Department of Epidemiology and Biostatistics
Michigan State University College of Human Medicine

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

- 1990 – 1995
  - Department of Epidemiology

- 1994
  - MS in Epidemiology

- 1997
  - Department of Epidemiology
  - 1999
    - Certificate in Epidemiology

- 2000
  - PhD in Epidemiology

- 2001
  - Specialization in Global Health and Epidemiology

- 2003 – 2008
  - Department Chair
    - James Anthony
  - Associate Chair
    - Joseph Gardiner

- 2002 – 2003
  - Interim Chair
    - Joseph Gardiner
  - Associate Chair
    - Nigel Paneth

- 2008 – 2010
  - Interim Chair
    - Joseph Gardiner
  - Associate Chair
    - Joseph Gardiner

- 2010 – 2011
  - Interim Chair
    - Mat Reeves
  - Associate Chair
    - Joseph Gardiner

- 2012 – present
  - Department Chair
    - Claudia Holtman
  - Associate Chair
    - Joseph Gardiner

Fall 2013
- MS in Biostatistics
~ The Year in Review
2012-2013 ~
Our department was awarded $7,585,218 in extramural grant funds this year. Approximately 84% of these funds were from NIH (Figure 1)

**FIGURE 1:** Breakdown of Extramural Research Funds by Source
Much of our research is collaborative and involves inter-disciplinary research teams. Over 85% of our research grants included co-investigators in other MSU departments and/or at other universities (Figure 2).

**FIGURE 2: Research Collaborations across MSU Departments and other Universities**

- 54%: With Other Universities
- 31%: Michigan State University
- 15%: Epidemiology
### List of External Grants

<table>
<thead>
<tr>
<th>Funding Agency</th>
<th>Mechanism</th>
<th>Title</th>
<th>Investigators</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATSDR</td>
<td>Subcontract</td>
<td>Health Effects of PCB Exposure From Contaminated Fish</td>
<td>Gardiner, Joseph (PI)</td>
</tr>
<tr>
<td>EPA</td>
<td>Subcontract/Project POI</td>
<td>Novel Methods to Assess Effects of Bisphenol A &amp; Phthalates on Child Development</td>
<td>Gardiner, Joseph (PI)</td>
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<tr>
<td>NIH</td>
<td>Subcontract/Project POI</td>
<td>Monoclonal Antibodies in Cancer Care: Is Underinsurance an Access Barrier?</td>
<td>Gardiner, Joseph (PI)</td>
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<tr>
<td>NIH</td>
<td>Contract</td>
<td>Michigan Alliance For National Childrens Study (Mancs)</td>
<td>Paneth, Nigel (PI), Breslau, Naomi (Co-I), Lovejoy, Stephen (Co-I)</td>
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<tr>
<td>MDCH</td>
<td></td>
<td>Michigan Stroke Registry Consultation Project</td>
<td>Reeves, Mathew (PI)</td>
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<tr>
<td>Veterans Administration</td>
<td></td>
<td>Quality of Care Veterans with TIA and Minor Stroke</td>
<td>Reeves, Mathew (PI)</td>
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<tr>
<td>NIH</td>
<td>R01</td>
<td>Life Course Energy Balance and Breast Cancer Risk in Black/White Women under 50</td>
<td>Velie, Ellen (PI), Pathak, Dorothy (Co-I), Lu, Qing, (Co-I)</td>
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<tr>
<td>NIH</td>
<td>U01 Cooperative Agreement</td>
<td>Neonatal Biomarkers in Extremity Preterm Babies Predict Childhood Brain Disorders</td>
<td>Lenski, Madeleine (PI), Paneth, Nigel (Co-I)</td>
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<tr>
<td>NIH</td>
<td>Subcontract/Project POI</td>
<td>The Collaborative Genetic Study Of Nicotine Dependence - Project No 1</td>
<td>Breslau, Naomi (PI)</td>
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<tr>
<td>NIH</td>
<td>K01 Career Award/ Senior Scientist</td>
<td>Drug Dependence In Epidemiology And Enviromics</td>
<td>Anthony, James (PI)</td>
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<tr>
<td>NIH</td>
<td>KO1 Career Award/</td>
<td>Adjusting For Non-Ignorable Missing Data In Population-Based Cancer Research</td>
<td>Todem, David (PI)</td>
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<td>MDCH</td>
<td></td>
<td>Climate Change MSU Support</td>
<td>Wirth, Julia (PI)</td>
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<tr>
<td>MDCH</td>
<td></td>
<td>Cancer Cluster</td>
<td>Wirth, Julia (PI)</td>
</tr>
<tr>
<td>MDCH</td>
<td></td>
<td>GLRI Biomonitoring</td>
<td>Wirth, Julia (PI), Gardiner, Joseph (Co-I)</td>
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<tr>
<td>NIH</td>
<td>R03</td>
<td>A High-dimensional Statistical Genetic Approach for Family-based Orofacial Clefts Risk Prediction</td>
<td>Lu, Qing (PI)</td>
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<tr>
<td>NIH</td>
<td>K01 Career Award</td>
<td>Gene-Gene/Gene-Environment Interactions Associated with Nicotine Dependence</td>
<td>Lu, Qing (PI), Anthony, James (Co-I), Breslau, Naomi (Co-I)</td>
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<tr>
<td>AHRQ</td>
<td>R18 Research Demonstration and Dissemination</td>
<td>Demonstration of a Community System of Care for Medicaid Insured Pregnant Women</td>
<td>Roman, Leeanne (PI), Gardiner, Joseph (Co-I), Luo, Zhehui (Co-I)</td>
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<tr>
<td>NIH</td>
<td>R01</td>
<td>Comparative Effectiveness of Primary Care Practice Transformation by Two Insurers</td>
<td>Maloun, Rebecca (PI), Gardiner, Joseph (Co-I), Luo, Zhehui (Co-I)</td>
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<tr>
<td>NIH</td>
<td>R01</td>
<td>Home-Based Symptom Management via Reflexology for Advanced Breast Cancer Patients</td>
<td>Wyatt, Gwen (PI), Luo, Zhehui (Co-I)</td>
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<tr>
<td>BCBS Foundation</td>
<td></td>
<td>The Prehospital Acute Stroke Surveillance System (PASSS)</td>
<td>Oostema, John (PI), Reeves, Mathew (Co-I)</td>
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<tr>
<td>NIH</td>
<td>R01</td>
<td>Preterm Delivery and Maternal Cardiovascular Disease Risk</td>
<td>Holzman, Claudia (PI), Senagore, Patricia (Co-I)</td>
</tr>
</tbody>
</table>
Approximately 12% of our funding was through Training Grants and 11% through Career Development Grants (Figure 3).

FIGURE 3: Breakdown of Research Funds by Type
We’re a Wise Investment for Michigan (2012-2013)

$2,120,247
General Fund

$269,188
Tuition from out of state students

$6,544,948
Grant Funds brought into Michigan

$6,853,915
Total funds brought to Michigan

Approximation based on student place of origin

Excludes funds paid to subcontractors outside of Michigan and grants from Michigan-based funding sources
Grants Supporting Development/Training of Faculty, Students and Postdoctoral Fellows

NIDA R25 James Anthony, PhD (PI)
National Hispanic Science Network Early Stage Career Mentoring for NIDA Research (ESCM-NIDA)
Supports 6 ESCM Fellows.

NIDA D43 James 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 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, D.V.M., M.P.H., Ph.D. (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 and Postdoctoral Fellows (July 2012 -June 2013)

- EPI Masters Program: 22
- EPI PHD Program: 26
- Postdoctoral Fellows: 7
- Specialization in Global Public Health and Epidemiology: 33
Service, Outreach and Engagement Beyond Michigan State University

Our faculty members have been engaged in service to the profession and communities at-large. Examples include:

Study Sections and Review Panels

- National Institute of Health, Center for Scientific Review, Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section
- National Institute of Health, Center for Scientific Review, Scientific Review Group to review NICHD’s institutional T32 training award applications
- Institute of Medicine panel addressing the issue of out-of-hospital and home births
- Editorial Review Panel for the NIH Office of the Director’s “Early Independence Award”
- External Review of Division of Epidemiology, Statistics, and Prevention Research, National Institute of Child Health and Development.
- Diabetes and physical activity study section review, June, 2013

Professional Organizations

- President of the American College of Sports Medicine (ACSM) Foundation
- Member, Executive Steering Committee, National Hispanic Science Network

Review and Advisory Boards

- Science Advisory Board to the President’s Council on Fitness, Sports, and Nutrition
- Scientific Advisory Board, the Burroughs Welcome Fund Research Consortium on Preterm Birth.
- Scientific Advisory Panel for the Michigan Birth Defects Registry, Michigan Department of Community Health
- National Scientific Advisory Committee, The March of Dimes Foundation

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
- Through MSU Extension, epidemiological expertise for statewide nutrition and physical activity programming
- Division C Coordinator for the Disease Detectives event, Michigan Science Olympiad State Tournament
- Health Fair in Chicago for the Polish community
Patient Education

- Cerebral Palsy conference (MSU, U of M, WSU) invited participation by community members with cerebral palsy and their families

Consultations

- Hurley Hospital, FLINT, MICHIGAN: A Study of Red Blood Distribution Width: a predictor of Adverse Cardiovascular Outcomes in Elderly Patients following Elective Non-Cardiac Surgery
- Michigan Hospital Association-projects designed to improve the quality of care and outcomes of hospitalized patients in Michigan.
- American Heart Association-Get With the Guidelines quality improvement programs

Committees

- CPDD Education, Outreach and Public Policy Committee

Editorial Boards

- Journal of Aging and Health.
- Developmental Medicine Child Neurology
- Pediatric Exercise Science
- International Journal for Methods of Psychiatric Research
- Drug and Alcohol Dependence
- Substance Use and Misuse
- Journal of Veterinary Medicine and Research
- International Journal of Applied Poultry Research
- Journal of Veterinary Reviews and Opinions

Workshops

- NIDA workshops to increase PI-level participation of disadvantaged minority investigators
- Institute of Medicine Workshop on Place of Birth
~ Faculty ~
### James C. (Jim) Anthony, M.Sc., Ph.D. / Professor of Epidemiology and Biostatistics

Winner of multiple awards for mentoring of new and early stage investigators, Jim also is recognized for high impact work in neuropsychiatry and the behavioral & social sciences at their intersections with epidemiology. His work yields increasingly definitive evidence on suspected hazards attributed to tobacco, alcohol, and internationally regulated drugs such as cannabis, cocaine, and the opioids, and their prevention. His work on Alzheimer’s type and other dementias also is highly cited.

### David A. Barondess, Ph.D. / Assistant Professor of Epidemiology and Biostatistics

Dr. Barondess’ research is centered on the intersection of drug dependence epidemiology and skeletal health and disease. A main interest is exploring ethnic disparities, gene-environment interactions, ageing, and socioeconomic factors vis-à-vis patterns of drug/polydrug use, including tobacco-alcohol exposures. This drug-drug combination focus underpins a longer-term research interest in the epidemiology of, and the variability in, patterns of adolescent growth and development.

### Naomi Breslau Ph.D. / Professor of Epidemiology and Biostatistics

Dr. Breslau is a highly cited psychiatric epidemiologist and Ph.D.-trained sociologist who makes major contributions and scientific advances in the epidemiological study of numerous psychiatric conditions and behavioral disturbances, most prominently post-traumatic stress disorder and tobacco dependence. She also has been an important contributor of epidemiological evidence on long-term effects of low birth weight, with respect to problem-solving capacities as disclosed by intelligence and other cognitive testing.

### Wenjiang Fu, Ph.D / Associate Professor of Epidemiology and Biostatistics

Dr. Fu is a biostatistician with expertise in a wide range of statistical modeling and applications to biomedical research, computational and social sciences. He has been leading research to solve a long term unsettled age-period-cohort analysis of incidence and mortality rates of chronic diseases. His work in variable selection via the LASSO has been well recognized. He has developed numerous methods in genome research and has been granted a US patent in microarray technology.

### Joseph C Gardiner Ph.D. / Professor of Epidemiology and Biostatistics

Dr. Gardiner has been a faculty member at MSU since 1978 where his primary research interests are in outcomes research, survival analysis and cost-effectiveness analysis. He has published widely on methodological aspects of statistics as well as in many applied areas. Dr. Gardiner is a Fellow of the American Statistical Association, an Elected Member of the International Statistical Institute and recipient of the Distinguished Faculty Award from MSU in 2002.
Claudia Holzman, DVM, MPH, Ph.D. / Dept. Chair, Professor of Epidemiology & 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, Ph.D., 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, Ph.D. / 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, Ph.D. / 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, M.S., Ph.D. / 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.
Janet Osuch, M.D. / 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, Ph.D., M.S. / 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, M.D., 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, Ph.D. / 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, B.V.Sc., Ph.D. / 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, Ph.D. / 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, Ph.D. / 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, Ph.D. / 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.

Ellen Velie, Ph.D., MPH / Associate Professor of Epidemiology and Biostatistics

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).

Julie Wirth, Ph.D. / Assistant Professor of Epidemiology and Biostatistics

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.
### NEW FACULTY 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institutional Role</th>
</tr>
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<tbody>
<tr>
<td><strong>Hector Gonzalez, Ph.D.</strong></td>
<td><strong>Associate Professor of Epidemiology and Biostatistics</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Claire Margerison-Zilko, Ph.D.</strong></td>
<td><strong>Assistant Professor of Epidemiology and Biostatistics</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Hao Wang, Ph.D.</strong></td>
<td><strong>Assistant Professor of Epidemiology and Biostatistics</strong></td>
<td>Hao Wang is an Assistant Professor of Biostatistics in the Department of Epidemiology and Biostatistics. His research interests include graphical and network models, covariance matrix estimation, Bayesian spatial and environmental statistics, predictive models, and applications in bioinformatics, epidemiology, and social sciences.</td>
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<td><strong>Elizabeth (Betsy) Wasilevich, Ph.D., MPH</strong></td>
<td><strong>Assistant Professor of Epidemiology and Biostatistics</strong></td>
<td>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.</td>
</tr>
<tr>
<td>SPECIALISTS</td>
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<tr>
<td>Madeleine Lenski,  / Research</td>
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</table>

Madeleine Lenski 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.

| Jamil B. Scott, Ph.D., M.P.H. / Research |

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.
~Department Staff~
# DEPARTMENT STAFF

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td><img src="image1" alt="Nancy Bieber" /></td>
<td>Nancy Bieber / Graduate Secretary</td>
</tr>
<tr>
<td><img src="image2" alt="Ali Farra" /></td>
<td>Ali Farra / Accounting</td>
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<tr>
<td><img src="image3" alt="Jill Hamilton" /></td>
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</tr>
<tr>
<td><img src="image7" alt="Mark Watrich" /></td>
<td>Mark Watrich / Information Technology</td>
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Faculty Publications over the previous year (2012-13) -
Department Faculty - Arranged alphabetically by first author

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


82. Paneth N. Restoring science to the National Children's Study. JAMA. 2013 May 1; 309(17):1775-1776.


