Theodros Mentesinot Woldeyohannes

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Value Proposition

Deliver strong solutions in the areas of geospatial data science, GIS deployment, and project management supported by years of progression as a geographer and in the field of GIS. My accomplishments are driven by my ability to learn and adapt to situations and work with teams, community partners, and project stakeholders to produce high quality and impactful results.

EDUCATION

Fall 2021-Present, University of New Mexico - Doctor of Philosophy in Geography
Fall 2018-Spring 2020, Rochester Institute of Technology - Master of Science in Environmental Science

RECENT WORK EXPERIENCE

- **August 2021-Present, Research Assistant, UNM Department of Geography**
  - Research Assistant at the Health and Environmental Research (HER) GIS Lab, specialist in geospatial modeling. Supervision/mentoring of lab interns. Research project management.
- **August 2021-Present, Research Trainee, National Institutes of Health**
  - UNM METALS Superfund Research Program Center
  - Center for Native Environmental Health Equity Research
  - New Mexico Integrative Science Program Incorporating Research in Environmental Sciences
- **September 2020-June 2021, EHS Technician, HSE Consulting Services**
  - Environmental Health & Safety, job-site supervision
  - Industrial Hygiene, Air Quality, Asbestos, Lead, Mold
  - OSHA Compliance, Training, Environmental Services
- **March 2019 – November 2019, CAMP Technician/Environmental Scientist, AECOM**
  - Air quality and noise monitoring, structural and settlement monitoring.
  - Monitored environmental and structural factors with various instruments and monitoring systems

RECENT GRANTS AND AWARDS

- **July 2024 – Present, Environmental Health and Toxicology Pilot Award**
  - "Grant County Air Information and Research for a Well-Informed Society (Air Wise) Pilot," University of New Mexico College of Pharmacy, Award Amount: $50,000
- **August 2023 – May 2024, Graduate Fellow**
  - Zancada Fellowship Program 2024 Cohort, UNM Research

LEADERSHIP

- **Led workshops – Introduction to Spatial Regression Methods in Environmental Health** (2024)
- **2023 – Present – Mentor, Bunker Hill Community College – HER Lab Internship Program**
- **2022 – 2023, President, Student Association of Geography and Environmental Studies (SAGES)**
- **Lead instructor for Diné College GIS Workshop** (2022)

KEY SKILLS

- GIS, Geospatial Data Science, Geospatial technology
- Scientific writing, teamwork, organization
- Environmental monitoring and field skills
- Coding (Python, R, JS, HTML, CSS)
- Spatial statistics, Machine Learning
- Teaching, presentation, communication
- Laboratory skills

RECENT CONFERENCES

CAGIS + UCGIS Symposium – Presenter (2024)
- GIScience for Community Driven Environmental Health Equity Research with Indigenous Communities
- Columbus, OH

American Association of Geographers (AAG) – Presenter (2024)
- Leveraging remote sensing tools to monitor waste fires
- Honolulu, HI

NIEHS PEPH – Presenter (2024)
- Evaluating cumulative environmental exposure to metals and non-metals and community-level health using geospatial modeling and personal exposure assessment
- Research Triangle Park, NC

Professional Links

Website: https://theodros-woldeyohannes.github.io/
GeoResume: https://arcg.is/zWvSC
LinkedIn: https://www.linkedin.com/in/theodros-woldeyohannes-73834387/

KEY PROJECTS

NIH Funded Research Project (August 2021 – Present)
NIH P50 Center for Native American Environmental Health Equity Research
Research Project 2
Evaluating Cumulative Environmental Exposure to Metals and Non-metals and Community-level Health Using Geospatial Modeling and Personal Exposure Assessment
National Institutes on Minority Health and Health Disparities
Study effects of potential exposure from mines and trash burning on Tribal lands. Geospatial modeling and creation of exposure maps. Project management. Interface and communication between NIH officials, academic teams, State, Tribal, and local government, and community partners. Management of data for research centers on network attached storage server.

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Publication (co-author), University of New Mexico (2023)
Comparing performance of meteorological data sources – a case study in geospatial modeling of potential environmental exposure to abandoned mine sites on Navajo Nation
Girlamo C., Lin Y., Hoover J., Beene D., **Woldeyohannes T**., Liu Z., Campen M., MacKenzie D., Lewis J. *Environmental Monitoring and Assessment*. doi: 10.1007/s10661-023-11283-w. PubMed PMID: 37303005; PubMed Central PMCID: PMC10258180. Determined the effect of meteorological data sources on predictions

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Publication in review (lead-author), University of New Mexico (2025)
Waste Fire Surveillance Using Remote Sensing and Air Contaminant Monitoring
Woldeyohannes T., Lin Y., Zhang X., Doyle J., Eggers M., Zhuoming L., Hridoy A., Bimaghra E., Bizure T., Mirka B., James L., Hoover J. *Waste Management*. Available at SSRN: http://dx.doi.org/10.2139/ssrn.5017036 (pre-print)
Surveillance of fires at landfills, unregulated disposal sites, and recycling facilities using remote sensing and air monitoring tools