

# JOHN HARRIS

## Curriculum Vitae

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### Education & Certifications

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**M.S. Geology** (In progress) – Geomorphology emphasis August 2022-Present

University of Maryland, College Park, MD

- Advisor: Dr. Karen Prestegard
- Thesis topic: *Controls on tributary fluxes of water and sediment to urban streams.*

**B.S. Geology** January 2013-August 2016

Colorado State University, Fort Collins, CO

- Xi Sigma Pi Natural Resources Honors Society, Member
- Independent research: *Characteristics and predictors of organic matter content in floodplain soils of the Front Range.*

### Certifications

- Professional Geologist licensed through the National Association of State Boards of Geology.
- FAA Commercial Remote Pilot (Drone) License.
- 40-Hour OSHA HAZWOPER.
- 38-Hour Army Corps of Engineers Wetland Delineation Training Program.
- AHERA Asbestos Building Inspector.
- Florida Stormwater, Erosion, and Sedimentation Control Inspector.

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## Professional Experience

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### Staff Geologist

September 2016-August 2022

APTIM (Previously CB&amp;I), Winter Garden, FL

- Conduct site surveys and assessments and complete environmental remediation projects for the Florida Department of Transportation, the Florida Department of Environmental Protection, 7-Eleven, DR Horton, and other private sector clients. Teach and mentor junior staff on field and office tasks.
- Field experience includes:
  - Management/supervision/oversight of:
    - Well installation and development
    - Underground storage tank closure
    - Dewatering and turbidity control
    - Contaminated soil transportation and disposal
  - Geologic sample logging.
  - Planning and executing Phase II and site closure investigation, assessment, and sampling.
  - Phase I site investigations.
  - Groundwater, surface water, and soil sampling.
  - Installation, operation, and maintenance of remediation treatment systems.
  - Landfill construction quality assurance.
  - Well surveying and abandonment.
  - Asbestos and lead paint inspections.
  - Petroleum spill incident response.
  - Recycling and waste audits.
- Office experience includes:
  - Phase II report preparation.
  - Site history investigation reports.
  - FDEP, FDOT, and local government permit application, tracking, and reporting.
  - EPA Tier 2 and EPCRA hazardous materials reporting.
  - Health and Safety Plan and Fiber Optic Contingency Plan preparation.
  - Preparation and organization of environmental licensing permitting data.

### Environmental Science Officer

March 2019-Present

Army Reserve 400<sup>th</sup> Military Police Battalion, Fort Meade, MD

- Preventive Medicine program manager for a detention center unit with 700 plus personnel.
- Advise the commander and personnel on the medical threat and preventive medicine.
- Advise the commander and staff on the environmental aspects of detention center design and construction.
- Conduct drinking water quality monitoring and treatment for the brigade (4000 plus personnel) during field training events.
- Manage and conduct water quality, insect, rodent, hygiene, disease, and industrial hygiene surveys.

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## Academic Experience

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### Graduate Research Assistantship

August 2022-Present

University of Maryland, College Park, MD

- Funded by the National Science Foundation Critical Zone Network – Eastern Seaboard Urban Cluster. PI: Dr. Karen Prestegaard.
- Study storage and release of water, solutes, and sediments in urban watersheds.
- Collect and analyze hydrological and geomorphological data.
- Conduct surface water and soil sampling.
- Conduct seismic surveys to characterize the bedrock interface.

### Geology Summer Field Camp

May 2016-June 2016

Colorado State University, Fort Collins, CO

- Five-week field course with an emphasis on geologic mapping, structural geology, stratigraphy, and hydrogeology.
- Performed pH, electrical conductivity, and various ion concentration tests on river/spring water upstream and downstream from the Questa Mine; investigated the effects of mine run off and hydrothermal alteration in the area, as well as the effectiveness of mine remediation.
- Created geologic maps and cross sections for sites near Taos, NM and Silverton, CO by field study and aerial photograph; wrote reports evaluating the geologic history of the field sites and surrounding area based on sedimentary packages, metamorphic facies and structural complexities.
- Examined the lateral and vertical relationships of sedimentary deposits in ancient delta and near shore facies.

### Geomorphology Research Assistant/Independent Study

May 2015-April 2016

Colorado State University, Fort Collins, CO

- Awarded “College Honors” for my research presentation, *Characteristics and predictors of organic matter content in floodplain soils of the Front Range*, at the Spring 2016 Undergraduate Research Symposium.
- Performed grain size analyses and sieved and categorized over 200 soil samples as an assistant for Dr. Nicholas Sutfin’s PhD dissertation.
- Emplaced seismometers, conducted tracer studies, and collected soil samples in Rocky Mountain National Park.

### Introductory Geology Laboratory Instructor/Teaching Assistant

August 2014-December 2014

Colorado State University, Fort Collins, CO

- Independently instructed a one-credit Introductory Geology Laboratory course.
- Created and presented weekly lectures with PowerPoint presentations and practical demonstrations.

- Led field trip groups at Lory State Park and locations of interest in Fort Collins.
- Facilitated students' understanding of geologic concepts through class instruction and office hours.
- Graded lab assignments, quizzes, and exams, maintaining academic records in an online database.

**Army Officer Cadet**

August 2012-August 2016

U.S. Army Cadet Command, Fort Knox, KY

- Commissioned as a Second Lieutenant in the U.S. Army Reserve upon completion of the program.
- Top 1/3<sup>rd</sup> of the Army ROTC graduating class for displaying outstanding qualities of leadership and high moral character, awarded "Distinguished Military Student."
- Received leadership evaluations of "Excellent" in leadership positions at the platoon (40 cadets) and squad (10 cadets) level.
- Led company as Head Tactical Officer, responsible for the leadership evaluations of all cadets in the program.
- Taught English to foreign military personnel and provided humanitarian assistance in Cape Verde as a member of a Cadet English Language Training Team.