

MELISSA A. FURLONG, PHD
Curriculum Vitae

Community, Environment and Policy
Mel and Enid Zuckerman College of Public Health
University of Arizona
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Tucson, AZ 85724
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EDUCATION

- 2012- 2016 Ph.D., Epidemiology
University of North Carolina at Chapel Hill, Chapel Hill, NC
Advisor: Stephanie Engel, PhD
- 2008- 2010 M.P.P., Public Policy
Duke University, Durham, NC
- 2003- 2007 B.S., Psychology with a Concentration in Neuroscience
Duke University, Durham, NC

ACADEMIC POSITIONS

- 2016- Postdoctoral Fellow, Environmental Health Sciences
Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, AZ
Advisor: Paloma Beamer, PhD

EMPLOYMENT

- 2013-2016 NIEHS Ruth L. Kirschstein Training Grant Trainee
- 2013-2016 Special Volunteer, National Institute of Environmental Health Sciences (NIEHS)
- 2011-2012 Research Assistant, University of North Carolina Sensory Experiences Project
- 2010-2011 Associate in Research, Duke University Program on Global Health and Technology Access
- 2007-2008 Paralegal, Legal Aid of NC, Farmworker's Unit and Battered Immigrant Project
- 2006-2007 Research Assistant, Duke University Department of Neurobiology

HONORS AND AWARDS

- 2012** University of North Carolina Graduate School: Merit Fellowship
- 2007** Duke University: Howard Hughes Seminar and Award for Undergraduate Research
- 2006** Duke University: Dean's Summer Undergraduate Research Fellowship
- 2005** National Science Foundation: Research Experience for Undergraduates at CMU

PEER REVIEWED PUBLICATIONS

1. **Furlong M**, Herring A, Daniels J, Engel L, Goldman B, Wolff M, Engel S. "Early Life Characteristics and Neurodevelopmental Phenotypes in the Mount Sinai Children's Environmental Health Center." *Child Psychiatry and Human Development*. 2017 Nov 24. doi: 10.1007/s10578-017-0773-5. [Epub ahead of print]
 2. **Furlong M**, Engel S, Barr D, Wolff M. "Prenatal Pyrethroid Exposures and Associations with Behavior and Executive Functioning in Childhood." *Neurotoxicology*, September 2017 vol 62 pp 231-238
<https://doi.org/10.1016/j.neuro.2017.08.005>
 3. **Furlong M**, Engel S, Buckley J, Daniels J, Engel L, Goldman B, Barr D, Wolff M, Herring A. "Prenatal Exposure to Organophosphorus Pesticides and Childhood Neurodevelopmental Phenotypes". *Environmental Research*, October 2017 vol 158 pp 737-747.
<https://doi.org/10.1016/j.envres.2017.07.023>
 4. Ausderau K, Sideris J, Little L, **Furlong M**, Bulluck J, Baranek G. "Sensory Subtypes and Associated Outcomes in Children with Autism Spectrum Disorders." *Autism Research*, 2016.
doi:10.1002/aur.1626
 5. **Furlong M**, Tanner C, Goldman S, Bhudhikanok G, Blair A, Chade A, Korell M, Hoppin J, Kasten M, Langston J, Marras C, Meng C, Richards M, Ross G, Umbach D, Sandler D, Kamel F. "Using Personal Protective Equipment Modifies the Association Between Pesticides and Parkinson's Disease." *Environment International*, 2015 vol 75 pp 144-150.
 6. **Furlong M**, Engel S, Barr D, Wolff M. "Prenatal Exposure to Organophosphate Pesticides and Reciprocal Social Behavior in Childhood." *Environment International*, 2014 vol 70 pp 125-131.
 7. Ausderau K, **Furlong M**, Sideris J, Bulluck J, Little L, Watson L, Boyd B, Belger A, Dickie V, Baranek, G. "Sensory Subtypes in Children With Autism Spectrum Disorder: Latent Profile Transition Analysis Using a National Survey of Sensory Features". *Journal of Child Psychology and Psychiatry*, 2014 vol 55 (8) pp 935-944.
 8. Ausderau K, Sideris J, **Furlong M**, Bulluck J, Baranek G. "National Survey of Sensory Features of Children With ASD: Factor Structure of the Sensory Experience Questionnaire (3.0)." *Journal of Autism and Developmental Disorders*, 2014 44(4) pp 915-925.
 9. Watson K, Ghodasra J, **Furlong M**, Platt, M. Visual Preferences for Sex and Status in Female Rhesus Macaques. *Animal Cognition*, 2012 Vol 15(3) pp 401-407.
 10. So A, **Furlong M**, Heddini A. Globalization and Antibiotic Resistance. *British Medical Journal*, September 2010. Vol 341 pp 615-616. <http://www.bmj.com/content/341/bmj.c5116.extract>
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OTHER PUBLICATIONS

1. So A, **Furlong M**, Meredith S, Bochorishvili I, Diap G. "Implementation Research and Product Development Partnerships." In Implementation Research for the Control of Infectious Diseases of Poverty. 2011. A WHO/TDR Publication. pp 67-79 http://apps.who.int/tdr/publications/tdr-research-publications/access_report/pdf/access_report.pdf

MANUSCRIPTS IN PREPARATION/SUBMITTED

1. López-Gálvez N, Wagoner R, Ornelas-Van Horne Y, **Furlong M**, Avila E, Quirós-Alcalá L, Beamer P. "Systematic Review of Take-Home Route of Pesticide Exposure." Submitted to Encyclopedia of Environmental Health, 2e.
2. Beamer P, **Furlong M**, Lothrop N, Billheimer D, Guerra S, Stern D, Halonen M, Martinez F. "Early Life Air Pollution and Lifelong CC16 Levels." *In prep.*
3. **Furlong M**, Wolff M, Engel S. "Canned Fish Consumption During Pregnancy and Social Responsiveness Scores at 7-9 years of age." *In prep.*
4. **Furlong M**, Alexander G, Klimentidis Y, Raichlen D. "Physical Activity May Exacerbate the Association Between Air Pollution and Brain Structure in the UK Biobank." *In prep.*
5. **Furlong M**, Halverson-Deming S, Sandler D. "Chronic antibiotic use and weight gain in the Sister Study". *In prep.*

POSTERS AND PRESENTATIONS

Furlong M, Beamer P. "Improving Spatial Resolution of Pesticide Applications in Arizona's Pesticide Use Reporting System." Oral presentation at the International Society for Exposure Science, Durham North Carolina, October 2017.

Teeters B, Beamer P, **Furlong M**. "Pesticide Exposure Rates by Residential and Agricultural Housing Status in 2012 in Yuma County." Poster presented at the Undergraduate Research Opportunities Consortium Forum, August 2017

Barboza J, Beamer P, **Furlong M**. "Pesticide Exposure Rates in Pinal County from 2012-2016." Poster presented at the Undergraduate Research Opportunities Consortium Forum, August 2017.

Furlong M, Engel S, Barr D, Wolf M. "Prenatal Pyrethroid Exposure and Childhood Behavior and Executive Functioning." Poster at the Society for Epidemiological Research, Seattle Washington, June 2017.

Furlong M, Beamer P. "Prenatal exposure to pyrethroid and organophosphorus pesticides and birth outcomes in Arizona." Society for Epidemiological Research, Seattle Washington, June 2017.

Furlong M, Engel S, Buckley J, Daniels J, Engel L, Goldman B, Wolff M, Herring A. "Prenatal Exposure to Organophosphorus Pesticides and Childhood Neurodevelopmental Phenotypes." Poster presented at

Society for Epidemiological Research, Miami Florida, June 2016.

Furlong M, Tanner C, Goldman S, Bhudhikanok G, Blair A, Chade A, Korell M, Hoppin J, Kasten M, Langston J, Marras C, Meng C, Richards, M., Ross, G., Umbach, D., Sandler, D., Kamel, F. "Protective Glove Use and Hygiene Habits Modify the Associations of Specific Pesticides with Parkinson's Disease." Poster presented at International Society for Environmental Epidemiology, Seattle Washington, August 2014.

Furlong M, Sandler D, Halverson-Deming S. "Antibiotics and Weight Gain in the Sister Study." Oral presentation at the International Society for Environmental Epidemiology, Seattle, Washington, August 2014

Furlong M. "Pesticides, Parkinson's Disease, and Personal Protective Equipment." Presentation at National Institutes of Environmental Health Sciences, July 2013

Furlong M., Engel S., Barr D., Wolff, M. "Organophosphate pesticides and social responsiveness in childhood." Poster presented at Society for Epidemiological Research, June 2013, Boston MA.

Furlong M. "Clean stoves, Firewood User Groups, and Firewood Collection." Presentation for RTI's International Development Group. March 2010.

RESEARCH FUNDING

Pending	National Institute of Environmental Health Sciences: K99/R00 Prenatal Exposure to Pesticide Mixtures and Childhood ADHD. Principal Investigator \$912,770
2017	CDC-NIOSH Agricultural Health Center, Western Center for Agricultural Health and Safety: Arizona's Pesticide Use Registry and Vital Statistics Birth Certificates. Co- Principal Investigator \$26,000.
2014	Parkinson's Disease Foundation: Student Travel Grant. \$1,000
2013	University of North Carolina Department of Epidemiology: Student Travel Grant. \$750

GUEST LECTURES AND TEACHING

Guest Lecture, University of Arizona Student Seminar for Epidemiology (Spring 2017)
 Guest Lecture, University of Arizona Student Seminar for Community, Environment and Policy (Fall 2016)
 Teaching Assistant, UNC Principles of Epidemiology for Public Health, Victor Schoenbach (Summer 2015)
 Teaching Assistant, UNC Introduction to Logic and Probability, Charles Poole (Fall 2014)
 Teaching Assistant, Duke University Intermediate Microeconomics, Subhrendu Pattanayak (Spring 2010)
 Teaching Assistant, Duke University Globalization and Governance, Bruce Jentleson (Fall 2009, Fall 2010)
 Teaching Assistant, Duke University Microeconomics and Public Policy, Elizabeth Ananat (Spring 2009)

SERVICE

Peer Reviewer

American Journal of Epidemiology

Environmental Health Perspectives

Environmental Research

NeuroToxicology

International Journal of Hygiene and Environmental Health

International Journal of Environmental and Occupational Health

Primary Prevention Insights

Biomedical and Environmental Sciences

Abstract Reviewer

Society for Epidemiologic Research, 2017

Citizenship

Member, Committee on Inclusion and Equity, University of Arizona COPH 2017-present

Member, Search Committee Assistant Professor of Biostatistics, University of Arizona COPH, 2017

Poster Judge, Mel and Enid Zuckerman College of Public Health Research Poster Forum, 2017

Coordinator, Environmental Epidemiology Seminar, University of North Carolina, Chapel Hill, 2015-2016

MENTORSHIP

2017 University of Arizona Undergraduate Research Opportunities Consortium Mentored Research

Mentee: Breanna Teeters (Undergraduate)

2017 University of Arizona FRONTERA Summer Internship Research Project

Mentee: Josue Barboza (Undergraduate)

2017 University of Arizona, Fall Independent Study

Mentee: Tun Nef (Undergraduate)

2017 University of Arizona, Internship Supervisor

Mentee: Jay Pacheco-Chino (Undergraduate)

PROFESSIONAL SOCIETIES

Society for Epidemiological Research

International Society for Environmental Epidemiology

International Society for Exposure Science