

Kevin Haynes

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Portfolio: www.geospatialcartography.com

Education

M.Sc., Geography (Western Michigan University) 2020

M.P.A., Public Policy and Administration, Nonprofit Leadership (Western Michigan University) 2018

Cert., Geographic Information Science (Western Michigan University) 2019

B.A., Cum Laude Philosophy of Professional and Applied Ethics (Western Michigan University) 2014

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

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

Geography Thesis: [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

8/2020-present

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

- Manages the GIS section of the Environmental Dept. to maintain 20,000+ acres within federal regulation.
- **Manages \$300,000 budget** by linking resources to the goals and objectives in the integrated natural resource management plan to achieve organizational goals.
- Supervises and harnesses the skills of 1 GIS Analyst.
- **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 subject matter experts.
- Conduct **quantitative analysis** to support the National Guard conservation, compliance, and NEPA staff.
- Engineers and implements ESRI enterprise **GIS solutions** that leverage the ArcGIS platform to solve problems and make better environmental conservation and compliance program decisions.

GIS Analyst

Jan 2020-Aug 2020

South Carolina Military Dept. of Adjutant General

Columbia, SC

- Supports the Operations and Training division by providing GIS expertise and authoritative standardized spatial information, products and services for the execution of training missions, strategies on military ranges and training lands.
- Creates and **edit** vector and raster GIS data layers to meet federal data standards (SDSFIE).
- Meets with military clients to discuss mapping and database needs to support the National Guard mission and strategic objectives.

Engineering GIS 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
- **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

Haenicke Institute for Global Education

Dec 2015 –Aug 2018

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

2022-2024

URISA – Carolina Chapter

- Elected to serve the 2022-24 term as URSIA Carolina chapter 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, ArcServer, and ArcOnline
- **Multispectral Remote Sensing:** ENVI, ESA Sentinel Application Platform, and MultiSpec
- **Statistical Software:** R, 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 of the National Guard. I built an ArcGIS Dashboard 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 stakeholders to ensure uniform and sound data analysis. You may read more about my COVID-19 from an ESRI blog about my work. <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

My thesis, "**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 in Hyderabad, India to determine how historical processes impacted the city.

GIS services for biology Dissertation Project

2019

At the Upjohn Center I worked with 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 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

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| \$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 |