

# Matthew Richardson

## ECOLOGIST - GIS TECHNICIAN

### EDUCATION

2014 - 2018

**BS ENVIRONMENTAL BIOLOGY**  
Fort Lewis College - Durango, CO

2014 - 2018

**GEOGRAPHIC INFORMATION  
SYSTEMS CERT.**  
Fort Lewis College - Durango, CO

2010 - 2014

**High School**  
Vandegrift High School - Austin, TX

### STATEMENT

An experienced ecologist with an expertise in warm-dry mixed conifer forests. Using geospatial data I have expanded knowledge on the current extent of ecological issues and predicted their future impacts. By combining ecological data with GIS technology, developments can be more sustainable and cause less environmental impact while withstanding future disturbances.

### SKILLS

Surveying / GPS

Adobe Creative Suite

Digital/Film Photography

Woodworking

HTML, CSS, PYTHON, GIT

### EXPERIENCE

May 2018 - September 2018

**FORESTRY TECHNICIAN/BOTANIST**  
Fort Lewis College - Northern Arizona U.

Performed data collection on forestry and botany attributes in a 800-acre wilderness research area. Identification of taxon using a dichotomous key within modified whittaker plots. Standard ecological tools used for forestry metrics. Required excellent physical condition.

January 2018 - May 2018

**RESEARCH ASSISTANT**  
Dr. Julie Korb, Fort Lewis College

In collaboration with the San Juan Forest Service and Fort Lewis College, I helped develop a mapping site for the public domain regarding the Missionary Fire. Goal: to provide mapping of data and comparison photos. Created using Google Maps, Mapbox and ArcMap. [Link](#).

Spring 2016 - Fall 2018

**SUDDEN ASPEN DECLINE RESEARCH**  
Biology Department at Fort Lewis College

Predicting future changes in extent of Aspen range using GIS spatial analysis. Extent analyzed using collected pathogen data and forestry metrics. Data collection method was designed using Gaia GPS for a more efficient collection process.

Fall 2016 - Spring 2018

**GIS / ECOLOGY TEACHER ASSISTANT**  
Fort Lewis College

Providing Fort Lewis College GIS and ecology students with assistance of class and lab work. Additional study hours were held providing in depth course discussion of topics, systems and tools.

### CONTACT

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[www.mdrichardson.com](http://www.mdrichardson.com)

### SOCIAL MEDIA

- [Instagram](#)
- [Twitter](#)
- [LinkedIn](#)
- [Strava](#)

### INTERESTS

- Mountain Running
- Backcountry Skiing
- Film Photography
- Music

### REFERENCES

**Dr. Julie Korb**

Biology Department at Fort Lewis College

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**Dr. Cynthia Dott**

Biology Department at Fort Lewis College

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**Scott White**

Gelogy Department at Fort Lewis College

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