

Kevin Haynes

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Portfolio: www.geospatialcartography.com

Education

M.Sc., Geography (Western Michigan University)

M.P.A., Public Policy and Administration, Nonprofit Leadership (Western Michigan University)

Cert., Geographic Information Science (Western Michigan University)

B.A., Philosophy of Professional and Applied Ethics (Western Michigan University)

Honors: Cum Laude, Phi Beta Kappa, Pi Alpha Alpha, 2016 MPA Emerging Scholar Award

Study Abroad: One year in India at the University of Hyderabad

Geography Thesis: Link: The Urban Morphology of Hyderabad, India: A Historical Geographic Analysis

MPA Project: Evaluating AlcoholEdu: Online Risk Reduction for International College Students

Professional Experience

Environmental GIS Manager / Deputy GIS Program Manager

8/2020-present

South Carolina Military Dept. in the office of the Adjutant General (National Guard)

- Manages the GIS section of the Environmental and Training Operations Dept. to maintain 20,000+ acres including GIS and IT infrastructure management, procurement, and strategic planning.
- Employs **project management methodology to execute \$250,000 budget and 1 analyst** including Kanban task definition, assignments, establishing priorities and progress tracking, as well as the identification of training and staffing needs.
- **Create geo-enabled dashboards and web apps** to help conservation biologists and NEPA Manager to make data informed decisions and put technical GIS into the hands of people.
- Uses **quantitative analysis to solve problems with geospatial solutions.**
- Engineers ESRI enterprise **GIS solutions** that leverage the ArcGIS platform to manage and utilize several hundred layers of data.

GIS Analyst

Jan 2020-Aug 2020

South Carolina Military Dept. in the office of the Adjutant General

Columbia, SC

- Created, edited, and collected vector and raster GIS data to support the Operations and Training through quantitative analysis, app development, and **cartographic production.**
- Educated soldiers on geospatial technology, analysis, and products. Communicated regularly with agency business units on their needs for GIS mapping, data, applications, and geospatial services.

Engineering GIS Research Assistant

Aug 2019-Dec 2019

Engineering Division, Facilities Management Western Michigan University

Kalamazoo, MI

- **Design, manage, and map utility systems geodatabases** using ESRI GIS software to create cartographic products for decision makers.
- Collect GNSS utility systems data using Trimble survey equipment
- Informs institution's stakeholders on the direction of GIS technology for the agency and the opportunities for **process improvements.**
- **Publish university web maps** using ArcGIS Online and ArcGIS Server
- **Designed new geodatabase management model** to make access to data and analysis more efficient.

GIS Intern

Fall 2019

W.E. Upjohn Center for the Study of Geographical Change

Kalamazoo, MI

- Performed a variety of **geospatial analyses** associated with maintaining accurate environmental databases.
- Consult with clients and design **multi-software workflows** to produce timely GIS and mapping requests
- Used advanced professional knowledge of ESRI GIS workflows to deliver quality analysis and **produce maps.**

Geospatial Technology Teaching Assistant

Aug 2018 - Aug 2019

Western Michigan University

Kalamazoo, MI

- Deliver a range of teaching and assessment activities by **leading geospatial technology labs** to train students at the undergraduate and graduate level
- GEOG 2650 – Introduction to Geospatial Technology – Undergraduate Level
- GEOG 5820 – Remote Sensing of the Environment – Graduate Level
- GEOG 5690 – Geodatabase Design and GIS Workflows – Graduate Level

Global Program Research Assistant

Dec 2015 –Aug 2018

Haenicke Institute for Global Education

Kalamazoo, MI

- Assistant to the Director of Global Programs and Faculty Development to facilitate inclusive spaces.
- **Evaluated** global programming including orientation, partnerships, and international student services.
- **Budgeted** for, planned, and implemented educational, cultural and social events including the annual WMU Fulbright reception, weekend trips, for 42 Fulbright fellows, with annual budgets of \$30,000.
- **Designed** and manage the implementation of a cloud-based application system workflow.

Volunteer Activities

President

2022-Present

URISA – Carolina Chapter

- Elected to serve 300+ URSIA Carolina chapter members to build capacity among the GIS community through youth engagement, professional development, financial development and recruitment.

Humanitarian Openstreetmap

2019-2020

- Organized 2 annual Western Michigan University mapathons during geography week to improve crisis response for humanitarian emergencies.

Fulbright Association Michigan Chapter

2016-2018

- Wrote and produced the 2016 nonprofit annual financial and program report.
- Wrote a successful \$10,000 grant application and designed the 2017-2018 chapter programs.

Research Intern

2015

Center for Human Security Studies

Hyderabad, India

- Conduct counterterrorism **policy research** for the local police department to inform public policy.
- **Build partnerships** with Indian Administrative Services (IAS), law enforcement, and academics by outreach and networking within the community.

Editor/Field Assistant

2013

Shaheen Women's Resources and Wellness Centre

Hyderabad, India

- Edit translated personal accounts of domestic violence survivors in Hyderabad for NGO research.
- Conduct field work collecting education data on children in informal settlements as part of a long-term program to track the educational progress of children.

Technology Skills

- **Geographic Information Systems:** ArcDesktop Advanced, ArcGIS Pro, ArcGIS Server, ArcGIS Image Server, ArcGIS Enterprise Portal, and ArcGIS Online
- **Multispectral Remote Sensing:** ENVI, ESA Sentinel Application Platform, and MultiSpec
- **Statistical Software:** SPSS, Excel
- **Digital Photogrammetry:** Pix4D
- **Mobile GIS:** ArcGIS Fieldmaps, Collector, ArcSurvey, EpiCollect
- **Unmanned Aerial Vehicle Surveying:** Phantom 4 Pro Quadcopter, Inspire Quadcopter, and Parrot Disco
- **Sensors:** Sequoia Multispectral Sensor, and Thermal Infrared Sensor
- **Customer Relationship Management:** Insightly
- **Project Management:** Trello

Highlighted Research

South Carolina COVID-19 Mission

2020-present

I supported the SC COVID-19 response by providing geospatial solutions to senior leadership at the National Guard. I built the **ArcGIS Dashboard**, **health geo-application** and **spatial statistical modeling** that served as the common operating picture for the governor, multiple state agencies, local government and private partners to make statewide decisions. I was part of the multi-agency data analysis team that collaborated with partner agencies to ensure uniform and sound data analysis. You may read more about my COVID-19 from an ESRI blog about my work. Link: <https://www.esri.com/about/newsroom/blog/south-carolina-guard-guides-covid19-missions/>

M.A. Thesis Fieldwork

2018-2020

Graduate Student with Dr. Adam Mathews

"The Urban Morphology of Hyderabad, India: A Historical Geographic Analysis" examines the impacts of colonialism and globalization on the urban morphology of Hyderabad, India. I conducted **mixed-methods quantitative remote sensing** and archival research to determine how historical processes impact urbanization.

GIS services for biology Dissertation Project

2019

At the Upjohn Center, I consulted for a doctoral committee to analyze raster and vector data by conducting a site suitability to determine study sites using ArcGIS Pro within a narrowly defined complex criteria across the Midwest for an avian study on the effects of urban noise on bird songs.

Certification and Training

- **Agile Project Management Fundamentals** – Midlands Technical College 4/2020
- **URISA GIS Leadership Academy** - St. Petersburg, FL - 11/2020
- National Emergency Management Basic Academy - FEMA - 8/2020-10/2020
 - 0101 Fundamentals of Emergency Management
 - L0102 Science of Disaster
 - L0103 Planning Emergency Operations
 - L0146 Homeland Security Exercise and Evaluation Program (HSEEP)
 - L0105 Public Information and Warning
- Disaster Intelligence Workshop - South Carolina Emergency Management Division 2/20/20 - 2/21/20
- National Emergency management Institute Professional Development Series – 2020
 - IS-120: Introduction to Exercise
 - IS-200: Basic Incident Command System for Initial Response
 - IS-230: Fundamentals of Emergency Management
 - IS-235: Emergency Planning
 - IS-240: Leadership and Influencing
 - IS-241: Decision Making
 - IS-242: Effective Communication
 - IS-244: Developing and Managing Volunteers
 - IS-700: National Incident Management System, An Introduction
- IS-100: Introduction to the Incident Command System
- FEMA IS-00061.b: The Homeland Security Geospatial Concept-of-Operations (GeoCONOPS) In-Depth- 2019
- FEMA IS-800: National Response Framework, An Introduction 03/04/2020
- CPR and AED certification: Adult, Child, and Infant - American Safety and Health Institute - 1/29/20
- Safe on Campus – LGBTQ+ inclusion training

Grants

\$1000 Lucia Harrison Endowment Research Grant	2019
\$2000 Claude and Nancy Phillips International and Area Studies Research Grant	2019
\$1000 Western Michigan University Graduate College Research Grant	2019
\$5000 Fulbright Association of Michigan Chapter Grant	2017
\$1000 Council on International Educational Exchange Grant	2013
\$1000 Western Michigan University Study Abroad Grant	2013
\$800 Western Michigan University Department of Philosophy Student Organization Grant	2012
\$500 Western Michigan University Center for the Humanities Grant	2012

Public Speaking

Haynes, K & Jacobs, C (2021) Geospatial Decision Making: The SC National Guard Data-Driven COVID-19 Response. ESRI UC <https://www.youtube.com/watch?v=dkPTbFhEqBg>

Haynes, K (2019) Urban Growth Modeling: The City of Hyderabad, India from 1600 to 2019. Asian Forum at Western Michigan University.