

# Cory Leigh Rahman

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## Professional Experience

**Booz | Allen | Hamilton**, Reston, VA Jul 2016 - Current

*GIS & Remote Sensing Specialist*

- WWHGD WG Data Team, Supporting NGA *Aug 2016 - Current*  
(*World Wide Human Geography Data Working Group, Supporting: National Geospatial-Intelligence Agency*)
  - Harvests and processes open geospatial data; writes python scripts to enhance workflow
  - Develops custom web map application to explore resources in the WWHGD Catalog; uses ESRI JavaScript API

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**Center for International Stabilization and Recovery (CISR)**, Harrisonburg, VA Aug 2015 - Jul 2016

*Geospatial Tech Assistant*

- Worked with professor Paul Rittenhouse to develop a GIS tool for use in humanitarian demining efforts
- Traveled to Vietnam and worked with the Norwegian People's Aid to produce a beta product
- Assisted in CISR's international Senior Manager's Course; worked with senior managers from 13 different countries to demonstrate applications of GIS

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**James Madison University**, Geographic Science Program, Harrisonburg, VA Aug - Jul 2016

*Cartographer*

- Historic GIS for Dr. Henry Way: Used historic data to produce an effective comparison map for his publication
- Island Mapping for prof. Mary Kimsey: Mapped La Gonave, Haiti using Remote Sensing & historic data

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**Booz | Allen | Hamilton**, Herndon, VA May - Aug 2015

*Geospatial Intern*

- Learned to work within the BAH network, assisted on client projects, received security training

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**James Madison University**, Geographic Science Program, Harrisonburg, VA Aug 2014 - May 2015

*Teaching Assistant*

- Cartography under Dr. MeiMei: Tutored students on effective cartography; graded maps and labs
- Biogeography under Dr. Amy Goodall: Led class on species identification surveys; graded quizzes and labs
- Physical Geography under Dr. Amy Goodall: Tutored students in class; graded quizzes and labs

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**United States Department of Agriculture (USDA)**, Harrisonburg, VA Jan - May 2015

*GIS Intern*

- Assisted in land classifications, organized geodatabases, mosaicked imagery & elevation data

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**Society for Worldwide Interbank Financial Telecommunication (SWIFT)**, Manassas, VA Jun - Jul 2014

*Project Management Intern*

- Learned multi-dimensional project management using milestones and tasks using MS Project and Sharepoint
- Received security training and operated in a secure environment

## Education

**James Madison University - B.S. in Geographic Science.** Graduated May 2016. Dual concentrated in Applied Geographic Science (AGIS) and Environmental Conservation, Sustainability, and Development (ECSD).

- Graduated Magna Cum Laude | Cumulative GPA: **3.7** | Major GPA: **3.9**

## Honors & Awards

- President, Gamma Theta Upsilon (Geographic Honor Society)
- President's List: Spring 2016, Fall 2015, Spring 2015, Fall 2014
- 1st Place, Geospatial Technology Awards, JMU GTSC, Spring 2016
- Ultimate Geographer Award, JMU GS Faculty Award, Spring 2016

## Relevant Coursework

### GIS and Spatial Analysis classes

Geospatial Tools I, Spatial Thinking and Problem Solving, Introduction to GIS, GIS for Humanitarian Assistance

- Learned spatial data management, projection types, raster vs. vector data, spatial correlation/autocorrelation, georeferencing, digitizing, appropriate classification, and a variety of geoprocessing tools in ArcGIS
- Used ArcGIS Online to create online interactive webmaps; designed online feature services for data collection

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### Remote Sensing classes

Geospatial Tools II, Principles of Remote Sensing, Processing Remotely Sensed Data

- Covered a variety of raster data types (multispectral/hyperspectral imagery and LiDAR); covered processing techniques such as DSM and DTM generation, supervised, unsupervised and object-oriented classifications
- Performed remote sensing techniques using PCI Geomatica & ArcGIS

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### Cartography & Information Visualization classes

Cartography & Geospatial Visualization, Advanced Cartography

- Learned optimum map balance and layout, the appropriate use of projection, color, generalization, and the dichotomy between data exploration and data presentation; designed a variety of thematic maps
- Maps created in ArcGIS and styled using Photoshop, Illustrator and Inkscape

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### Web Mapping

Internet GIS

- Created interactive online maps with HTML, CSS, jQuery, Leaflet API, and Mapbox

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### Coding

Python Programming

- Learned object-oriented programming basics including use of loops, if/else statements, use of external files, and plugins such as ArcPy to automate GIS processes

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### Intelligence Analysis

Predicting Conflict

- Learned information gathering and organization techniques, structured analytic techniques, “bottom-line, up-front” presentation style, intelligence report writing and conflict prediction techniques

## Applied GIS Projects

### Interactive Campus Web Map

Apr 2015

- Teamed up with classmates to develop an interactive web map for JMU; used Leaflet API & ArcGIS Online

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### Genealogical Map for John More Association

Nov 2014

- Spatial analysis of living descendants of John More for the John More Association (JMA, a non-profit genealogical association); utilized a sensationalist style of persuasive mapping

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### Historic Preservation Mapping Project

Apr-May 2014

- Coordinated with a team of 8 JMU students to map the New Town cemetery for the national registry with the purpose of preserving historic status, operated survey-grade GPS units

## Technical Skills

Proficient with:

- Spatial analysis: ESRI's ArcGIS, ArcGIS Online
- Cartography & design: Photoshop, Illustrator and Inkscape
- Web development: HTML, CSS, jQuery, Bootstrap

Used & learning:

- Programming & web development: JavaScript, Python, Leaflet, ESRI Javascript API
- Spatial analysis & open source: QGIS, Mapbox Studio
- Remote sensing: PCI Geomatica

Certification: ESRI Training: ArcGIS Desktop