DEPARTMENT OF EPIDEMIOLOGY AND BIOSTATISTICS
Michigan State University | College of Human Medicine

1989 - 1997
Director, Epidemiology Program
Nigel Paneth
Director, Division of Biostatistics
Joseph Gardiner

1994
MS in Epidemiology

1997 - 2002
Department Chair
Nigel Paneth
Associate Chair
Joseph Gardiner

1999
Certificate in Epidemiology

2001
PhD in Epidemiology

2003 - 2008
Department Chair
James C. Anthony
Associate Chair
Joseph Gardiner

2007
Specialization in Global Health and Epidemiology

New Name: Department of Epidemiology and Biostatistics

2012 - Present
Department Chair
Claudia Holzman
Associate Chair
Joseph Gardiner

2013
MS in Biostatistics
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THE YEAR IN REVIEW

2013-2014
Our department faculty participate as lead investigators or co-investigators for biomedical research and research related grants and contracts to MSU totaling $8,423,026. Approximately 81% of these funds are from the National Institutes of Health (Figure 1).
Our department faculty’s extramural awards (funds directly aligned with our department) totaled $5,144,836. Approximately 85% of these funds were from the National Institutes of Health (Figure 2).
Much of our research is collaborative and involves inter-disciplinary and inter-department or inter-university research teams. Approximately 60% of our research funds included co-investigators in other MSU departments and/or at other universities (Figure 3).
## EXTRAMURAL RESEARCH GRANTS

<table>
<thead>
<tr>
<th><strong>FUNDING AGENCY</strong></th>
<th><strong>MECHANISM</strong></th>
<th><strong>TITLE</strong></th>
<th><strong>INVESTIGATORS</strong></th>
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</thead>
<tbody>
<tr>
<td>NIH: National Institute on Drug Abuse</td>
<td>KOS Senior Scientist Award</td>
<td>Drug Dependence Epidemiology and Enviromics</td>
<td>Anthony, James C.</td>
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<tr>
<td>Univ of Colorado - Denver / NIH</td>
<td>Subcontract</td>
<td>Implementing Sustainable Diabetes Prevention and Self-Management in Primary Care</td>
<td>Barry, Henry; Luo, Zhehui; Maiti, Tapabrata</td>
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<td>Univ ILL at Urbana Champaign/U.S.</td>
<td>Subcontract/Project (POI)</td>
<td>Novel Methods to Assess the Effects of Chemicals on Child Development</td>
<td>Gardiner, Joseph</td>
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<tr>
<td>Environmental Protection Agency</td>
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<td>Univ ILL at Urbana Champaign/NIH:</td>
<td>Subcontract/Project (POI)</td>
<td>Novel Methods to Assess the Effects of Chemicals on Child Development</td>
<td>Gardiner, Joseph</td>
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<tr>
<td>National Institute of Environmental</td>
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<td>Health Sciences</td>
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<td>Wayne State Univ/NIH: National Institute of Mental Health</td>
<td>Subcontract</td>
<td>Epidemiology of Late-Life Depression and Ethnicity Research Study</td>
<td>Gonzalez, Hector</td>
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<tr>
<td>NIH</td>
<td>R03</td>
<td>Are Live Births Endogenous and Does It Matter?</td>
<td>Haider, Steve; Goddeers, John; Elder, Todd; Paneth, Nigel</td>
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<tr>
<td>Agency for Healthcare Research and Quality</td>
<td>R18</td>
<td>A Comparison of Provider Versus Health Plan Delivered Care Management in Michigan</td>
<td>Holtrop, Jodi; Luo, Zhehui; Maiti, Tapabrata</td>
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<tr>
<td>NIH: National Heart, Lung, and Blood Institute</td>
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<td>Preterm Delivery and Maternal Cardiovascular Disease Risk</td>
<td>Holzman, Claudia; Senagore, Patricia; Sikorskii, Alla</td>
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<td>Univ of Rochester / NIH: National Institute of Neurological Disorders and Strokes</td>
<td>Subcontract</td>
<td>A Dose-Escalation, Safety and Feasibility Study of Enteral Levetiracetam for Seizure Control in Pediatric Cerebral Malaria</td>
<td>Jones, Nicole; Taylor, Terrie; Seydel, Karl; Postels, Douglas; Gardiner, Joseph</td>
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<tr>
<td>USDA; National Institute of Food and Agriculture</td>
<td>Research</td>
<td>Rural Health and Safety Education</td>
<td>Kerver, Jean; Earnesty, Dawn; Santiago, Olga</td>
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<td>Univ Boston Medical Ctr./NIH</td>
<td>U01 Cooperative Agreement</td>
<td>Neonatal Biomarkers in Extremity Preterm Babies Predict Childhood Brain Disorders</td>
<td>Lenski, Madeleine; Paneth Nigel</td>
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<td>WK Kellogg Foundation</td>
<td>Research</td>
<td>Breastfeeding Support for Low-Income Mothers</td>
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<td>NIH: National Institute on Drug Abuse</td>
<td>KO1 Career Award</td>
<td>Gene-Gene/Gene-Environment Interactions Associated with Nicotine Dependence</td>
<td>Lu, Qing(Pi); Anthony, James; Breslau, Naomi; Friderici, Karen</td>
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<td>Maternal Physical Activity during Pregnancy, Lipid Levels and Birth Weight</td>
<td>Mudd, Lanay; Gardiner, Joseph; Kerver, Jean; Pivarnik, James</td>
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<tr>
<td>Organization</td>
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<td>A High-dimensional Statistical Genetic Approach for Family-based Orofacial Clefts Risk Prediction</td>
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<td>MDCH</td>
<td>Research</td>
<td>Research</td>
<td>Assessment of Cost Containment &amp; Efficacy of Services for Medicare/Medicaid Eligible Population of Michigan</td>
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<td>Research Foundation of Cerebral Palsy Alliance</td>
<td>Research</td>
<td>Integrated Proteomics and Genomics Analysis of Newborn Blood Spots</td>
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<td>Univ MI/Univ Research Corridor</td>
<td>Research</td>
<td>Distinguished Research Award for Cerebral Palsy Research</td>
<td>Paneth, Nigel</td>
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<td>Univ MI/Univ Research Corridor</td>
<td>Research</td>
<td>The Michigan Bloodspot Environmental Epidemiology Project</td>
<td>Paneth, Nigel</td>
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<td>Life Course Energy Balance and Breast Cancer Risk in Black/White Women Under 50</td>
<td>Pathak, Dorothy; Houang, Richard; Olson, Lawrence</td>
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<td>Veterans Administration</td>
<td>Research</td>
<td>Quality of Care Veterans with TIA and Minor Stroke</td>
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<td>Agency for Healthcare Research and Quality</td>
<td>R18 Research Demonstration and Dissemination Grants</td>
<td>Demonstration of a Community System of Care for Medicaid Insured Pregnant Women</td>
<td>Roman, Leeanne; Meghea, Cristian; Holmes Rovner, Margaret; Gardiner, Joseph; Luo, Zhehui</td>
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<td>Amana Pharmaceuticals Corp</td>
<td>Research</td>
<td>General Research</td>
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<td>NIH</td>
<td>R01</td>
<td>Home-Based Symptom Management via Reflexology for Advanced Breast Cancer Patients</td>
<td>Wyatt, Gwen; Sikorskii, Alla; Holmstrom, Amanda; Luo, Zhehui</td>
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</table>
Approximately 80% of our funding was derived from research projects, 8% was through Training Grants and 12% through Career Development Grants (Figure 4).
WE’RE A WISE INVESTMENT FOR MICHIGAN

$2,466,487
GENERAL FUND

$390,480
TUITION FROM OUT OF STATE STUDENTS

Approximation based on student place of origin

$6,690,478
GRANT FUNDS BROUGHT INTO MICHIGAN*

Excludes funds paid to subcontractors outside of Michigan and grants from Michigan-based funding sources

$7,183,609
TOTAL FUNDS BROUGHT TO MICHIGAN

* Our department faculty participated as lead investigator or co-investigator in grants totaling this amount.
GRANTS SUPPORTING DEVELOPMENT/TRAINING OF FACULTY, STUDENTS & POSTDOCTORAL FELLOWS

NIDA R25 James C. Anthony, PhD (PI)
National Hispanic Science Network Early Stage Career Mentoring for NIDA Research (ESCM-NIDA)
Supports 7 ESCM Fellows.

NIDA D43 James C. Anthony, PhD (PI)
NIDA Epidemiology Training Program: ICOHRTA
This training grant links faculty and students of Michigan State University with those at Universidad Peruana Cayetano Heredia in Lima, Peru, with participation of faculty of the Johns Hopkins Bloomberg School of Public Health

NIDA T32 James C. Anthony, PhD (PI)
NIDA Drug Dependence Epidemiology Training - Michigan State University
Supports 6 trainee positions—3 Predoctoral and 3 Postdoctoral Fellowships

NIH K12 Claudia Holzman, DVM, MPH, PhD (PI)
Building Interdisciplinary Research Careers in Women’s Health (BIRCWH) at Michigan State University
The BIRCWH program is designed to increase the number and diversity of investigators in women’s health. This award supports 75% effort of four MSU Assistant Professors.

NIH T32 Nigel Paneth, MD MPH (PI)
Training Program in Perinatal Epidemiology
Supports 6 trainee positions—2 Predoctoral and 4 Postdoctoral Fellowships
STUDENTS & POSTDOCTORAL FELLOWS
(JULY 2013 - JUNE 2014)

- EPI Masters Program: 23
- EPI PhD Program: 22
- Postdoctoral Fellows: 8
- Specialization in Global Public Health and Epidemiology: 43
Our department faculty have been engaged in service to the profession and communities at-large. Examples include:

**STUDY SECTIONS AND REVIEW PANELS**

- NIH Directors Early Independence Award Final Evaluation Board (DP5 Mechanism)
- IOM panel on Place of Birth
- Review panel for all NICHD T32 training grants
- Michigan Nutrition Network at the Michigan Fitness Foundation
  - Review Panel for Award of Supplemental Nutrition Assistance Program Education (SNAP-Ed) Partner Projects

**Professional Organizations; Administrative Role**

- Executive Steering Committee, National Hispanic Science Network
- Board of Directors of the Lansing Latino Health Alliance
- Steering Committee, ASA Biopharmaceutical Section
- Ingham County (MI) Board of Health
- Program Chair-Elect, 2015, Section on Mental Health Statistics, ASA
- Scientific Program Committee, International Federation on Psychiatric Epidemiology
- Scientific Program Committee, World Psychiatric Association Section on Epidemiology & Public Health
- International Committee, College on Problems of Drug Dependence
- American Stroke Association, Get With the Guidelines Executive Steering Committee
- American Stroke Association, Get With the Guidelines- Database Committee
- American Stroke Association, Get With the Guidelines-Stroke Scientific Sub-committee
- Executive Planning Committee for the American Heart Association Quality Care, Outcomes and Research (QCOR) meeting
- VA Stroke QUERI (Quality Enhancement Research Initiative) Executive Committee Member
- National Scientific Advisory Committee, March of Dimes Foundation
**Review and Advisory Boards**

- Reviewer, IOM report on design of the National Children’s Study
- Reviewer, NIH/CSR Early Career Reviewer Program
- MDCH Asthma Evaluation Committee (LOS)
- MDCH Asthma Epidemiology and Surveillance Committee
- Statistical Advisory Board, PLOS ONE
- NIH/NIDA National Addiction and HIV Data Archive Program Advisory Council
- Medicare Evidence Development & Coverage Advisory Committee (MEDCAC), CMS
- External Advisory Committee, University of Pennsylvania MPH Program
- Scientific Advisory Board, Burroughs Welcome Fund Research Consortium on Preterm Birth
- Scientific Advisory Panel for the Michigan Birth Defects Registry
- National Advisory Board, NIH/NIDA National Diversity Scholars Mentoring Program

**Community Education**

- Cancer prevention and nutrition lecture for Trinity African Methodist Episcopal Church
- The Michigan Bulletin, writing their monthly “Health Notices” section
- Health, science and research seminars to The Middle School Girls Club at Shabazz Academy and the Z Club at Everett High School
- Division C Coordinator for the Disease Detectives event, Michigan Science Olympiad State Tournament

**Consultations**

- American Heart Association-Get With the Guidelines quality improvement programs
- MSU Extension Health and Nutrition Institute

**Committees**

- CHM Cardiology Fellows
- Mentorship Committee, Geisinger Health Systems
- Data Safety Monitoring Committee, Janssen Pharmaceuticals, Inc.
- Data Safety Monitoring Committee, Amgen, Inc.
- PhD adjudication committee, Pal Suren, University of Oslo, Faculty of Medicine
- Program committee member, 2014 Uncertainty in AI Conference (UAI)
- Board of Directors, Biomedical Sciences Career Program, Harvard Medical School
- Priority Health (HMO), Technology Assessment Committee
- Graduate Summer Session in Epidemiology, Planning Committee Member, University of Michigan
- International Conference on Aging in the Americas
EDITORIAL BOARDS

- Annals of Biometrics and Biostatistics, Editor-in-Chief
- Developmental Medicine Children Neurology
- Drug and Alcohol Dependence
- Frontiers in Applied Genetic Epidemiology
- Frontiers in Genetic Architecture
- JAMA Psychiatry
- Journal of Aging and Health
- Journal of Statistics and Applications
- Pediatric Research
- Psychological Medicine
- Substance Use and Misuse

WORKSHOPS

- Survival Analysis: Overview of Parametric, Nonparametric and Semiparametric approaches and New Developments. 2013. FDA/Industry Workshop
- Madonna University, Clinical Epidemiology and Population Health Workshop
- Ferris State University; NIH Area R15 Mechanism
FACULTY
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<th>FACULTY</th>
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<tr>
<td><strong>JAMES C. (Jim) ANTHONY, MSc, PhD / Professor of Epidemiology and Biostatistics</strong></td>
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<td>![Profile Picture]</td>
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<td><strong>DAVID A. BARONDESS, PhD / Assistant Professor of Epidemiology and Biostatistics</strong></td>
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<td><strong>NAOMI BRESLAU, PhD / Professor of Epidemiology and Biostatistics</strong></td>
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<td><strong>WENJIANG FU, PhD / Associate Professor of Epidemiology and Biostatistics</strong></td>
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<tr>
<td><strong>JOSEPH C GARDINER, PhD / Professor of Epidemiology and Biostatistics</strong></td>
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</table>
HECTOR GONZÁLEZ, PhD / Associate Professor of Epidemiology and Biostatistics

Dr. González is a licensed clinical psychologist and neuropsychologist, and his scholarly works are informed by his clinical experiences and life as an ethnic minority in the United States. As such, his clinical research emphases are on neuropsychiatric disorders. His work has focused on Major Depressive Disorders and Neurocognitive Disorders (Alzheimer’s disease and dementias). He has also defined and extensively examined depression and cancer healthcare inequalities among African Americans, Latinos, and American Indians.

CLAUDIA HOLZMAN, DVM, MPH, PhD / Dept. Chair, Professor of Epidemiology and Biostatistics

Dr. Holzman’s research focuses on pregnancy outcomes, women’s health, and health disparities. She is Principal Investigator (PI) of an NIH-funded, longitudinal study, the Pregnancy Outcomes and Community Health (POUCH) Study, which began by enrolling 3,019 women at mid-pregnancy from 52 clinics in 5 Michigan communities. Dr. Holzman is also PI for a K-12 award, Building Interdisciplinary Careers in Women’s Health (BIRCWH), and co-investigator for a T-32 Perinatal Epidemiology training grant.

JEAN KERVER, PhD, MSc, RD / Assistant Professor of Epidemiology and Biostatistics

Dr. Kerver’s primary research goals are to 1) understand the nutritional determinants of health using nutritional and epidemiologic methods and 2) find ways to translate that understanding into public health programming—with a special focus on maternal and child health. Dr. Kerver serves as the Lead Nutrition Scholar for MSU Extension where she provides epidemiologic expertise for statewide nutrition programming.

CHENXI LI, PhD / Assistant Professor of Epidemiology and Biostatistics

Dr Li’s primary research works focus on statistical analysis of interval-censored failure time data and multivariate survival analysis including competing risks analysis, frailty models and multi-state models. His research interests also include quantile regression, longitudinal data analysis and statistical genetics. Beside methodological research in biostatistics, Dr Li has been collaborating with medical researchers at MSU in grant applications, data analyses and manuscript writing.

QING LU, PhD / Assistant Professor of Epidemiology and Biostatistics

Dr. Lu has been actively involved in statistical genetics research and training, and has two NIH-funded lines of research. One area of research is the development and application of new statistical methods for genetic association analysis (e.g., gene-gene interaction analysis). In parallel with this line of research, Dr. Lu has also developed statistical methods for designing and evaluating risk prediction models. In addition to his research, he is also involved in three NIH T32 programs as training faculty.
ZHEHUI LUO, MS, PhD / Assistant Professor of Epidemiology and Biostatistics

Dr. Luo joined the Department as a tenure-track assistant professor in 2009. With a Ph.D. in economics and an M.S. in statistics, Dr. Luo has extensive experience in epidemiological studies and health services research, collaborating with a broad range of investigators in a multidisciplinary environment. Her primary research interest is to develop new econometric and statistical methodologies for heterogeneous treatment effects in comparative effectiveness research with observational data.

CLAIREE MARGERISON-ZILKO, PhD / Assistant Professor of Epidemiology and Biostatistics

Claire Margerison-Zilko is an Assistant Professor in the Department of Epidemiology and Biostatistics. Dr. Margerison-Zilko’s research examines the relationships between macro- and individual-level social and economic factors and maternal, infant, and child health. Her work focuses on understanding the determinants of racial/ethnic and socioeconomic disparities in perinatal and early life health, drawing on theory and methods from across disciplines.

JANET OSUCH, MD / Professor of Epidemiology and Biostatistics

Janet Rose Osuch (M.D., 1979, Michigan State University (MSU); M.S. 2000, MSU) is Professor of Surgery and Epidemiology at MSU and has served as Assistant Dean of Preclinical Curriculum in the College of Human Medicine since 2006. She currently practices breast cancer risk counseling and conducts research in environmental epidemiology. She is the author of several journal articles on breast cancer, topics in medical education, and the health effects of in utero DDE and PCB exposure.

DOROTHY PATHAK, PhD, MS / Professor of Epidemiology and Biostatistics

Dr. Pathak has been involved in epidemiologic and biostatistical research for the past 35 years. The principal focus of her research is breast cancer etiology and prevention. She is the PI of an NCI-funded international study of breast cancer in women of Polish ancestry evaluating contributions of nutritional exposures to breast cancer risk. She has published about the dual effect of pregnancy on breast cancer risk, the cross-over in breast cancer incidence for young Black and White women, as well as on the serotonergic mediation of estrogen-related physiology and pathology.

NIGEL PANETH, MD, MPH / Professor of Epidemiology and Biostatistics

Dr. Paneth studies childhood neurodevelopmental handicap in relation to exposures in pregnancy and the perinatal period. He leads a case-control study of cerebral palsy examining gene expression in archived newborn blood spots. He has assembled pregnancy cohorts in Michigan and Jamaica with archived biological material to examine early influences on disease or development. He teaches 3 courses – Introductory Epidemiology, Perinatal Epidemiology, and Research Proposal Development (EPI 935).
JAMES M. PIVARNIK, PhD / Professor of Kinesiology and Epidemiology and Biostatistics

James Pivarnik is a professor of Kinesiology and Epidemiology & Biostatistics and Director of the Center for Physical Activity and Health. As an exercise physiologist and epidemiologist, he studies the exercise responses of females, particularly during pregnancy, and children, both healthy and those with chronic diseases. His focus is on the role of physical activity in reducing the risk factors for chronic disease development (e.g., cardiovascular disease) and morbidity and mortality.

MAT REEVES, BVSc, PhD / Associate Professor of Epidemiology and Biostatistics

Mathew Reeves academic interest in chronic disease epidemiology stems from a desire to blend the quantitative aspects of epidemiology and biostatistics with practical aspects of disease prevention and public health. He has a broad range of research interests but his primary focus is on health services research in the area of hospital based acute stroke care. He teaches cardiovascular disease epidemiology to graduate students and Evidence-Based Medicine to first and second year medical students.

MAHDI SAEED, DVM, MPH, PhD / Prof Large Animal Sciences, Epidemiology & Biostatistics

Mahdi Saeed is a professor of Epidemiology and Infectious Diseases with a joint appointment in large-animal clinical sciences in the College of Veterinary Medicine and Epidemiology in the College of Human Medicine and the National Food Safety Center at Michigan State University. His main areas of research are the causes and prevention of food borne illnesses. Dr. Saeed designed and has been teaching LCS 830 (Public Health Impact of Foodborne Diseases), and EPI 813 (Outbreak Investigation).

NICOLE TALGE, PhD / Assistant Professor of Epidemiology and Biostatistics

Nicole Talge is a developmental psychologist investigating links between pregnancy health and the development of childhood cognitive and socio-emotional problems. Her most recent efforts investigate the antecedents and consequences associated with global markers of gestational health (e.g., birth weight for gestational age; preterm birth). A major area of interest involves understanding the source(s) of variability in childhood behavioral outcomes following exposure to perinatal health risks.

DAVID TODEM, MSPH, PhD / Associate Professor of Epidemiology and Biostatistics

Dr Todem’s current line of research in methods evolve around the following topics: 1) Models for longitudinal, clustered and functional data; 2) Inferential techniques for non-identifiable models in the context of non-random missing data paradigm; and 3)Testing procedures for evaluating mixture models. Primary applications are in the area of Alzheimer’s disease, Cancer, and Dental Caries research.
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<th>Name</th>
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<tbody>
<tr>
<td>Ellen Velie, PhD, MPH</td>
<td>Associate Professor of Epidemiology and Biostatistics</td>
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</table>

Dr. Velie obtained her BA from Harvard and Ph.D in Epidemiology from the University of California Berkeley. She was a Cancer Prevention Fellow at the National Cancer Institute before joining the faculty at MSU in 2000. Dr. Velie’s research focuses on life course sociocultural and early life nutritional risk factors for obesity and breast cancer. She is the PI for a large $14 million NIH study entitled, ‘Life course course energy balance and breast cancer risk in young Black/White women’ (YWHHS).

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<tr>
<td>Elizabeth (Betsy) Wasilevich</td>
<td>Asst Professor of Epidemiology and Biostatistics</td>
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Dr. Wasilevich’s research examines health services for the diagnosis and management of chronic disease. Her work focuses on understanding the determinants of high quality and efficient health care during treatment, survivorship, and end of life periods for persons with cancer. She also leads studies to identify opportunities to improve clinical asthma management and emergency department care.

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<tr>
<td>Julie Wirth, PhD</td>
<td>Assistant Professor of Epidemiology and Biostatistics</td>
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Dr. Wirth’s research has focused on the effects of exposure to environmental contaminants on male infertility and the modification of this relationship by common genetic variants. I’m also interested in the effects of these chemicals on neurodevelopmental problems such as autism. Another interest is how these chemicals affect development of the infant gut microbiome and early life development of allergies.

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<tr>
<td>Madeleine Lenksi, MS</td>
<td>Research Specialist</td>
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Madeleine Lenksi has been a Research Specialist at MSU for over 15 years, as both study manager and PI for perinatal and cerebral palsy research studies, both international and domestic. These projects have largely focused on etiology and outcomes of very premature births and of cerebral palsy, including follow-up at preschool and school age.

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<tr>
<td>Jamil B. Scott, PhD, MPH</td>
<td>Research</td>
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</table>

Dr. Scott joined the faculty in 2013. Her primary research interests have centered on the potential diseases related to vitamin D deficiency, such as colorectal cancer, hypertension and adverse birth outcomes, especially among African-Americans. Completing her graduate work in cell and developmental biology, Dr. Scott takes a special interest in understanding the underlying molecular mechanisms of disease and how they can be used to inform disease outcomes on the population level.
STAFF
<table>
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<th>Staff Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>NANCY BIEBER</td>
<td>Graduate Secretary</td>
</tr>
<tr>
<td>ALI FARRA</td>
<td>Accounting</td>
</tr>
<tr>
<td>JILL HAMILTON</td>
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</tr>
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<td>TINA MUNRO</td>
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<tr>
<td>MARY ANN VIGIL</td>
<td>Accounting</td>
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<tr>
<td>LINDA WALTERS</td>
<td>Information Technology</td>
</tr>
<tr>
<td>MARK WATRICH</td>
<td>Information Technology</td>
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FACULTY PUBLICATIONS

2013-2014
Faculty names appear in bold print and are arranged alphabetically by first author. Undergraduate students, graduate students and postdoctoral fellows working closely with department faculty within the last 5 years are indicated by the following symbol *.


