

# Jessica Garrett

<https://madmatchstick.github.io/portfolio/> | [jlgreg88@gmail.com](mailto:jlgreg88@gmail.com) | (859) 229-3357

## Education

### ***University of Colorado Denver***

- Pursuing Master of Engineering in GIS and Geomatics; expected graduation December 2017
- Graduate GIS and Geomatics Certificate

### ***University of Colorado***

- Bachelor of Science in Applied Mathematics with a minor in Environmental Sciences
- Honors research project studying convergence rates of nine unique Monte Carlo algorithms relevant to multidimensional numerical integration
- 3.7 GPA

## Skills

- Web development languages including HTML, CSS and JavaScript (Mapbox GL JS)
- GitHub, Jekyll and Gulp.js for version control and web hosting
- ArcGIS (10.x), QGIS, GDAL, AutoCAD Civil 3D, ERDAS Imagine and Cyclone
- Proficient in MATLAB, R, C++, AMPL and LaTeX (mark-up)
- Strong working knowledge of Python and PostgreSQL
- GPS/GNSS, LiDAR and Remote Sensing concepts and analysis tools

## Work Experience

### ***ICON Engineering, Centennial, CO***

*Nov '16 – present*

#### **GIS Engineer/Coordinator**

- Oversee development and implementation of cross-platform interoperability of all geospatial data including topographic and aerial imagery, FEMA flood databases and mapping and guide technical troubleshooting
- Design custom user-interactive mapping applications utilizing web development frameworks to support modern GIS mediums
- Hydraulic and hydrologic modeling with SWMM and Flo2D promoting effective floodplain management for Colorado municipalities

### ***University of Colorado Denver OIT Services, Denver, CO***

*Feb '14 – Nov '16*

#### **OIT Computing Lab Lead**

- Monitor three Citrix-based thin client computing labs
- Administer OIT website design and editing
- Facilitate staff meetings aimed toward team-building and motivational exercises

### ***Colorado National Bank, Denver, CO***

*July '15 – Jan '16*

#### **Lead Compliance Analyst**

- Developed and managed onboarding procedures to ensure total internal and Federal compliance for high risk, cash-intensive businesses
- Guided business development by providing original geospatial analysis and mapping of various Colorado industries
- Directed company-wide data migration

### ***CenturyLink, Denver, CO***

*Jan '15 – July '15*

#### **Forecast Analyst**

- Managed clock streams for various telecommunication classes to confirm install and repair intervals for Pacific Northwest
- Optimized technician assignment given geographical and workforce constraints
- Built master Excel templates for AOM distribution

### ***Global Technology Resources, Inc. (GTRI), Denver, CO***

*May '13 – Feb '14*

#### **Federal Inside Sales Engineer Intern**

- Sourced IT products and services for NASA's multi-billion dollar SEWP V contract while maintaining technical compliance and price competitiveness
- Spearheaded pricing solutions for the Army's ITES-3H contract
- Assisted in technical writing and editing for various government RFP projects

## Activities & Hobbies

### ***Colorado Mycology Society***

### ***Geospatial Amateurs Denver Meetups***