

Amy Elizabeth Kalkbrenner
Curriculum Vitae

Current Contact Information

Position: Assistant Professor, Environmental Health Sciences
Joseph J. Zilber School of Public Health
University of Wisconsin-Milwaukee

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Professional Experience

- 2013- Adjunct Assistant Professor (L/I) in Department of Population Health Sciences, School of Medicine and Public Health, University of Wisconsin-Madison, WI
(Re-applied for continuing appointment in September 2016)
- 2011- Assistant Professor, Joseph J. Zilber School of Public Health, University of Wisconsin-Milwaukee, WI
- 2009-11 Postdoctoral Research Fellow, Mentor Julie Daniels, Epidemiology, University of North Carolina, Chapel Hill, NC
- 2005-9 Research Assistant for Julie Daniels, Neurodevelopmental Epidemiology, University of North Carolina, Chapel Hill, NC
- 2000-3 Project Director for Bruce Lanphear, Pediatric Environmental Health, Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- 1998-9 Research Associate for Tracy Lieu, Pediatric Health Services Research, Kaiser Permanente Division of Research, Oakland, CA
- 1997-8 Graduate Student Researcher for Barbara Abrams, Nutritional Epidemiology, University of California, Berkeley, CA
- 1992-5 Laboratory Technician for Thomas Kaufman, Homeobox Genetics, Indiana University, Bloomington, IN
- 1990-3 Undergraduate Research Assistant for Dale Sengelaub, Developmental Neuroscience, Indiana University, Bloomington, IN

Education

- 2009 PhD (Epidemiology) University of North Carolina at Chapel Hill
- 1998 MPH (Epidemiology/Biostatistics & Public Health Nutrition) University of California, Berkeley
- 1993 BA (Biology & Psychology, Honors Degree) Indiana University, Bloomington

Publications

Articles in Peer-Reviewed Journals, Under Review

2015. Kalkbrenner AE, Baio J, Watkins S, Hoffman K, Bell P, Daniels JL. Prevalence of autism spectrum disorder in North Carolina: surveillance coverage, denominator choice, and temporal trends. Received invitation to revise and resubmit "Autism Research". Resubmission draft in progress as of September 2016.

Articles in Peer-Reviewed Journals, In Press

2016. Lam J, Sutton P, **Kalkbrenner A**, Windham G, Halladay A, Loustas E, Lawler C, Davidson L, Daniels N, Newschaffer C, Woodruff T. A systematic review and meta-analysis of multiple airborne pollutants and autism spectrum disorder. Accepted PLOS One September 2016.

Peer-Reviewed Journal Articles, In Print or Published Online

2015. Sagiv SK, Bellinger DC, **Kalkbrenner AE**. Of decrements and disorders: assessing impairments in neurodevelopment in prospective studies of environmental toxicant exposures. *Environmental Health*, January 21, 2015;14(1):8 Epub ahead of print.

2015. Kalkbrenner AE, Windham GC, Serre ML, Akita Y, Wang X, Hoffman K, Thayer B, Daniels JL. Particulate matter exposure, prenatal and postnatal windows of susceptibility, and autism spectrum disorders in North Carolina and California. *Epidemiology*, January;26(1):30-42.

2014. Kalkbrenner AE, Schmidt RJ, Penlesky AC. Environmental Chemical Exposures and Autism Spectrum Disorders: A Review of the Epidemiological Evidence. Invited review. *Current Problems in Pediatric and Adolescent Health*, online September 5, 2014. DOI: 10.1016/j.cppeds.2014.06.001

2014. Braun JM, Froehlich T, **Kalkbrenner AE**, Pfeiffer CM, Fazili Z, Yolton K, Lanphear BP. Are autistic-behaviors in children related to prenatal vitamin use and maternal whole blood folate concentrations? *Journal of Autism and Developmental Disorders*, online April 2014. DOI 10.1007/s10803-014-2114-x

2014. Braun JM, **Kalkbrenner AE**, Just JC, Yolton K, Calafat AM, Sjodin A, Hauser R, Webster GM, Chen A, Lanphear BP. Gestational Exposure to Endocrine-Disrupting Chemicals and Reciprocal Social, Repetitive, and Stereotypic Behaviors in 4- and 5-Year-Old Children: The HOME Study. *Environmental Health Perspectives*, online March 2014: DOI:10.1289/ehp.1307261.

2012. Hoffman K, **Kalkbrenner AE**, Vieira VM, Daniels JL. The spatial distribution of known predictors of autism spectrum disorders impacts geographic variability in prevalence in central North Carolina. *Environmental Health* 2012; 11:80 doi:10.1186/1476-069X-11-80.

2012. Kalkbrenner AE, Braun JM, Durkin M, Maenner MJ, Cunniff C, Lee L-C, Pettygrove S, Nicholas JS, Daniels JL. Maternal smoking during pregnancy and the prevalence of autism spectrum disorders. *Environmental Health Perspectives*. 2012;120(7):1042-1048.

2011. Braun JM, **Kalkbrenner AE**, Calafat AM, Yolton K, Ye X, Dietrich KN, Lanphear BP. Relationships between gestational and childhood urinary bisphenol A concentrations and behavior and executive function at 3 years of age. *Pediatrics*. 2011;128(5):873-882. doi:10.1542/peds.2011-1335

2011. Kalkbrenner AE, Daniels JL, Emch M, Morrissey J, Poole C, Chen JC. Geographic Access to Health Services and Diagnosis with an Autism Spectrum Disorder. *Annals of Epidemiology*. 2011;21:304-310.

2011. Lanphear BP, Hornung RW, Houry J, Yolton K, Lierl M, **Kalkbrenner A**. Effects of HEPA Air Cleaners on Unscheduled Asthma Visits and Asthma Symptoms for Children Exposed to Secondhand Tobacco Smoke. *Pediatrics*. 2011;127:93-101. DOI: 10.1542/peds.2009-2312

2011. Braun JM, **Kalkbrenner AE**, Calafat AM, Bernert JT, Ye X, Barr DB, Sathyanarayana S, Lanphear BP. Variability and Predictors of Urinary Bisphenol A Concentrations during Pregnancy. *Environmental Health Perspectives*. 2011; 119:131-137, online Oct 8, 2010 (doi: 10.1289/ehp.1002366 (available at <http://dx.doi.org/>))

2010. Kalkbrenner AE, Daniels JL, Chen JC, Poole C, Emch M, Morrissey J. Perinatal exposure to hazardous air pollutants and autism at age 8 in North Carolina and West Virginia. *Epidemiology*. September 2010;21(5). DOI: 10.1097/EDE.0b013e3181e65d76

2010. Kalkbrenner AE, Hornung R, Bernert JT, Hammond SK, Braun JM, Lanphear BP. Determinants of serum cotinine and hair cotinine as biomarkers of childhood secondhand smoke exposure. *Journal of Exposure Science and Environmental Epidemiology*. 2010;20(7):615-24.

2009. Braun JM, Daniels JD, **Kalkbrenner A**, Zimmerman J, Nicholas J. The effect of maternal smoking during pregnancy on intellectual disabilities among 8-year old children. *Paediatric and Perinatal Epidemiology*. 2009;23:482-491.

2002. Eisner MD, Ackerson LM, Chi F, **Kalkbrenner A**, Buchner D, Mendoza G, Lieu T. Health-related quality of life and future health care utilization for asthma. *Ann Allergy Asthma Immunol*. 2002 Jul;89(1):46-55.

2001. Newacheck PW, Lieu T, **Kalkbrenner AE**, Chi FW, Ray GT, Cohen JW, Weinick RM. A comparison of health care experiences for Medicaid and commercially enrolled children in a large, nonprofit health maintenance organization. *Ambul Pediatr*. 2001 Jan-Feb;1(1):28-35.

2001. Pickett KE, Abrams B, Schauffler HH, Savage J, Brandt P, **Kalkbrenner A**, Chapman SA. Coverage of tobacco dependence treatments for pregnant smokers in health maintenance organizations. *Am J Public Health*. 2001 Sep;91(9):1393-4.

2001. Miller DF, Holtzman SL, **Kalkbrenner A**, Kaufman TC. Homeotic Complex (Hox) gene regulation and homeosis in the mesoderm of the *Drosophila melanogaster* embryo: the roles of signal transduction and cell autonomous regulation. *Mech Dev*. 2001 Apr;102(1-2):17-32.

2001. Miller DF, Rogers BT, **Kalkbrenner A**, Hamilton B, Holtzman SL, Kaufman T. Cross-regulation of Hox genes in the Drosophila melanogaster embryo. *Mech Dev.* 2001 Apr;102(1-2):3-16.

1993. Goldstein LA, Kurz EM, **Kalkbrenner AE**, Sengelaub DR. Changes in dendritic morphology of rat spinal motoneurons during development and after unilateral target deletion. *Dev Brain Res.* 1993 Jun 8;73(2):151-63.

Letters and Commentary

2012. **Kalkbrenner AE**, Braun JM, Durkin MS, Maenner MJ, Cunniff C, Daniels JL. Presentation of Study Results: Kalkbrenner et al. *Respon. Environmental Health Perspectives* . 2012;120(9):A344-A345.

2009. Braun JM, **Kalkbrenner AE**. Autism Prevalence and Precipitation: The Potential for Cross-Level Bias. *Commentary. Arch Pediatr Adolesc Med.* 2009 May; 163:492.

Peer-Reviewed Scientific Meeting Presentations

*presenting author

2016. John S*, **Kalkbrenner A**, Weinhardt L. Examining racial disparities in bacterial sexually transmitted infections using sexual network position. Abstract accepted for the American Public Health Association (APHA), Oct 2016 (Denver, CO).

2016. Lam J*, Sutton P, Halladay A, **Kalkbrenner A**, Windham GC, Davidson L, Lawler C, Newschaffer CJ, Daniels N, Sen S, Woodruff T. From Epi to Decisions: use of Navigation Guide Systematic Review Methodology to Summarize the Evidence for Decision-Making. Poster presentation for the International Meeting for Autism Research (IMFAR), May 2016 (Baltimore, MD).

2016. **Kalkbrenner AE***, Windham G, Lee NL, McConnell RS, Volk HE. Hazardous Air Pollutants in Relation to Autism Diagnosis and Phenotype in a US Family-based Study. Poster presentation for the International Meeting for Autism Research (IMFAR), May 2016 (Baltimore, MD).

2015. Volk HE*, McConnell R, Hertz-Picciotto I, Lurmann F, Kerin T, **Kalkbrenner A**, Lee N, Windham G. Prenatal air pollution exposure effects on autism spectrum disorder and neurodevelopment. Abstract at Neurotoxicology, June, 2015.

2015. Donauer S*, **Kalkbrenner AE**, Ryan P, Xu Y, Sucharew H, Yolton K. Prenatal exposure to traffic-related air pollution and infant neurobehavior. Abstract accepted to the International Society of Environmental Epidemiology (ISEE), August 2015 (Sao Paulo, Brazil).

2015. Sagiv SK*, **Kalkbrenner AE**, Bellinger DC. Of decrements and disorders: assessing impairments in quantitative autism traits in prospective epidemiological studies of environmental toxicant exposures. Poster presentation at the International Meeting for Autism Research (IMFAR), May 2015 (Denver, CO).

2014. Volk HE*, **Kalkbrenner AE**, Lee N, Lurmann F, Minor H, Windham G. Integration of Environmental Variables into Autism Genetic Repository Data. Poster presentation at the International Meeting for Autism Research (IMFAR), May 2014 (Atlanta, GA).
2013. Braun JM*, **Kalkbrenner AE**, Just AC, Yolton K, Calafat AM, Sjodin A, Hauser R, Webster G, Chen A, Lanphear BP. Gestational endocrine disrupting chemical exposure and autistic behaviors in 4-5 year old children from Cincinnati OH. Oral presentation at International Society of Environmental Epidemiology (ISEE), August 2013 (Basel, Switzerland).
2013. **Kalkbrenner AE***, Windham GC, Serre ML, Akita Y, Wang X, Thayer BP, Daniels JL. Exposure to ambient coarse particulate matter by gestational period and autism spectrum disorders in North Carolina and California. Poster presentation at Society for Epidemiological Research (SER), June 2013 (Boston, MA).
2012. Hoffman K*, **Kalkbrenner AE**, Vieira VM, Daniels JL. Geographic variability of autism spectrum disorders in central North Carolina. E-poster presentation at International Society for Environmental Epidemiology (ISEE) meeting, August 2012 (Columbia SC).
2012. Durkin MS*, Maenner MJ, Arneson CA, DiGuiseppi C, Constantino J, Fitzgerald R, Lee LC, Pettygrove S, Wingate MS, Nichols J, **Kalkbrenner AE**, Schieve LA, Rice C. Evidence of Increasing Socioeconomic Disparity in the Prevalence of Autism Spectrum Disorder among U.S. Children. Poster presentation at the International Meeting for Autism Research (IMFAR), May 2012 (Toronto).
- 2012. Kalkbrenner AE***, Watkins S, Hoffman K, Bell P, Daniels JL. Sensitivity of Autism Spectrum Disorder Prevalence Estimates to Private and Home School Enrollment and Denominator Choice in North Carolina. Poster presentation at the International Meeting for Autism Research (IMFAR), May 2012 (Toronto).
2012. Braun JM*, **Kalkbrenner AE**, Froehlich T, Yolton K, Dietrich KN, Lanphear BP. Gestational phthalate and bisphenol A and autistic-like social impairment in preschool children. Platform presentation to the Pediatric Academic Society Meeting, April 2012 (Boston).
- 2011. Kalkbrenner AE***, Daniels JL, Poole C, Emch M. Residential Mobility of Children and the Potential for Control Selection Bias. Poster presented at the Society for Epidemiologic Research (SER) Meeting, June 2011 (Montreal).
2011. Hoffman K*, **Kalkbrenner AE**, Daniels JL. Spatial Analysis of Autism Spectrum Disorders in Central North Carolina Using Generalized Additive Models. Poster presented at the Society for Epidemiologic Research (SER) Meeting, June 2011 (Montreal).
2010. Braun JM*, **Kalkbrenner AE**, Yolton K, Calafat A, Lanphear BP. Associations between pre- and postnatal urinary Bisphenol A concentrations and childhood neurobehavior at 3 years of age. Abstract accepted to the Academic Pediatric Association Mtg, December 2010 (Washington DC).
- 2010. Kalkbrenner AE***, Daniels JL, Braun JM, Cuniff C, Durkin M, Lee LC, Nicholas JS, Pettygrove S. Maternal smoking during pregnancy and prevalence of autism spectrum disorders. Oral presentation at the International Meeting for Autism Research (IMFAR), May 2010 (Philadelphia).
2010. Braun JM*, **Kalkbrenner AE**, Calafat A, Bernert JT, Lanphear BP. Predictors and Variability of Urinary Bisphenol A Concentrations During Pregnancy. Abstract accepted for Gordon Research Conference on Environmental Endocrine Disruptors, May, 2010 (Switzerland). Presentation was not given due to inability to travel.

2009. Kalkbrenner AE*, Daniels JL, Poole CL, Chen JC. Hazardous Air Pollutants and Autism in North Carolina and West Virginia. Poster presentation at the Society for Epidemiologic Research (SER) Meeting, June 2009 (Anaheim).

2009. Kalkbrenner AE*, Daniels JL, Poole CL, Chen JC, Emch M. Accessibility of Health Services and Age at Autism Diagnosis. Poster presentation at the International Meeting for Autism Research (IMFAR), May 2009 (Chicago).

2008. Braun JM*, **Kalkbrenner AE**, Daniels JL. Gender modifies the effect of prenatal tobacco smoke exposure on intellectual disabilities among 8-year children in Arkansas, Georgia, North Carolina, and Utah. Poster Presentation at the meeting of the International Society for Environmental Epidemiology (ISEE), September 2008 (ISEE) (Pasadena).

2007. Kalkbrenner A*, Lanphear BL, Hornung R, Bernert JT, Hammond SK. Determinants of Serum and Hair Cotinine as Biomarkers of Childhood Environmental Tobacco Smoke Exposure. Oral Presentation at International Society for Environmental Epidemiology (ISEE) meeting, September 2007 (Mexico City).

2006. Lanphear BL*, Hornung R, Khoury J, Lierl M, **Kalkbrenner A**, Yolton K. Efficacy of HEPA-CPZ Air Cleaners on Unscheduled Asthma Visits and Asthma Symptoms in ETS-Exposed Children with Asthma. Oral Presentation at International Society for Environmental Epidemiology (ISEE) meeting, September 2006 (Paris).

2005. Kalkbrenner AE*, Daniels JL, Lanphear BL. Cigarette smoking during pregnancy and mental retardation in the National Collaborative Perinatal Project. Poster presented at the meeting of the Society for Perinatal Epidemiologic Research (SPER) June 2005 (Toronto).

Grants

Active

Under Consideration

2016. Midwest Air Toxics and Birth Outcomes in the Context of Environmental Mixtures (MATBO)
Funding Agency: NIEHS
Mechanism: PA-13-302 – NIH Research Project Grant Program (R01)
Award: \$2,009,454 (4/2017 – 3/2022)
New submission to be scored in November, 2016
PI: **A. Kalkbrenner**

2016. Air-Pollution Risk for Autism and ADHD – Cross-Disorder Insights and Genetic Liability.
Funding Agency: NIEHS
Mechanism: PA-13-302 – NIH Research Project Grant Program (R01)
Award: \$3,073,261 (9/2016 – 8/2021)
Resubmission scored in June, 2016, at 9%, within NIEHS published payline of 10%.
Awaiting NIEHS Council Review September 2016.
Contact PI: **A. Kalkbrenner** (Co-PI: D. Schendel, Aarhus University, Denmark)

Submitted, Not Funded

2015. Tobacco Exposure and 3rd-Generation Developmental Impacts in the Collaborative Perinatal Project

Funding Agency: Escher Foundation

Co-I: **A. Kalkbrenner** (PI: S. Keim, Nationwide Children's Hospital, Columbus, OH)

2014. Midwest Applied Integrated Research on Trends in Regional Air, Climate, and Energy (Midwest AIRTRACE).

Funding Agency: Environmental Protection Agency

Mechanism: EPA-G2014-STAR-J1– Air, Climate and Energy (ACE) Centers: Science Supporting Solutions

Consultant: **A. Kalkbrenner** (PI: T.C. Bond, University of Illinois at Urbana Champagne)

2014. Experimental and Epidemiologic Study of Air Pollution and Genetics in Autism Spectrum Disorders.

Funding Agency: NIH – multiple agencies

Mechanism: PAR-14-203 – Environmental Contributors to Autism Spectrum Disorders (R01)

Consultant: **A. Kalkbrenner** (PI: H. Volk, University of Southern California)

2014. Determining Critical Windows for Autism Risk Due to Metal Mixtures Using a Novel Biomarker.

Funding Agency: National Institutes of Environmental Health Sciences (NIEHS)

Mechanism: PA-13-302 – NIH Research Project Grant Program (R01) (Score of 39, 30%)

Site Lead (Co-I): **A. Kalkbrenner** (PIs: M. Arora, Mt. Sinai + I. Hertz-Picciotto, University of California, Davis)

2014. Impacts of Green Building Operations (as a Climate Change Response) on Indoor Air Quality and Adult Air Exposure.

Funding Agency: US Environmental Protection Agency

Mechanism: EPA Star - Indoor Air and Climate Change, No. EPA-G2014-STAR-A1

Co-PI: **A. Kalkbrenner** (PI: M. Army, President, Leonardo Academy, Madison, WI)

2014. Air Pollutants and Autism: New Pathways in Analysis of Windows of Susceptibility

Funding Agency: National Institutes of Environmental Health Sciences (NIEHS)

Mechanism: Unsolicited R21, Resubmission (Score of 24, 13th percentile, from NAME Study Section)

PI: **A. Kalkbrenner**

2014. Analysis of Environmental Risk Factors Associated with Vertebral Malformations.

Funding Agency: National Institutes of Health

Mechanism: Unsolicited R21 (Triaged)

Co-I: **A. Kalkbrenner** (PI: P. Giampietro, University of Wisconsin, Madison, WI)

2012. Airborne Pollutants and Autism: New Pathways in Analysis of Windows of Susceptibility

Funding Agency: Autism Speaks

Mechanism: Environmental Epidemiology of Autism Research Network (EEARN)

PI: **A. Kalkbrenner**

2012. Perinatal Air Pollutant Exposure and Impaired Behavior and Cognition in Young Children

Funding Agency: National Institutes of Environmental Health Sciences (NIEHS)

Mechanism: Revised R21 (Score of 38 from NAME Study Section)

PI: **A. Kalkbrenner**

2009. Perinatal Residential Proximity to Agricultural Pesticide Applications and Autism Prevalence at Age 8 in North Carolina and West Virginia
Funding Agency: National Institutes of Environmental Health Sciences (NIEHS)
Mechanism: R21, via special American Rehabilitation and Recovery Act (ARRA) Autism Solicitation (Triaged)
PI: **A. Kalkbrenner**

Completed

2012-15. Perinatal Exposure to Airborne Pollutants and Associations with Autism Phenotype (PEAP)
Funding Agency: Autism Speaks
Award: \$449,690, subaward under Kalkbrenner: \$62,028 (1/12-7/15)
Site PI: **A. Kalkbrenner** (Overall PI: H. Volk, University of Southern California)

2013-14. Social Inequalities and Toxic Air Pollutant Exposures in Milwaukee, Wisconsin
Funding Agency: NIEHS Children's Environmental Health Sciences Core Center, Milwaukee
Mechanism: Pilot Award for Children's Environmental Health Inequities Research
Award: \$59,990 (4/13 – 3/14)
PI: **A. Kalkbrenner**

2006-11. North Carolina Center of Excellence for Autism and Developmental Disabilities Epidemiology
Funding Agency: Centers for Disease Control and Prevention, U50/CCU422345-04
Award: FY06 \$1,012,060 direct & indirect
Role: Postdoctoral Fellow (PI: J. Daniels)

2007-8. Hazardous Air Pollutants and Autism
Funding Agency: NIEHS, through UNC Center for Environmental Health and Susceptibility
Role: Graduate Student Investigator (PI: J. Daniels)

Teaching Record

Courses Developed and Led

- 2016 Exploring Global Environmental Health (undergraduate) (PH142)
Zilber School of Public Health, UWM: 2017
- 2015 Applied Methods and Analysis in Public Health Research (graduate) (PH 823)
Zilber School of Public Health, UWM: 2015, 2016
- 2012 - Principles and Methods of Epidemiology (graduate) (PH 704)
Zilber School of Public Health, UWM: 2012, 2013, 2014
- 2012 - Environmental Epidemiology (graduate) (PH 762)
Zilber School of Public Health, UWM: 2012, 2013, 2015, 2016

Courses Led

- 2015 Capstone in Public Health (graduate) (PH 800)
Zilber School of Public Health, UWM: 2015

Invited Talks

- 2016 Part of "*Big Ideas for Busy People*", 5-minute lay presentation on my research. One of 8 faculty representing UWM at the Wisconsin Science Festival, Wauwatosa, WI
- 2016 *Multiple Air Pollutants and Autism – Epidemiological Evidence*. Invited seminar in epidemiology/biostatistics at the School of Public Health, University of Illinois at Chicago, Chicago, IL
- 2015 *Climate Change, Air Pollution, and Neurodevelopmental Disorders*. Invited talk during one day seminar for Continuing Medical Education: "Climate Change and Public Health: an Interprofessional Review", University of Minnesota, Medical School, Minneapolis, MN
- 2015 *Epidemiological Studies of Environmental Chemicals and Autism*. Invited seminar for trainees of the Wisconsin Leadership Education in Neurodevelopmental and related Disabilities (LEND) program, University of Wisconsin-Milwaukee
- 2015 *Epidemiological Studies of Environmental Chemicals and Autism*. Invited talk. Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
- 2014 *Do air pollutant exposures cause autism? Current evidence and future directions*. Invited seminar at the National Center for Register-based Integrative Psychiatric Research (iPSYCH), Aarhus University, Aarhus, Denmark
- 2013-16 *Advancing Knowledge About Environmental Causes of Neurodevelopmental Disorders: From Question Framing to Practical Considerations*. Repeat invitation. Guest speaker for Doctoral Seminar in Public Health Research (PH801), UWM, Instructor Lance Weinhardt
- 2013 *Air Pollutants Hiding Under that Clear Blue Sky: Could they be Causing Autism?* University of Wisconsin, School of Medicine and Public Health, Department of Population Health Science Seminar Series, Madison, WI
- 2013 *New Directions in Uncovering Roles of Harmful Air Pollutants*. Presentation at Industry/Advocacy Event: Wisconsin Partners for Clean Air: 2013 Clean Air Extravaganza, Milwaukee, WI
- 2013 *Prevalence of Autism Spectrum Disorder in North Carolina: Surveillance Coverage, Denominator Choice, and Temporal Trends*. Surveillance Grantee Meeting of the Autism and Developmental Disabilities Monitoring Network, Centers for Disease Control and Prevention, Atlanta, GA
- 2012 *Epidemiologic investigations of the role of environmental chemicals in neurodevelopmental disorders like autism*. Guest speaker for Doctoral Seminar, PhD Program in Public and Community Health, Medical College of Wisconsin, Milwaukee, WI

- 2012 *Could exposure to tobacco be contributing to autism? How epidemiologists disentangle the causal threads.* Nationwide Children's Hospital Seminar Series, Columbus, OH
- 2011 *Epidemiologic Investigations of the Role of Environmental Chemicals in Neurodevelopmental Disorders like Autism.* "On Public Health" Seminar series at the Zilber School of Public Health, UWM, WI
- 2011 *Introduction to environmental and occupation epidemiology.* Guest speaker for course, Environmental and Occupational Health (PH703), UWM, Instructor Michael Laiosa
- 2010 *Exposure surveillance and use of pre-existing environmental data.* Guest speaker for course, Environmental Epidemiology at UNC, Instructor Steve Wing, Chapel Hill, NC
- 2010 *Exposure Assessment.* Guest speaker for course, Environmental Epidemiology at Duke, Instructors Richard Kwok and Marcia Angle, Durham, NC
- 2010 *Residential Mobility in Studies of Perinatal Epidemiology.* Guest speaker for course, Perinatal and Pediatric Epidemiology at UNC, Instructor Julie Daniels, Chapel Hill, NC

Advisees

Doctoral, Committee Member

- 2011- Rohan Mahadeo Jadhav (Primary Advisor: Sandra McLellan)
Environmental and Occupational Health, Zilber School UWM
Dissertation Area: The impact of rainfall and negative pressure flows on microbial contamination of drinking water
Discontinued the program in May, 2012

Masters, Primary Advisor (Environmental Health Sciences MPH at Zilber School, UWM)

- 2016- Brittany Goodridge
Rachel Morgan
- 2015- Kylli Mae Paavola
- 2014- Claire Pattison
Courtney Kamine
- 2011- Elizabeth Yogerst

Honors, Awards, and Fellowships

2015. Featured in annual Research Report of the University of Wisconsin-Milwaukee. "Autism: Could the disorder be linked to the dirty air we breathe?".
<http://uwm.edu/researchreport/science/autism/>

2012. Maternal Smoking and Autism Research named by Autism Speaks to "Top Ten Research Advances of 2012"

2012. New Investigator Travel Scholarship: Environmental Epidemiology of Autism Research Network (EEARN) Meeting in Toronto

2009-11. National Research Service Award Environmental Epidemiology Postdoc. Traineeship (T32)

2009. First Prize Winner, Poster Session 3, Society for Epidemiologic Research Meeting, Anaheim, CA

2009. Delta Omega Honorary Public Health Society, selection for membership

2007. Impact Award for research benefiting citizens of North Carolina

2004-6. National Research Service Award Environmental Epidemiology Predoctoral Traineeship (T32)

2003-8. William R. Kenan Graduate Fellowship, University of North Carolina

2003. Ibrahim Alumni Award, University of North Carolina

1996. Alumni Fellowship, School of Public Health, University of California, Berkeley

1995. Graduate Fellowship, University of California, Berkeley

1992. Sigma Xi Honorable Mention for undergraduate research

1992. Kantor Award for outstanding senior honors student in psychology, Indiana University

1988-92. Honors Division Della Evans Scholarship, Indiana University

Memberships

Environmental Epidemiology of Autism Research Network (EEARN)

Founding member, International Society for Children's Health and Environment (ISCHE)

Society for Pediatric and Perinatal Epidemiologic Research (SPER)

Society for Epidemiologic Research (SER)

International Society for Autism Research (INSAR)

International Society of Environmental Epidemiology (ISEE)

Professional/Community Service

Member of Editorial Review Board

Environmental Health Perspectives (appointed May 2012)

Invited Reviewer for Journal

Journal of Occupational and Environmental Medicine

Pediatric Research

Paediatric and Perinatal Epidemiology

Environmental Science & Technology

British Journal of Nutrition

Environmental Research

American Journal of Epidemiology (AJE)

Neurotoxicology

Autism Research

JAMA Pediatrics

The Journal of Pediatrics

Pediatrics

Journal of Exposure Science and Environmental Epidemiology (JESEE)

The Journal of Headache and Pain

International Journal of Epidemiology (IJE)

Environmental Health Perspectives (EHP)

Epidemiology

Journal of Child Psychology and Psychiatry

PLoS One

Journal of Toxicology and Environmental Health, Part A: Current Issues

Other Reviewer

2015. Autism Science Foundation (ASF) Pre- and Post-doctoral Fellowship Grant Review

2014. Conference abstract reviewer, Epidemiology section, International Meeting for Autism Research (IMFAR)

2014. State of New Jersey Grant Review Panel, Governor's Council for Medical Research and Treatment of Autism

2012. Autism Speaks Basic and Clinical Division Grant Review

2011, 2013. Academic Pediatric Association, Environmental Health Scholars Retreat

2011. Pilot Project Proposals, Southern California Environmental Health Sciences Center, Keck School of Medicine, University of Southern California

2011. Surgeon General Report: "The Health Consequences of Smoking and Involuntary Exposure to Tobacco Smoke: An Update"

Departmental/University Service

2016/2017. PhD Coordination Committee, Zilber School of Public Health

2015/2016. Undergraduate Degree Workgroup (UG), Zilber School of Public Health

2014/2015. MPH Curriculum Coordinating Committee (MPHCC), Zilber School of Public Health

2013/14. Conceptualized and organized monthly Faculty-Student Socials at Zilber School of Public Health

2013/14. Participated with other epidemiology faculty in the design of the MPH degree, epidemiology track, including track-level outcomes and contributions to the Program Change Form

2012/13. Member of Search and Screen Committee for hiring 4 faculty at Zilber School: Biostatistics and Environmental and Occupational Health

2012/13. Member of Center for Urban Initiatives Research (CUIR) Working Group to establish campus-wide statistical and evaluation services, University of Wisconsin-Milwaukee

2012/13. Member of the Academic Planning Committee (APC), Zilber School of Public Health

2012. Member of "Summer Team" of MPH curriculum development, Zilber School of Public Health

2011/12. Created and led the Milwaukee CER-TIN Research Collaboration Group: Children's Environmental Research – Toxicology/Immunology/Neurotoxicology

2011/12. Member of the Graduate Program Committee (GPC), Zilber School of Public Health

2011. Member of the Ad-Hoc Space Committee, Zilber School of Public Health

2009-11. Created and led the University of North Carolina Epidemiology Post-Doc Group

Media Appearances

2015. Environment and autism. Quoted in in-depth article: “Why don’t we know what environmental factors cause autism?”

Spectrum News

<https://spectrumnews.org/features/why-dont-we-know-what-environmental-factors-cause-autism/>

Slate

http://www.slate.com/articles/health_and_science/medical_examiner/2015/11/what_cause_s_autism_environmental_risks_are_hard_to_identify.html

2014. Publication of particulate matter and autism.

Radio interview (30 minutes) on “UWM Today” at Milwaukee NPR Affiliate WUWM

<http://wuwm.com/post/link-between-air-pollution-and-autism>

Live TV interview on “Wisconsin Tonight”, TMJ4

<http://www.jrn.com/tmj4/shows/wisconsin-tonight/UWM-researcher-finds-link-between-autism-and-air-pollution-280361342.html>

UWM Press Release

<http://www5.uwm.edu/news/2014/10/15/uwm-researcher-adds-to-evidence-linking-autism-to-air-pollutants/> - .VFgU6_nF-So

Medscape

<http://www.medscape.com/viewarticle/833653?src=rss>

Epoch Times

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