

# Air Pollution Visualizations for Promoting Data Literacy with Middle Schoolers and the Public | AWARD # 2314109

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Project website: [sites.gatech.edu/contact/](https://sites.gatech.edu/contact/)

## Project Description

*The goal of this project is to advance knowledge of best practices for scaffolding literacy around visualized scientific data through the context of air quality. We are working on a public visual data display in an urban center and a 2-week summer camp for urban middle school students to engage learners with air quality data.*

## Key Achievements

- Accomplishments to date:
  - Iterative design of kiosk interface
  - Developed needs assessment survey for science educators
- What we have **learned**:
  - Outdoor Kiosk can limit the equipment choice and system design!
  - Real time AQI is usually not available

## Audience & Settings

**Audience:** Middle school students (summer camp) and the public (air quality kiosk)

**Disciplinary area:** Environmental science - air pollution

**Learning environments:** urban center & summer camp

## Access and Inclusion

Recruitment for our funded summer camps will prioritize underserved and underrepresented groups in science. By working first with air quality data and then a self-selected environmental dataset of interest to them, students will participate in the scientific practices of generating and presenting evidence-based arguments about their local environment to investigate projects of relevance to their own community, culture, and interests.



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