

Kathie Dionisio, Environmental Health Scientist, in EPA's National Exposure Research Laboratory

Computational Exposure Division

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Area of Expertise: The focus of Kathie's current research is on the application of human exposure models for a variety of uses, including: assessment of the impacts on human exposure due to changes in climate, the investigation of the impact of exposure error on health effect estimates, and the incorporation of near-field exposure modeling into the life cycle process. Kathie also has an interest in global environmental health, particularly in the investigation of exposure from biomass fuels in the developing world, and the impact on child health.

Select Publications:

Arku RE, Dionisio KL, Hughes AF, Vallarino J, Spengler JD, Castro MC, Agyei-Mensah S, Ezzati M. Personal particulate matter exposures and locations of students in four neighborhoods in Accra, Ghana. *J Expo Sci Environ Epidemiol*. 2015. 25(6):557-66.

Zhou Z, Dionisio KL, Verissimo TG, Kerr AS, Coull B, Arku RE, Koutrakis P, Spengler JD, Hughes AF, Vallarino J, Agyei-Mensah S, Ezzati M. Chemical composition and sources of particle pollution in affluent and poor neighborhoods of Accra, Ghana. *Environ Res Lett*. 2013. 8(4).

Dionisio KL, Howie SRC, Dominici F, Fornace K, Spengler JD, Adegbola RA, Ezzati M. Household concentrations and exposure of children to particulate matter from biomass fuels in The Gambia. *Environ Sci Technol*. 2012. 46(6): 3519-27.

Dionisio KL, Howie SRC, Dominici F, Fornace KM, Spengler JD, Donkor S, Chimah O, Oluwalana C, Ideh, RC, Ebruke B, Adegbola RA, Ezzati M. The exposure of infants and children to carbon monoxide from biomass fuels in The Gambia: a measurement and modeling study. *J Expo Sci Environ Epidemiol*. 2012. 22(2): 173-81.

Rooney MS, Arku RE, Dionisio KL, Paciorek C, Friedman AB, Carmichael H, Zhou Z, Hughes AF, Vallarino J, Agyei-Mensah S, Spengler JD, Ezzati M. Spatial and temporal patterns of particulate matter sources and pollution in four communities in Accra, Ghana. *Sci Total Environ*. 2012. 435-436: 107-14.

Zhou Z, Dionisio KL, Arku RE, Quaye A, Hughes AF, Vallarino J, Spengler JD, Hill A, Agyei-Mensah S, Ezzati M. Household and community poverty, biomass use, and air pollution in Accra, Ghana. *Proc Natl Acad Sci USA*. 2011. 108(27): 11028-33.

View more research publications by [Kathie Dionisio](#).

Education:

- Sc.D., Global Health & Population, Environmental Health, Harvard School of Public Health, 2011
- S.M., Mechanical Engineering, Massachusetts Institute of Technology, 2005
- B.S., Biomedical Engineering, Columbia University School of Engineering and Applied Sciences, 2003

Professional Experience:

- Environmental Health Scientist, U.S. EPA, 2015 - present
- Environmental Health Scientist (Post-doctoral fellow), U.S. EPA, 2011-2015

Honors and Awards:

- U.S. EPA Office of Research and Development award for Exceptional/Outstanding ORD Technical Assistance to the Regions or Program Offices, to the Endocrine Disruptor Screening Program Assistance Team (2014 ORD Honor Award)
- U.S. EPA Office of Research and Development Honor Award, to the Evaluation and Application of Alternative Air Pollution Exposure Metrics in Air Pollution Epidemiology Studies team (2014 ORD Honor Award, Bronze Medal)
- Scientific and Technological Achievement Award for Developing High-Throughput Approaches to Characterize Potential Human Exposures to Environmental Chemicals (2015 Level III STAA Award)