



**Methods Workshop: Advancing Our Understanding of Cancer Burden Through Geospatial Data**

**Date:** Saturday, April 15, 2023

**Time:** 2:30 – 4:30 pm ET

**Location:** Orange County Convention Center, Orlando, FL

**Workshop info:** [bit.ly/aacrgeospatial](https://bit.ly/aacrgeospatial)

**Description:** This session will provide a state-of-the-art overview of the application of geospatial science methods in cancer epidemiologic research. This educational session will describe core concepts on integrating geospatial science with cancer epidemiology, examples of geospatial data types and availability, commonly used geospatial science tools and technologies, geospatial exposure modeling and data linkages for epidemiologic research, and new and emerging research in the field. At the conclusion of this Methods Workshop, the participant should have a basic understanding of the process for conducting an epidemiologic study that proposes to apply a geospatial-based exposure assessment to investigate an environmental exposure in relation to a cancer outcome in an established prospective cohort/study population. We will describe examples of applied research spanning a diversity of topics, including studies of a range of environmental exposures (e.g., air pollution, outdoor light at night), social determinants of health (e.g., neighborhood income inequality), and climate change factors (e.g., wildfires) on outcomes for cancer incidence, mortality, and survivorship.

**Speakers:**



A geospatial guide for integrating location into cancer population sciences research

**Dr. Trang VoPham, PhD, MS** [Workshop Chair]

Assistant Professor  
Epidemiology Program  
Public Health Sciences Division  
Fred Hutchinson Cancer Center  
[trang@fredhutch.org](mailto:trang@fredhutch.org) / [bio](#)



Leveraging geospatial data and methods for studies of environment and cancer

**Dr. Rena R. Jones, PhD, MS**

Investigator  
Occupational and Environmental Epidemiology Branch  
Division of Cancer Epidemiology and Genetics  
National Cancer Institute  
[rena.jones@nih.gov](mailto:rena.jones@nih.gov) / [bio](#)



The role of outdoor air pollutant mixtures in breast cancer risk: an application of geospatial data in a prospective cohort

**Dr. Alexandra J. White, PhD, MSPH**

Stadtman Investigator  
Environment and Cancer Epidemiology Group Head  
Epidemiology Branch, Division of Intramural Research  
National Institute of Environmental Health Sciences  
[alexandra.white@nih.gov](mailto:alexandra.white@nih.gov) / [bio](#)