

## *Curriculum Vitae*

### **Wilfried J.J. Karmaus, MD, Dr. med., MPH**

Professor, Division of Epidemiology, Biostatistics, and Environmental Health  
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Citizenship: German  
Permanent residency: United States of America  
Married, two children (32 and 26 years of age)

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### **PROFESSIONAL POSITIONS**

- 2013- Professor in the Division of Epidemiology, Biostatistics, and Environmental Health, School of Public Health, University of Memphis
- 2007-2011 Graduate Director, Epidemiology
- 2006-2011 Member of two National Institutes of Health's Study Section (CASE, then IRAP)
- 2005-2012 Professor, Department of Epidemiology and Biostatistics, Arnold School of Public Health, tenured June 2008
- 1998 - 2005 Associate Professor, Department of Epidemiology, Michigan State University, East Lansing, Michigan, tenured 2003
- 1990 - 1998 Head of the Department for Epidemiology, NORDIG Institute for Health Research and Prevention (non-profit incorporation)
- 1989 - 1990 Research Assistant Professor at the Institute for Medical Sociology at the University-Hospital Eppendorf, Hamburg
- 1988-1989 Senior Fellow at the Science Center Berlin, Working group: 'Health Risk and Preventive Policies'
- 1986-1988 Assistant Professor at the Institute for Medical Sociology at the University-Hospital Eppendorf, Hamburg
- 1985-1986 Post-graduate Training in Epidemiology, School of Public Health, Chapel Hill, North Carolina
- 1982-1985 Assistant Professor at the Institute for Medical Sociology at the University-Hospital Eppendorf, Hamburg
- 1978-1982 Research Fellow, Institute of Medical Sociology / University of Hamburg
- 1977 Internship in Medicine

**EDUCATION**

- 1985 Master of Public Health, University of North Carolina at Chapel Hill  
 1981 Doctor of Medicine (Dr.med.), University of Hamburg (grade: very good)  
 1978 Registration as a physician, Board of Health  
 1976 Medical Examination Certificate; Board of Health (grade: very good)  
 1969 Matriculation certificate: Albrecht-Thaer-Gymnasium in Hamburg

**PRINCIPAL AND CO-INVESTIGATOR IN RESEARCH PROJECTS**Currently funded projects

- R01AI121226 (Drs. Hongmei Zhang, John Holloway) 1/1/2016-12/31/2020  
 NIH/NIAID  
 Does epigenetic methylation explain the gender-switch in adolescent asthma?  
 We investigate whether DNA methylation explains the change in asthma (symptoms, atopy, lung function) between 10 and 18 years. Replication will be tested in another British cohort (ALSPAC).  
 Role: CO-Investigator.
- R01HL132321-01A1 (Dr. Wilfried Karmaus) 9/1/2016-8/31/2021  
 NIH/NHLBI  
 Effect of prenatal compounds on adult lung function via neonatal DNAmethylation  
 In the F1 and F2 generations of the Isle of Wight birth cohort, we investigate metabolite, nutrients, and toxins in maternal serum, DNA methylation in newborn blood, and lung function at age 10, 18, and 26 years of age. Role: PI
- R03HD092776 (Dr. Wilfried Karmaus) 8/5/2017-07/31/2019  
 NIH/NICHHD  
 Epigenetic characterization of pubertal transitions  
 To improve our mechanistic understanding, the proposed secondary analysis of existing data will address two aims: First, we will use whole epigenome DNA methylation data collected at birth to predict ages of onset of pubertal events (439 boys and 425 girls). Second, we will identify post-pubertal DNAm changes.
- R03AI128227 (Ray, Meredith) 06/01/2018-05/31/2020  
 NIH/NIAID  
 Joint patterns of multi-genetic/epigenetic factors via non-parametric clustering and their association with allergic disease  
 This project aims to incorporate genetic and epigenetic data in concert using a novel statistical approaches to identify patterns associated with risk of eczema.

Past projects funded in the United State of America

- 2011-2015 Transgenerational epigenetic inheritance of allergy in a multigenerational cohort  
 National Institute of Allergy and Infectious Diseases 10% all years  
 PI Wilfried Karmaus, 1R01AI091905-01
- 2010-2015 Long-Term Lung Health After Exposure to Chlorine Gas  
 National Institute of Environmental Health Sciences. 10% all years  
 PI: Erik Svendsen, 1R01ES015532-01A1
- 2013-2015 Phenomics: Joint clustering to associate changes in allergy and asthma over time

	National Institute of Allergy and Infectious Diseases PI: Hongmei Zhang, 1R21AI099367-02	10% all years
2007-2013	Organochlorine and Gene Expression of Sex Steroids in a Multigenerational Cohort Agency for Toxic Substances and Disease Registry (ATSDR) PI: Dr. Janet Osuch, Michigan State University Role: PI of the subcontract	5% all years
2007-2011	Epidemiology of asthma: risk & prognosis in a cohort from birth to adolescence National Heart, Lung, and Blood Institute PI: Dr. Syed Hasan Arshad, Isle of Wight, England, 1 R01 HL082925-01A2 Role: Co-Investigator	
2005-2011	Genetic & epidemiologic cohort study of asthma and allergy. National Heart, Lung, and Blood Institute PI: Dr. Susan Ewerts, 1R01AI061471-01A1 (no cost extension) Role: Co-Investigator	
2008-2010	The influence of gender on molecular signatures of fibrotic lung disease National Heart, Lung, and Blood Institute MPI: Dr. Tara Sabo-Attwood and Hongmei Zhang, 1 R03 HL 095429-01	
2007-2011	Immune constituents and fatty acids in breast milk and their association with childhood infections and allergies The THRASHER RESEARCH FUND PI: Dr. Wilfried Karmaus	10%
2008-2011	Immune deficiencies and infectious and allergic manifestations in children occurring after the Chernobyl accident CRDF U.S. CIVILIAN RESEARCH & DEVELOPMENT FOUNDATION PI: Dr. Wilfried Karmaus	0%
2010-2011	Multiple Modes of Infant Feeding & Trajectories Influencing Infant Health Centers of Disease Control Dr. Wilfried Karmaus, HRSA-10-006	10%
2009-2011	Maternal Allergy, Breastfeeding and Allergic Disease in Early Childhood Undergraduate student: Jessica Burch. Magellan Scholar Program, Intramural Program	0%
2003-2007	Interdisciplinary Conference on Pregnancy & Health of Women and Children USC Research Council, Small Grant Program PI: Dr. Anthony Gregg Role: Co-PI	
2003-2007	Biomarkers for the association of asthma, atopy and pre-and perinatal exposure to halogenated organic compounds. Environmental Protection Agency (R830825-01-0) PI: Dr. Wilfried Karmaus	
2003-2007	Analyses of participant's data in the Female Offspring Cohort study Michigan State University and ATSDR PI: Wilfried Karmaus	
2007	Analysis of data of the Offspring Sex Steroid Metabolism project at Michigan State University PI: Dr. Janet Rose Osuch after Dr. Karmaus left Michigan State University	

- Role: Consultant and Co-Investigator
- 2003- 2007 Exposure to polybrominated diphenyl ethers (PBDE) and hydroxylated polychlorinated biphenyls (HO-PCB) in breast milk samples from Michigan fish eaters and in fish samples.  
Michigan Great Lakes Protection Fund,  
PI: Wilfried Karmaus
- 2004-2005 Organochlorines and sex steroids in two Michigan cohorts. Agency for Toxic Substance & Disease Registry (Grant 1R01TS000007/01)  
PI: Dr. Wilfried Karmaus
- 2004-2005 Protective immune constituents and pathogenic toxicants in breast milk and the risk of allergy, atopic eczema, and asthma in childhood.  
The Gerber Foundation  
PI: Dr. Wilfried Karmaus
- 2001-2005 “Training and Research in Environmental Health – The Balkans” (TREHB) Fogarty International Center, NIH, USA, Grant 5 D43 TW00641-07,  
PI: Dr. Evangelos Petropoulos.  
Role: Co-Investigator
- 2001- 2004 Fish eating and pregnancy: A multiracial western Michigan study,  
Agency for Toxic Substance & Disease Registry,  
PI: Wilfried Karmaus
- 2001-2004 Health Risks from Consumption of Great Lakes Fish: Variations of Mercury Body Burden During Pregnancy, Agency for Toxic Substance & Disease Registry,  
PI: Dr. Lawrence Fischer  
Role: Co-Investigator
- 2001-2002 Michigan Department of Community Health Asthma and School Nurses  
The objective of this study was to characterize the role of school nurses and whether they can support monitoring of asthma in school children.  
PI: Wilfried Karmaus
- 1998-2003 Assessing effects on human reproductive health on PCB exposure via consumption of Great Lake fish. Agency. Agency for Toxic Substances and Disease Registry Type: R01 (H75/ATH582536-04-2).  
PI: Wilfried Karmaus
- Past projects funded in Germany and Europe:
- 1997-1998 Rota-Virus Morbidity Study Germany. Epidemiologic Part and Conduction in the Centre Hamburg. Supported by Wyeth-Lederle, Münster.  
Role: Co-Investigator
- 1996-2002 Study on Prevention of Allergy in Children in Europe (SPACE). Epidemiologic Part. Cooperation with pediatric clinics in Kaunas (Lithuania), Freiburg (Germany), Vienna (Austria), Athens (Greece), Isle of Wight (England). Supported by the European Union.  
Role: Co-Investigator
- 1995-1999 Family Planing and Women’s Life Histories – Continuity and Change. Cooperation with the College of Social Education, Freiburg, Germay  
Supported by the Federal Center for Health Education of Germany.BzGA  
Role: Co-Investigator

- 1994-1998 Environmental health study of potential adverse effects of a toxic waste incinerator on children. Cooperation with the Pediatric Clinic of the University-Hospital of Freiburg and the Institute of Toxicology in Kiel. Supported by the Federal State of Hessen.  
PI: Wilfried Karmaus
- 1991-1997 Musculo-skeletal disorders in the building industry.  
Epidemiologic part and logistic. Cooperation with the Department of Orthopedics/University Hospital; Institute of Industrial Science/Ergonomics. Supported by the Ministry of Science and Technology. Federal Republic of Germany.  
Role: Co-Investigator
- 1991-1997 Environmental Health Study in the 'Bille-Settlement', Hamburg.  
Epidemiologic part and logistic of the investigation.  
Cooperation with the Department of Dermatology/University Hospital; Department of Internal Medicine/State Hospital Barmbek; several biochemical laboratories; Institute of Mathematics in Medicine. Supported by the Federal State of Hamburg.  
PI: Wilfried Karmaus
- 1991-1994 Epidemiologic investigation in infertility and subfecundity.  
German part of the European-wide study.  
Cooperation with: Institute of Social Medicine, Rostock, Department of Obstetrics, Halle, Department of Obstetrics, Tübingen, Institut for Medical Sociology, Freiburg.  
Role: Co-Investigator
- 1989-1994 European Studies on Infertility and Subfecundity.  
Subprogram B: Development of a Questionnaire on Infertility and Subfecundity and Project Management Group.  
Role: Co-Investigator
- 1990-1991 Pilot-Study 'Environmental Risks in the industrial Lübeck-Herrenwyk'.  
Supported by the Department for Environmental Affairs of Lübeck.  
PI: Wilfried Karmaus
- 1990-1991 Environmental Health Study in Uetersen. Supported by the Local Department for Health and Environmental Improvement of Pinneberg.  
PI: Wilfried Karmaus
- 1987-1990 Epidemiologic investigation in the effects of wood preservatives in day-care centers on the health of teachers.  
Supported by the Liability Insurance of the Employers.  
PI: Wilfried Karmaus
- 1987-1990 Epidemiologic investigation in the effects of wood preservatives in day-care centers on the health of children in Hamburg'.  
Supported by the Federal State of Hamburg.  
PI: Wilfried Karmaus
- 1984-1986 Legal drug use in a female population. Empirical Investigation of risk-factors.  
Supported by the Center for Health Education of the Federal State of Hamburg.  
PI: Wilfried Karmaus
- 1983-1984 Degenerative rheumatic disorders in the building industry.  
Supported by the Hans-Böckler-Stiftung (Trade Unions).

PI: Wilfried Karmaus

1982-1984      Legal drug use in a female population. Prevalence and Concepts  
for Explanation. Supported by the Federal State of Hamburg .  
PI: Wilfried Karmaus

### **PROFESSIONAL ACTIVITIES AND SERVICES**

1. Planning committee of the 2012 meeting of the International Society for Environmental Epidemiology in Columbia, SC, 2008- 2012
2. External examiner for Public Health, Faculty of Medicine, Kuwait University, June 19-July 1, 2010
3. Co-Organizer of the International Conference on Balkan Endemic Nephropathy, East Lansing, Sept. 30 - Oct. 2, 2002.
4. Chairperson of the section 'Fertility and Reproduction II' at the European Regional Meeting in Münster, Germany, September 3-6, 1997.
5. Chairperson of the section 'Children and their environment: Are children exposed to environmental factors which expectedly pose health risks?' at the European Symposium on Environmental Epidemiology, Bremen, November 13-14, 1995.
6. Chairperson of the section 'Monitoring and Surveillance' at the Regional European Meeting of the International Epidemiological Association (IEA), Copenhagen, 18-21 May, 1994.
7. German and English Language European Regional Meeting of the International Epidemiological Association. Basel, Switzerland, 29-31. August 1991, (Member of the Organizing Committee and Scientific Committee).
8. Participation in the planning group of the congress: The Future Task of Prevention. Berlin 28-30. 4.1989, Organization: Health Insurance Companies, Medical Association of Berlin and Technical University of Berlin.
9. Expert-Meeting of the "Investigation in the effects of wood preservatives in day-care centers" 25./26.11.1989 in Hamburg.
10. International Symposium "Epidemiology of Rheumatism and Industrial Labour". Institute for Medical Sociology, Hamburg 24. - 28.6.1985  
Planning group: B. Hullmann, Dr. W. Karmaus, U. Osterholz, B. Ritz.
11. "Relevance of the risk-factor-model in preventing common diseases". Federal Health Office, Berlin 19. - 22.6.1981  
Planning group: Dr. H. Abholz, Dr. B. Borgers, Dr. W. Karmaus, Prof. Dr. J. Korporal.

### **PROFESSIONAL SOCIETIES**

German Society for Medical Sociology 1976  
German Society for Social Medicine and Prevention 1983  
International Epidemiological Association 1987  
German Epidemiological Association 1995  
International Society for Environmental Epidemiology 1997  
American Thoracic Association 2007  
American Public Health Association 2007

### **EPIDEMIOLOGIC CONSULTANT IN:**

- 2002 -      Balkan Nephropathy: Environmental /Clinical Epidemiology.
- 2001-      Epidemiologic consultant for the neonatal care unit in the Department of Pediatrics,  
Michigan State University.
- 1987-      Research project on environmental and dispositional risks for bronchial

- 1991 hypersensitivity in children. A longitudinal Study. University of Freiburg, Federal Republic of Germany.
- 1994-1995 Consultant to faculty at the University in Tbilisi, Georgia for the development of an environmental epidemiology center.
- 1990- Research project on environmental and dispositional risks for allergic disorders in children. A longitudinal study. University of Freiburg, Federal Republic of Germany.

**REVIEW ACTIVITIES****JOURNALS:**

1. Acta Paediatrica
2. African Journal of Biotechnology
3. Allergy
4. American Journal of Industrial Medicine
5. American Journal of Epidemiology
6. American Journal of Public Health
7. American Journal of Respiratory and Critical Care Medicine
8. Annals of Allergy, Asthma, & Immunology
9. Annals of Epidemiology
10. Archives Disease in Childhood
11. Biology of Reproduction
12. BMC Nephrology
13. BMJ Open
14. Canadian Medical Association Journal
15. Chemosphere
16. Clinical and Experimental Allergy
17. Environmental Health
18. Environmental Health Perspectives
19. Environment International
20. Environmental Research
21. Environmental Health
22. Epidemiology
23. European Respiratory Journal
24. Frontiers in Public Health
25. Health Psychology Review
26. Human Reproduction
27. Indian Journal of Medical Sciences
28. International Journal of Epidemiology
29. International Archives of Allergy and Immunology
30. International Journal of Radiation Biology
31. Journal of Allergy and Clinical Immunology
32. Journal of the American Medical Association
33. Journal of Exposure Science and Environmental Epidemiology
34. Journal of Human Lactation
35. Nutritional Biochemistry
36. Pediatric allergy and immunology
37. Pediatric Research
38. Pediatric and Perinatal Epidemiology
39. Psychoneuroendocrinology
40. Radiation Biology
41. Science of the Total Environment
42. Steroids
43. Thorax
44. Obesity Research
45. World Journal of Pediatrics

**AGENCIES:**

- Environmental Protection Agency
- National Institutes of Health
  - NIH CASE study section (2005-2010)
  - NIH IRAP study section (2010 - 2011)
  - NIH KNOD study section (2011)
  - Multiple NIH adhoc review sessions (2011-2019)
- Wellcome Foundation
- Hans-Boeckler Stiftung, Germany
- International Science and Technology Center (Program for the New

Independent States of the former Soviet Union)  
- Sultan Qaboos University, Sultanate of Oman

**EDITORIAL POSITIONS**

- International editor – Bulgarian Journal for Public Health, since 2009
- Associate editor – Clinical and Experimental Allergy, 2009-2012



**TEACHING****CLASSES**

Division of Epidemiology, Biostatistics,  
and Environmental Health at the  
University of Memphis

- Epidemiologic Methods III (6 semesters)
- Genetic & Epigenetic Epidemiology (2 semesters)
- Human Diseases (3 semesters)

Department of Epidemiology  
and Biostatistics at the University  
of South Carolina

- Epidemiologic Methods II (6 semesters)
- Reproductive and Perinatal Epidemiology  
(2 semesters)
- Genetic Epidemiology (2 semester)
- Doctoral Seminar (1 semester)

Department of Epidemiology  
at Michigan State University

- Advanced Epidemiology (6 semesters)
- Environmental Epidemiology (3 semesters)
- Reproductive Epidemiology (3 semesters)
- Epidemiology for Medical Students, part of the  
course 'Clinical Decision Making' (4 semesters)

University Hamburg, Medical Sociology  
University Kiel  
University Flensburg, Health Education  
College of Social Education  
Community College of Social Education  
University Hamburg

- Epidemiology (19 semesters)
- Medical sociology (3 semesters)
- Epidemiology (2 semesters)
- Health education (5 semesters)
- Social medicine (1 semester)
- Medical sociology as teaching assistant  
(8 semesters)

**TEACHING OF 'OCCUPATIONAL AND ENVIRONMENTAL EPIDEMIOLOGY' IN  
SUMMER-SCHOOLS/EPIDEMIOLOGY TRAINING PROGRAMS**

1. In-Country Training Workshop on Environmental & Occupational Health, March 3-7, 2003, Arandjelovac, Jugoslavia
2. In-Country Training Workshop on Environmental & Occupational Health, March 4-8, 2002, Arandjelovac, Jugoslavia
3. Reproductive Epidemiology as part of the course of Environmental Epidemiology, Universität Basel, August 1995
4. Introduction to epidemiology. State Academy of Occupational Health, Berlin (1991, 1992, 1993, 1994, 1995)
5. Epidemiology for Occupational Physicians: April to September (one day every second week). State Academy of Occupational Health, Berlin
6. Together with Prof. Dr. Carl Shy : 26.6.- 8.7.1988, organized by the German Society for Social Medicine and Prevention
7. Together with Prof. Dr. Carl Shy : 5.- 15.7. 1987, organized by the German Society for Social Medicine and Prevention and the International Federation for Hygiene, Preventive and Social Medicine (IFHPSM)

**MENTORING STUDENTS**

In Germany, I was mentor for several post-graduate students for their Dr.med.-thesis (see list below). Besides the Dr. med.-thesis, no additional coursework is required at German universities. However, I had to train these students in epidemiologic approaches.

Name	Prior degree	Previous institution	Training period	Current position
Julia Runge	MD	University of Hamburg	1993-1997	Policy advisor for a subcommission of the Federal Government, Bonn
Pirjo Pennanen	MD	University of Hamburg	1991-1993	Senior Officer, Public Health Service, Finland
Martina Rafalski	MD	University of Hamburg	1987-1991	Physician in a rehabilitation clinic
Nicola Wolf	MD, MPH	University of Hamburg	1987-1990	Assistant professor, Humboldt-University of Berlin, Germany
Thomas Kopf	MD	University of Hamburg	1986-1988	Occupational physician, State department of occupational medicine, Hamburg
Thomas von Feder	MD	University of Hamburg	1986-1988	Occupational physician, State department of occupational medicine, Hamburg
Günther Bode	MD	University of Hamburg	1986-1987	General physician
Beate Ritz	MD	University of Hamburg	1982-1986	Professor, School of Public Health, UCLA, USA
Christoph Enkler	MD	University of Hamburg	1980-1983	Occupational physician, Department of occupational medicine, City of Köln
Burkhard Stünitz	MD	University of Hamburg	1980-1983	?
Markus Hoffmann	MD	University of Hamburg	1978-1981	General physician, adjunct associate professor at the University of Hamburg

At the Department of Epidemiology at Michigan State University I had been mentoring 16 students within 7 years (chaired their thesis/dissertation committee):

Name of Student	Training Period	Institution and Degree (received prior to entry into training)	Title of Research Project	Current Position of past students
Botezan, Calin	1998-2002	MD, Romania	Study on Prevention of Allergy in Children	Administration, European Union, Brussels
DeKoning E. Paul	1999-2001	B.S., Michigan State University	Fisheater study	Resident in Medicine
Asakevich, Scott	1999-2006	B.S., Michigan State University	Peak Expiratory Flow Rate in German Children Exposed to Ambient Outdoor Pollution, Particulate Matter, and Trace Elements	University of Wisconsin Hospital, Internal Medicine
Huang, Suiying	1999-2001	B.S., Michigan State University	Fisheater study	Research Associate, INAMED Aesthetics
Dimitrov, Plamen	1999-2001	MD, Ukania	Training and Research in Health and Environment in the Balkans	Head of the Department of Epidemiology, Assoc. Professor, National Center for Hygiene and Nutrition, Sofia, Bulgaria
Eneli, Ihuoma	2000-2002	MD, Nigeria	Body Mass Index and Airway Hyperresponsibility	Associate Professor in Pediatrics, Ohio State University
Brooks, Kevin	2000-2002	B.S., Jamaica	Fisheater study, Pregnancy, environment and Child Health	See below
Muttineni, Jyotsna	2001-2003	MD, India	Fisheater study	Pediatric resident
Vasilu, Oana	2001-2004	MD, Romania	Biomonitoring planning grant	Research Associate, Michigan Department of Community Health
Sadeghnejad, Alireza	2001-2003	MD, Iran	Air pollution and hospital admission due to asthma	See below
Fussman, Chris	2003-2004	B.S., Grand Valley State	Pregnancy, environment and child health	Epidemiologist at Michigan Public Health Institute
Zhu, Xiaobei	2003-2006	MD, China	Stability and Predictors of mercury among three repeated measurements over three consecutive years among children 6-12 years of age	Research Associate in Epidemiology at Case Western University
Brooks, Kevin, PhD	2002-2006	MS, Michigan State University	Steroid hormone disruptors and childhood allergy	Research Associate, Bioport (Development of Vaccinations)

Name of Student	Training Period	Institution and Degree (received prior to entry into training)	Title of Research Project	Current Position of past students
Sadeghnejad, Alireza, PhD	2003-2006	MS, Michigan State University	In utero programming of childhood asthma	MD, University of Maryland Medical System
Nira Hadar	2004-2006	BA, Isreal	Efficacy of allergen prevention on asthma occurrence in a Four-year follow-up of toddlers	Research Manager in Epidemiology at Tufts-New England Medical Center in Boston, Massachusetts
Cristin Larder	2004-2006	BA, Michigan State University	The effect of body mass index on oral contraceptive failure	Maternal child health, Department of Community Health, Michigan

I served on the dissertation committee for:

Name of Student	Training Period	Institution and Degree (received prior to entry into training)	Title of Research Project	Current Position of past students
Ramadas, Ravisankar	2005-2006	Veterinary physician, India	Interleukin-1 Receptor Antagonist as a Positional Candidate Gene for Allergic Asthma	University of Florida, Gainesville
Mariana Toma-Drane	2007-2008	MPH, MS, University of South Carolina	Effects of post-Chernobyl evacuation on Belarusian's health risk perception and behavior after 17 years	

At the Department of Epidemiology and Biostatistics at the University of South Carolina I had been mentoring the following students:

Name of Student	Training Period	Institution and Degree (received prior to entry into training)	Title of Research Project	Current Position of past students
Cristin Larder	2006 - present	MS, Michigan State Universtiy	open	Maternal child health, Department of Community Health, Michigan
Iyke Ogbuanu	2006 - 2009	MD, Nigeria, MSPH, University of South Carolina	Do prenatal immunological exposures modify the effect of IL13 on childhood atopy?	Medical Officer - New and Under-Utilized Vaccines at WHO, Geneva, Switzerland

Name of Student	Training Period	Institution and Degree (received prior to entry into training)	Title of Research Project	Current Position of past students
Mitra Yousefi	2007-present	BA, University of Maryland	open	
Saroochi Agarwal	2008-2011	MS, University of Texas	Mode of breastfeeding and eczema in infancy	PhD student , University of Texas
Shyam Chirravoori	2008-2011	MD	Clinical Markers as Predictors for Balkan Endemic Nephropathy	
Kesine Hanjangsit	2008-2011	Nurse, MPH (biostatistics USC)	Incidence and factors for Balkan Endemic Nephropathy (BEN): a follow-up study	Associate Professor, School of Nursing, University of Saprassitip, Thailand
Jamie Ritchey,	2007-2012	MPH, University of Miami	Investigation of the relationship between sex steroid hormones, race, and age: implications for prostate health	Tribal Epidemiology Center Director, Adjunct Faculty at the University of Arizona & PADI Assist.Instructor
Nelis Soto-Ramirez	2008-2012	MS, University of Puerto Rico	Maternal Immune Markers In Serum During Late Gestation and In Breast Milk And The Risk Of Asthma-Like Symptoms At Ages 6 and 12 months: A Longitudinal Study	South Carolina Department of Health and Environmental Control, SC
Manza Agovi	2009-2014	Master of Public Health, University of Southern Mississippi, 2006	Hepatitis B,C virus and HIV co-infection among reported female cases in South Carolina, 2004 - 2011: An epidemiological analysis of pregnancy outcomes	Assistant Member Center for Outcomes Research JPS Health Network, Fort Worth, Texas
Ali H. Ziyab	2010-present	Master of Science, Washington University 2006	Role of Allergic Sensitization, Filaggrin Variants, and DNA methylation on the Risk of Allergic Disorders	Assistant Professor, University of Kuwait
Kathleen Ann Clark	2011-2015	Master of Science	Lung function and bronchial hyperresponsiveness as a result of acute chlorine gas exposure	National Institute for Occupational Safety and Health (NIOSH)
Pallavi Balte	2012-2015	Bachelor of Surgery, Master of Public Health	Environmental Exposures and Childhood Pulmonary Function	Research Analyst, Columbia University, New York City, US, Department of General Medicine

Mitra Yousefi	2011-2017	Master of Science in Public Health	A Possible Mechanism for Leptin's Role in Lung Function Independent of Body Mass Index: Investigating Leptin's Genotype, DNA Methylation, and Serum Protein Levels	Principal/Expert Epidemiology Biostatistician at GSK
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At the Division of Epidemiology, Biostatistics, and Environmental Health at the University of Memphis I had been mentoring the following students:

Name of Student	Training Period	Institution and Degree (received prior to entry into training)	Title of Research Project	Current Position of past students
Nandini Mukherjee	2013-2018	M.Sc. Biotechnology	Role of gestational smoking, duration of breastfeeding and DNA-Methylation in the risk of eczema	Post-Doc, Division of Epidemiology, Biostatistics, and Environmental Health at the University of Memphis
Yan Shen	2014-2018	MS, Sociology	The transgenerational effect of maternal grandmother's body mass index and socioeconomic status on offspring birth weight: the mediation effect of maternal birth weight, early adulthood BMI and DNA methylation	Research Scientist, University of Tennessee Health Science Center

I served on the dissertation committee for:

Name of Student	Training Period	Institution and Degree (received prior to entry into training)	Title of Research Project	Current Position of past students
Rasome Eke	2013-2016	MD	Depression and benign prostatic hyperplasia in elderly male medicare beneficiaries	Assistant professor, Division of Epidemiology and Biostatistics, Western Michigan University
Akhilesh Kaushal	2013-2017	MS Statistics	Epigenetic marker identification and assessment of methods on cell type compositions at the epigenome-scale	Postdoc Associate, Center for Precision Environmental Health, Baylor College of Medicine, Houston, US

**Mentoring of faculty**

At the Department of Epidemiology and Biostatistics and the Department of Environmental Health Sciences at the University of South Carolina I am mentoring five junior faculty:

Name of faculty	Training Period	Degree, position	Short-term goals	Topics
Jihong Liu	2005-2012	Sc.D., Assistant Professor	<ul style="list-style-type: none"> <li>• Support writing papers</li> <li>• Integrate mother-infant pair research</li> </ul>	<ul style="list-style-type: none"> <li>- Breastfeeding</li> <li>- PEACH &amp; PALSE study</li> </ul>
Erik R.Svendsen	2005-present	Ph.D., M.S. Research Assistant Professor	<ul style="list-style-type: none"> <li>• Support writing grant proposals (1 R01, 1 Career grant)</li> <li>• Collaboration in publications</li> </ul>	<ul style="list-style-type: none"> <li>- Antibiotic use and asthma</li> <li>- Radiation and lung function</li> </ul>
James Burch	2005-2012	Ph.D. Assistant Professor	<ul style="list-style-type: none"> <li>• Support specific environmental and genetic inquiries</li> </ul>	
Hongmei Zhang	2009-present	Ph.D., Assistant Professor	<ul style="list-style-type: none"> <li>• Advise, Support grant writing</li> </ul>	<ul style="list-style-type: none"> <li>- Genetics &amp; epidemiology of asthma and allergy</li> <li>- Isle of Wight birth cohort</li> </ul>
Tara Sabo-Attwood	2008-2012	Ph.D., Assistant Professor	<ul style="list-style-type: none"> <li>• Advise, Support grant writing</li> </ul>	<ul style="list-style-type: none"> <li>- Gene expression in lung tissue and breast cells</li> </ul>

Please click [here](#) for a complete listing of Dr. Karmaus' publications in PubMed.

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