Mexico border.

FACULTY

Nishesh Chalise, MSW, Track Assist
Washington University in St. Louis
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Nishesh is a second year doctoral student interested in interactions between society and environment and in the practice of community based participatory research. He has worked in number of projects through the Social System Design Lab (SSDL). His work has included developing models, planning Group Model Building sessions, developing methods for participatory approaches to model building, and building models from qualitative data for multiple case studies. He was also the teaching assistant for the System Dynamics and Group Model Building courses offered through SSDL. As a teaching assistant, he worked with students to develop their model building capacities and to helped plan sessions for group model building.

FACULTY

George P. Richardson, AB, MAT, Ph.D, Guest Lecturer
University at Albany- State University of New York
gpr@albany.edu

George P. Richardson is O'Leary Professor of Public Administration and Policy in the Rockefeller College of Public Affairs and Policy at the University at Albany, and affiliated Professor of Informatics in the College of Computing and Information. He is the author of Introduction to System Dynamics Modeling with DYNAMO (1981) and Feedback Thought in Social Science and Systems Theory (1991, 1999), both of which were honored with the System Dynamics Society's Jay W.Forrester Award, and the edited two-volume collection Modeling for Management: Simulation in Support of Systems Thinking (1996). He founded the System Dynamics Review and later served for seven years as its Executive Editor.

Professor Richardson has been honored with awards from the University and the State University of New York for Excellence in Teaching (2003) and Excellence in Academic Service (2010). In 2011, the System Dynamics Society recognized him with its award for Outstanding Service for his contributions to the Society and the field.

system dynamics track

FACULTY

Sara Metcalf, Ph.D, MBA, MS, Guest Lecturer
The State University of New York at Buffalo
smetcalf@buffalo.edu

As Assistant Professor of Geography at the University at Buffalo (UB), Dr. Metcalf specializes in dynamic modeling for urban health and sustainability. She utilizes systems science to integrate grey and green urban infrastructure, applying the methodology of system dynamics in constructing, simulating, and testing stock-flow and agent-based models of resource issues, migration patterns, and other aspects of urban social geography. Dr. Metcalf is currently funded by an NIH grant with the dental schools of New York University and Columbia University to model the social dimensions of healthy aging in urban environments. She received a UB2020 Civic Engagement & Public Policy research fellowship for work with the Massachusetts Avenue Project to examine the significance of urban agriculture in Buffalo's local food movement. Dr. Metcalf has also received NSF funding for research on the role of mental models in shaping stakeholder decisions about shared resource concerns in metropolitan areas.

FACULTY

Krystyna A. Stave, MS, Ph.D, Guest Lecturer
University of Nevada, Las Vegas
krystyna.stave@unlv.edu

Krys has been a professor of Environmental Studies for the past 15 years. Her teaching and research use a systems perspective to promote sustainable environmental management, increase community understanding of environmental issues, and increase public participation in environmental decision-making. Her technical expertise is developing system dynamics simulation models for environmental decision-making. She teaches systems modeling, conducts research on the effectiveness of systems models for environmental decision-making, and works with stakeholder groups to develop models for specific issues.

She holds a bachelor's degree in Operations Research, and an M.S. degree in Systems Analysis and Policy Design. Her doctorate is from the Yale School of Forestry and Environmental Studies. She has been on the faculty of University of Nevada Las Vegas since 1997 and previously worked abroad in international development.

Laura Landy
Fannie E. Rippel Foundation
Llandy@rippelfoundation.org

Laura K. Landy was named President and CEO of the Fannie E. Rippel Foundation in 2006 and has served as a member of the Board of Trustees since 1998. She is also the founder and chair of ReThink Health, an initiative of the Rippel Foundation.

Throughout her career, Ms. Landy has brought sound business and strategic thinking to creating sustainable solutions to pressing social issues. As President of Applied Concepts, a consulting firm she established in 1983, her efforts focused on the changing dynamics in health, higher education, finance, social services and culture. Among her health-related activities have been relationships with Pfizer, the New Jersey Department of Health and Senior Services, AT&T and urban health systems.

Ms. Landy's expertise in entrepreneurship and corporate venturing led her to create and direct the Institute for Nonprofit Entrepreneurship at NYU's Stern School of Business where she also taught and served as Associate Director of the Center for Entrepreneurial Studies. She has also been a member of the adjunct faculty of Columbia University, Carnegie Mellon, the New School, and Fairleigh Dickinson. Ms. Landy received her undergraduate degree from Washington University in St. Louis. After graduate work at the University of California, Berkeley, she received her MBA from New York University. She is a Fellow of the New York Academy of Medicine.

Ana Diez-Roux
University of Michigan
adiezrou@umich.edu

Ana Diez Roux, MD Ph.D., is Professor and Chair of Epidemiology and director of the Center for Social Epidemiology and Population Health in the School of Public Health, a research professor in the Survey Research Center in the Institute for Social Research, and director of the Robert Wood Johnson Health and Society Scholars Program at the University of Michigan.

Dr. Diez Roux has been an international leader in the investigation of the social determinants of health, the application of multilevel analysis in health research, and the study of neighborhood health effects. Her research areas include social epidemiology and health disparities, environmental health effects, urban health, psychosocial factors in health, and cardiovascular disease epidemiology. Recent areas of work include social environment-gene interactions and the use of complex systems approaches in population health.

plenary speakers

Ana Diez Roux, MD, PhD (continued)

Diez Roux serves on numerous review and advisory committees and was awarded the Wade Hampton Frost Award for her contributions to public health by the American Public Health Association. She was elected to the Institute of Medicine of the National Academy of Sciences in 2009.

Dr. Diez Roux received an MD from the University of Buenos Aires, a master's degree in public health and doctorate in health policy from the Johns Hopkins School of Hygiene and Public Health.

Joseph Lee Rodgers, Ph.D
University of Oklahoma
jrodgers@ou.edu

Joe Rodgers, a Quantitative Psychologist at the University of Oklahoma for 31 years, is a George Lynn Cross Research Professor and the Robert Glenn Rapp Foundation Presidential Professor. In August, 2012 he will join the Quantitative Psychology program at Vanderbilt. He received his Ph.D. from UNC in 1981. He has held visiting positions at Ohio State, University of Hawaii, UNC, Duke, University of Southern Denmark, and University of Pennsylvania. His research team has been continuously funded by NIH since 1987 to develop mathematical models of adolescent intellectual development, young adult fertility, and family/friendship interactions. His methodological interests include mathematical modeling, resampling theory, quasi-experimental design, EDA, and multidimensional scaling. He was the editor of the applied methods journal Multivariate Behavioral Research from 2006 to 2011, and is a past-president of the Society of Multivariate Experimental Psychology, the Society for the Study of Social Biology, and APA's Population and Environmental Psychology Division. His wife Jacci is chair of Accounting at Oklahoma City University. They have two teenage daughters, Rachel and Naomi.

Mark Clanton
American Cancer Society
Mark.Clanton@cancer.org

Dr. Mark Clanton is the chief medical officer of the High Plains Division of the American Cancer Society and he is the former deputy director of the United States National Cancer Institute at the National Institutes of Health.

Prior to Federal service he served as the chief medical officer of a three million life Blue Cross Blue Shield of Texas and the vice president of a one million member drug card program.

Mark Clanton (continued)

In both 2005 and 2006, Dr. Clanton was honored with the Secretary of Health and Human Service Distinguished Service Award as well as the National Institute of Health directors Award of Merit.

Dr. Clanton is currently a voting member of the Food and Drug Administration, Tobacco Products Scientific Committee; he is a member of the Washington University in St. Louis National Council for the Institute of Public Health, where he advises the Institute on the development of a full time school of public health. Dr. Clanton is member of the external advisory boards of the Siteman Cancer Center, the University of Kansas Cancer center and he is the chairman of the University of Hawaii Cancer Center external advisory board.

In 2011 Dr. Clanton was named to the Washington University in St. Louis, Transdisciplinary Research in Energetics and Cancer Center (TREC) external advisory board. The TREC grants represent a 45 million dollar, multi-site consortium whose purpose is to understand the causes of obesity and it's relationship to cancer.

Dr. Clanton received his undergraduate degree from Howard University, his medical degree from Tulane University Medical School and his master of public health from the Harvard School of Public health. He completed his training in Pediatrics at the Baylor Pediatrics program in Houston.

Dr. Clanton is immediate past president of the Harvard School of Public Health Alumni Council and he currently serves on the board of directors of the University Wide Harvard Alumni Association.

George P. Richardson, AB, MAT, Ph.D, Guest Lecturer

University at Albany- State University of New York
gpr@albany.edu

George P. Richardson is O'Leary Professor of Public Administration and Policy in the Rockefeller College of Public Affairs and Policy at the University at Albany, and affiliated Professor of Informatics in the College of Computing and Information. He is the author of Introduction to System Dynamics Modeling with DYNAMO (1981) and Feedback Thought in Social Science and Systems Theory (1991, 1999), both of which were honored with the System Dynamics Society's Jay W.Forrester Award, and the edited two-volume collection Modeling for Management: Simulation in Support of Systems Thinking (1996). He founded the System Dynamics Review and later served for seven years as its Executive Editor.

Professor Richardson has been honored with awards from the University and the State University of New York for Excellence in Teaching (2003) and Excellence in Academic Service (2010). In 2011, the System Dynamics Society recognized him with its award for Outstanding Service for his contributions to the Society and the field.

funding panel

Patricia L. Mabry, Ph.D
NIH - OBSSR
mabryp@od.nih.gov

Dr. Mabry is a Senior Advisor in the Office of Behavioral and Social Sciences Research (OBSSR) at the National Institutes of Health (NIH) where she is facilitating the emergence of a new field that integrates systems science with health-related behavioral and social science research. Dr. Mabry has led the issuance of funding opportunity announcements in systems science and co-leads an annual training course, the Institute on Systems Science and Health (ISSH). She co-leads Envision, a network of computational modeling teams focused on policy interventions to combat obesity. Dr. Mabry has published on tobacco control, interdisciplinary research, and systems science in the Lancet, Nicotine and Tobacco Research, the American Journal of Public Health and the American Journal of Preventive Medicine. She was a member of the team that received the Applied Systems Thinking Prize in 2008, and is a Society of Behavioral Medicine Fellow. Her full biography is at http://obssr.od.nih.gov/about_obssr/staff/patricia_mabry_bio.aspx.

Helen Meissner, ScM, Ph.D
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Helen Meissner, Sc.M., Ph.D., Senior Advisor, NIH Office of Behavioral and Social Sciences Research (OBSSR) is responsible for public health and population science research initiatives. Since joining OBSSR in October 2007, Dr. Meissner has been directing scientific initiatives in health literacy and inequality and health. She also leads the development of an annual training course, the Training Institute for Dissemination and Implementation Research in Health (TIDIRH) and chairs the annual NIH conferences in the Science of Dissemination and Implementation. Dr. Meissner commissioned development of Best Practices for Mixed Methods Research in the Health Sciences and has been developing related resources for NIH investigators.

Prior to joining OBSSR, Dr. Meissner served as chief of the National Cancer Institute's Applied Cancer Screening Research Branch where she provided scientific leadership in support of social, behavioral and communications research to promote the use of effective cancer screening tests. Dr. Meissner continues to serve as an associate editor for Cancer Epidemiology Biomarkers and Prevention.

Regina Bures
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Regina Bures is a Program Official with the Demographic and Behavioral Sciences branch of the Eunice Kennedy Shriver National Institute of Child Health & Human Development. At NICHD she manages research portfolios covering population health, health economics, family demography, as well as spatial and environmental demography. In addition, Dr. Bures manages Educational Programs for Demography and Population Science Research (R25) and co-manages the Branch's National Research Service Award Institutional Research Training Grants (T32) Program. She serves with Dr. Patty Mabry of OBSSR as the co-lead on the NCCOR Envision collaboration. Dr. Bures received her doctorate in sociology with a concentration in demography from Brown University and completed a postdoctoral fellowship at the Center for the Demography and Economics of Aging at the University of Chicago. Prior to joining the NICHD in 2010 she held a faculty position at the University of Florida. Dr. Bures has served as the principal investigator on NIH and NSF funded grants and her research has been published in Demography, the Journal of Family Issues, and the American Journal of Public health.

Tomas Drgon
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Dr. Tomas Drgon is the Scientific Review Officer for the Biostatistical Methods and Research Design (BMRD) Study Section and System Sciences Special Emphasis Panel in the Healthcare Delivery and Methodologies Integrated Review Group. He earned his Ph.D. in molecular biology and biochemistry from Comenius University in Bratislava, Slovakia, with pre-doctoral training at the University of Basel in Switzerland, and postdoctoral training at the National Institute for Diabetes, Digestive and Kidney Diseases in Bethesda and University of Maryland Biotechnology Institute in Baltimore. Before joining CSR, Dr. Drgon was a staff fellow at the National Institute on Drug Abuse, where he worked on Genome Wide Association Studies in substance dependence and other psychiatric phenotypes. Dr. Drgon's scientific interests include multivariate analysis, analysis of high dimensional datasets, empirical statistics, Bayesian networks, knowledge bases, decision support systems, systems biology and health policy.

funding panel

Ross Brownson
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Ross C. Brownson, Ph.D. is professor in the Brown School and the School of Medicine (Division of Public Health Sciences) at Washington University in St. Louis. He is involved in numerous community-level studies designed to reduce modifiable risk factors such as physical inactivity, unhealthy eating, and tobacco use. In particular, he is interested in evaluating the impacts of environmental and policy interventions on health behaviors. Dr. Brownson conducts research on dissemination of evidence-based interventions in public health and policy settings. He is co-director of the CDC-funded Prevention Research Center (PRC), a 5-year project aimed at developing innovative approaches to chronic disease prevention. Current activities of PRC include evaluation of the implementation of the National Physical Activity Plan and describing the public perceptions regarding physical activity and obesity policies. Dr. Brownson is the author of seven books and more than 300 peer-reviewed articles. His books include Chronic Disease Epidemiology and Control, Applied Epidemiology, Handbook of Obesity Prevention, Evidence-Based Public Health, and Dissemination and Implementation Research in Health: Translating Science to Practice. Dr. Brownson previously served on the IOM Committees on An Evidence Framework for Obesity Prevention Decision Making, Progress in Preventing Childhood Obesity, and Prevention of Obesity in Children and Youth. He received his Ph.D. in environmental health and epidemiology from Colorado State University.

Dean Edward Lawlor
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Dr. Edward F. Lawlor was named dean of the Brown School in 2004, and is the founding director of Washington University's Institute for Public Health, a University-wide initiative launched in 2008.

Dr. Lawlor researches and writes on access to health care, health care reform, policy analysis, and aging. A national Medicare expert, he is the author of Redesigning the Medicare Contract: Politics, Markets, and Agency. He also teaches classes on health care policy and services, and policy analysis

Prior to joining the Brown School he served as dean at the School of Social Service Administration at the University of Chicago from 1998 to 2004. From 1990-1998, he was the director of both the Center for Health Administration

Studies and the Graduate Program in Health Administration and Policy at the University of Chicago. He is founding editor of the Public Policy and Aging Report.

For ten years Dr. Lawlor was a member and secretary of the Chicago Board of Health and has served on numerous policy and advisory bodies in the fields of health care and aging. Dr. Lawlor earned his Ph.D. from the Florence Heller Graduate School for Advanced Studies in Social Welfare at Brandeis University and his A.B. from Bowdoin College.

Nancy Mueller, MPH
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Nancy B. Mueller is the associate director of the Institute for Public Health at Washington University in St. Louis. Nancy is responsible for planning and implementing the Institute's strategic initiatives. She has been working in public health research and administration for over 15 years. Prior to joining the Institute in 2012, she served as the associate director for Washington University's Center for Tobacco Policy Research for 10 years, where she helped establish it as a nationally-recognized research and evaluation leader. Mueller has focused her research career on understanding state and community tobacco control systems, and the ability for chronic disease prevention programs to sustain their efforts in dynamic climates. As an active member of both state and community coalitions, she has worked to implement evidence-based practices and policies to help improve the health of Missourians. Mueller earned her masters of public health degree at the University of Texas School of Public Health.

alumni panel

Jon Morgenstern
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Jon Morgenstern, Ph.D is Professor of Clinical Psychology in Psychiatry at Columbia University College of Physicians and Surgeons and Director, Addiction Treatment at Columbia University Medical Center. Dr. Morgenstern's area of research is the treatment of substance use disorders, with a focus on mechanisms of behavior change. His research program has been continuously funded by NIH since 1989. He is currently collaborating with computational mathematicians to develop a dynamic model of individual behavior change for problem drinking.

Tom Kirchner, Ph.D
Legacy
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Thomas R. Kirchner, PhD, is a Research Investigator at the Schroeder Institute for Tobacco Research and Policy Studies at Legacy. Dr. Kirchner holds appointments as Assistant Professor (Adjunct) at the Johns Hopkins Bloomberg School of Public Health, and at Georgetown University Medical Center. Dr. Kirchner serves on the Steering Committee for the Johns Hopkins University Global mHealth Initiative and is a member of the motivational interviewing network of trainers. Dr. Kirchner completed his Masters and Doctorate in both Clinical and Health Psychology at the University of Pittsburgh. Dr. Kirchner's work aims to understand health-related behavior and decision-making in the context of both "when" and "where." He is particularly interested in the use of mobile devices to capture the multilevel interface between stable individual differences and momentary intrinsic and extrinsic circumstances that arise in the social environment. Dr. Kirchner is also interested in the analysis and graphical representation of "intensive" longitudinal and geospatial data.

Lynne Messer
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Dr. Messer is an Assistant Professor in the Center for Health Policy and Inequalities Research of the Duke Global Health Institute at Duke University. With a doctoral degree in epidemiology, and an emphasis on reproductive / perinatal and social epidemiology, she is an investigator on cohort studies (Positive Outcomes for Children, Southern Center on Environmentally-Driven Disparities in Birth Outcomes) that allow her to explore the psychosocial and historical mechanisms that lead from social and physical environments to reproductive status and outcomes. She has also been engaged in large database studies (Mechanisms to Birth Outcomes Disparities) to determine the population-level factors associated with adverse maternal and child health outcomes. Substantively, she am interested in how social and environmental factors jointly contribute to health and health disparities, and have explored this topic mostly among women and children in urban settings. Dr. Messer is interested in the social-structuring of health across health topics, ranging from the trajectories into sex work and HIV risk among orphans and other vulnerable children in low-wealth countries to how residential and built environments contribute to maternal and child health disparities. Internationally, my evaluation work has allowed me to consider the children left orphaned by the death of or abandonment by one or both parents (POFO), and how their villages and larger group villages are mobilizing to meet the health, education, psychosocial and livelihood needs of this growing population of youth in less-wealthy countries.

Joshua Behr, Ph.D
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Joshua G. Behr, PhD. Trained at the University of New Orleans specializing in urban and minority politics. He has taught a variety of public policy, state government, statistical methods, and GIS in public health courses at the University of New Orleans, Southwestern Oklahoma State University, Old Dominion University, and Eastern Virginia Medical School. He has published a variety of articles, book chapters, and a university press book. He has conducted studies on quality of life, health behavior, and vulnerability of populations stemming from severe storm events. Currently, he is a research professor at the Virginia Modeling, Analysis and Simulation Center (VMASC) where he is researching the relationships among policy interventions and change in patients' medical venue selections when seeking health services. He is currently the Series Editor of Wiley's Bridges to Modeling and Simulation series.

steering committee

Patricia L. Mabry, Ph.D
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Dr. Mabry is a Senior Advisor in the Office of Behavioral and Social Sciences Research (OBSSR) at the National Institutes of Health (NIH) where she is facilitating the emergence of a new field that integrates systems science with health-related behavioral and social science research. Dr. Mabry has led the issuance of funding opportunity announcements in systems science and co-leads an annual training course, the Institute on Systems Science and Health (ISSH). She co-leads Envision, a network of computational modeling teams focused on policy interventions to combat obesity. Dr. Mabry has published on tobacco control, interdisciplinary research, and systems science in the Lancet, Nicotine and Tobacco Research, the American Journal of Public Health and the American Journal of Preventive Medicine. She was a member of the team that received the Applied Systems Thinking Prize in 2008, and is a Society of Behavioral Medicine Fellow. Her full biography is at http://obssr.od.nih.gov/about_obssr/staff/patricia_mabry_bio.aspx.

Bobby Milstein, Ph.D, MPH
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Bobby Milstein supports and studies innovations to improve health and health equity. With an educational background that combines cultural anthropology, behavioral science, and systems science, he specializes in strategies to achieve large-scale institutional change. Bobby currently leads the Hygeia Dynamics Policy Studio and directs a portfolio of health system change initiatives for the Fannie E. Rippel Foundation. He also has academic appointments at the MIT Sloan School of Management and the BU School of Public Health. From 1991 to 2011, Bobby worked at the Centers for Disease Control and Prevention, where he founded the Syndemics Prevention Network, chaired the agency's Behavioral and Social Science Working Group, and coordinated planning/evaluation activities for new initiatives on a variety of topics. He was the principal architect of CDC's framework for program evaluation, helped establish the agency's Preparedness Modeling Unit, and published a monograph entitled, Hygeia's Constellation: Navigating Health Futures in a Dynamic and Democratic World, which was recommended as "required reading for all health professionals." Bobby is a co-founder (with Patty Mabry) of the annual Institute on Systems Science and Health, and a co-developer of the HealthBound Policy Simulation Game as well as the Prevention Impacts Simulation Model, both award-winning tools that bring greater structure, evidence, and creativity to the challenge of health system change

Peter Hovmand, Ph.D
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Dr. Peter Hovmand is the Founding Director of the Social System Design Lab at the Brown School of Social Work, Washington University in St. Louis where he uses system dynamics to understand and evaluate community level interventions. He has a background in electrical engineering, mathematics, and philosophy, and received his doctorate in social work and community psychology from Michigan State University. His research focuses on developing and using participatory group model building (GMB) techniques to involve community members in the creation of models to understand the role of social determinants of health, scale-up of health innovations, and the design of community prevention strategies. Application areas include childhood obesity, K-12 education, mental health, domestic violence, child welfare, family health, and household economic security.

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notes

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