

# NEGIN NAZARI

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## PROFILE

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PhD (Biology / Public Health focus) with 4+ years of experience using quantitative methods and real-world data to study population health outcomes. Research integrates epidemiology, data analysis, and disease modeling to support decision making in complex health contexts. Published researcher with proven ability to translate technical findings into clear, accessible insights for interdisciplinary teams and diverse audiences.

## EDUCATION

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**PhD, Biology** | Oklahoma State University | Expected 2027

**B.S., Biotechnology**

## EXPERIENCE

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**Graduate Research Assistant** | Oklahoma State University | 2023 – Present

- Built predictive outbreak models (BRT, GAM, logistic regression) for COVID-19 and hemorrhagic fevers, translating results into actionable public health recommendations for multi-stakeholder audiences
- Designed and deployed GIS tools to map disease vulnerability and transmission risk across large populations, synthesizing data from hospitals, surveys, and public health systems
- Led statistical research on zoonotic spillover dynamics using MCA frameworks; **co-authored 5 papers** submitted to GeoHealth, The Lancet, and PLOS Pathogens
- Analyzed large-scale health datasets to identify trends, evaluated effectiveness of public health programs, and produced stakeholder reports that guided strategic planning decisions
- Collaborated with multidisciplinary clinical and policy teams to design and implement community-based health interventions

**Biology Laboratory Instructor** | Oklahoma State University | 2023 – 2025

- taught 200+ students analytical reasoning, experimental design, and scientific communication
- Mentored students individually to develop hypothesis-driven problem-solving skills

## SELECTED PUBLICATIONS & PRESENTATIONS

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- Phillips et al. (2025). Socioeconomic and Eco-Environmental Drivers of Zoonotic Pathogen Outbreaks. *Microorganisms*, 13(3), 621.
- **Nazari et al.** (2026). Comparative Analysis of Disease Outbreak Drivers in Oklahoma and the U.S. Under review, *Open Science Royal Society*
- Raveendran Nair, **Nazari et al.** (2026). Spatial heterogeneity of COVID-19 susceptibility in the lung cancer belt of the U.S. Under review, *The Lancet Regional Health – Americas*.
- Filion A, **Nazari et al.** (2026). Repeating past mistakes: understanding neighborhood-level drivers of the Spanish Flu pandemic. Under review, *American Journal of Epidemiology*.
- Talk & Poster presentation: Comparative analysis of outbreaks in Oklahoma and the U.S. — Evolution Conference

## LEADERSHIP & SERVICE

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- Award Committee, OSU Graduate Student Society (2026): Managed budgeting and grant destitution
- Secretary, OSU Graduate Student Society (2023–2024): Organized seminars, managed student-faculty communication across 200+ member organization
- Peer Reviewer, *Biology Letters* and *Nature Sustainability* journals

## GRANTS & AWARDS

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- NSF I-Corps Regional Grant — competitive innovation grant (National Science Foundation)
- Robberson Graduate Fellowship — university-wide nomination for research excellence, Oklahoma State University
- Wilhm Travel Grant — awarded to support presentation of research at national conference
- Ben Lafond Research Award — awarded to recognize PhD excellence research proposal

## SKILLS

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**Analytics & Modeling:** R, Python, BRT, GAM, Logistic Regression, ML, SAS, Power BI

**Geospatial:** ArcGIS Pro, Kernel Density Estimation, Spatial Autocorrelation, Cluster Detection

**Communication:** Stakeholder presentations, policy reporting, cross-disciplinary research translation, teaching