

**Geospatial Research and Information Domain GRID**

Social Determinants of Health (SDH) Core

UAB Facilities Management

# GIS Day 2024 Event Agenda

Date: November 20th, 2024

Time: 10:00 AM - 2:00 PM

Location: 4th Floor, Lister Hill Library

## 10:00 AM - 10:15 AM | Opening Remarks

Speaker: Ariann Nassel

- Welcome and introduction to GIS Day
- Overview of the event schedule and objectives

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## 10:15 AM - 11:00 AM | Section 1: Geospatial Insights for Health, Agriculture, and Environment

Moderator: Dr. Azar Abadi

- Exploring the role of GIS in addressing key challenges in health and environmental issues.

### Presentations:

1. **Dr. Moiz Usmani** – Mapping the Invisible: Using Remote Sensing and ArcGIS to Track Infectious Disease Risk
2. **Aishwarya Kaushal** Ph.D. Candidate – Leveraging GIS for Environmental Health: Assessing COPD Vulnerabilities Near Toxic Release Inventory Sites.
3. **Dr. Liz Baker** – Converting raster data into area level summary statistics to examine health disparities.

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## 11:00 AM - 12:00 PM | Lunch (Pizza) & Networking

- Networking opportunity with attendees and speakers.
- Explore StoryMaps and Posters.
- Door Prizes: Chance to win exciting GIS-related prizes!

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## 12:00 PM - 1:00 PM | Section 2: Community GIS: Using Geospatial Analysis to Map and Analyze Neighborhood Needs and Patterns

Moderator: Dr. Liz Baker

- Discussing the impact of GIS on local communities and how geospatial analysis can inform decisions and policies.

### Presentations:

4. **Dr. Michelle Wooten** – Mapping UAB Campus Luminaires: Steps Toward the Safe and Healthy Illumination of the Nighttime Environment (SHINE)
5. **Rebecca Jensen** – Using GIS to Examine Disparities in Narcan Distribution and Overdose Deaths in Jefferson County
6. **Jacob Cook** – Utilizing GIS to map crime patterns, predict hotspots, and inform law enforcement strategies.

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## 1:00 PM - 2:00 PM | Section 3: Emerging Trends in GIS Technology

Moderator: Ariann Nassel

- Exploring GIS technology, including new developments in AI.

### Presentations:

7. **Dr. Akhlaque Haque** – The integration of GIS and AI
8. **Marvin Ha** – Science and Art: GIS and Cartography
9. **Dr. Charles (Chad) Murchison** – Overcoming Gaps with R-ArcGIS Bridge

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## 2:00 PM | Closing Remarks

Speaker: Ariann Nassel

- Sharing information about post-event resources and continued engagement with the GIS community.



Special thanks to Dr. Jennifer Croker and Dr. Gabriela Oates.

