

GREGORY HALVERSON

EDUCATION

California State University, Northridge
M.Sc. Geographic Information Science **2017**

4.0 GPA

Skills: GIS, remote sensing, spatial analysis/statistics in R, WebGIS with Leaflet, cartography with Illustrator, field surveying, ArcGIS, QGIS, Imagine

Los Angeles Pierce College
A.A. Computer Programming **2015**

Skills: C, C++, Java, object-oriented design, graphs, hash tables, trees

California State University, Northridge
B.A. History **2010**

3.5 GPA

Skills: Critical thinking, writing, comparing sources, research, presentation, collaboration

Los Angeles Pierce College
A.A. Psychology **2009**

Skills: Social psychology applicable to marketing, biopsychology applicable to artificial intelligence

EXPERIENCE

Columbus Technology & Services, NASA Jet Propulsion Laboratory

Pasadena, CA

Intern **2016-2017**

- I completed an operational data pipeline using Anaconda Python to produce a MODIS evapotranspiration data product.
- I am collaborating with the ECOSTRESS mission to develop this pipeline further and produce evapotranspiration data using ECOSTRESS, Landsat, and aerial imagery.

NASA DEVELOP, Jet Propulsion Laboratory

Pasadena, CA

Intern

2016

- I developed a diurnal evapotranspiration model in coordination with the ECOSTRESS mission.
- I developed my skills with environmental modeling, calibration/validation of environmental models, and statistical analysis with python, R, and MATLAB.
- I developed my ability to lead a team of researchers.

California State University, Northridge

Northridge, CA

Instructional Student Assistant

2015 - 2016

- I tutored student-athletes in exam preparation and essay composition for history.

Jet Propulsion Laboratory, California Technical Institute

Pasadena, CA

Volunteer

2015 - 2016

- I developed a global evapotranspiration product derived from MODIS satellite data.
- This project made extensive use of python, GDAL, MATLAB, HTML/CSS/JavaScript, and Leaflet.

NASA DEVELOP Jet Propulsion Laboratory

Pasadena, CA

Intern

2015

- I began development of a global evapotranspiration product through the New Mexico Water Resources II project.
- I gained exposure to the GIS and remote sensing field as well as computer programming experience using python.

Los Angeles Unified School District

Los Angeles, CA

Data Analyst

2014 - 2015

- Data analysis using Excel and VBA
- Technical support for Microsoft Windows and Office
- Customer service
- Data entry

Interac

Japan

Teaching English as a Foreign Language

2012 – 2013

- Moderate conversational ability in the Japanese language
- Designed and implemented curriculum for expressing complex thoughts using simple language
- Teaching, tutoring, and public speaking

Los Angeles Unified School District

Los Angeles, CA

Data Analyst

2006 - 2012

- Data analysis using Excel and VBA
- Technical support for Microsoft Windows and Office
- Customer service
- Data entry

TECHNICAL SKILLS

Spoken Languages: Japanese*Programming Languages:* Python, R, Java, Ruby, C++, C, JavaScript*Applications:* RStudio, PyCharm, QGIS, ArcGIS Desktop, Adobe Illustrator and Photoshop, IntelliJ, Android Studio, RubyMine, Microsoft Visual Studio, Microsoft Office, ERDAS Imagine, MATLAB*Operating Systems:* Windows, Linux, Mac OSX

CONFERENCES

ECOSTRESS Science Team Workshop, Davis, CA, 15 May 2017

“ECOSTRESS L3/4 (PT-JPL) Processing and Products”

Dr. Joshua Fisher, Dr. Laura Jewell, Gregory Halverson

American Geophysical Union, San Francisco, CA, 16 December 2016

“Near Real-Time Monitoring of Global Evapotranspiration and its Application to Water Resource Management”

Annual Earth Science Applications Showcase, Washington, D.C., CA, 10 August 2016

“Applying ECOSTRESS Diurnal Cycle Land Surface Temperature and Evapotranspiration to Agricultural Soil and Water Management”

GRANTS & AWARDS

Honors Convocation with Distinction, Cal State Northridge	2017
Gamma Theta Upsilon International Geographical Honor Society	2017
Dean’s List, Cal State Northridge	2008
President’s Honors, Los Angeles Pierce College	2003 – 2004
Dean’s Honor, Los Angeles Pierce College	2005
Dean’s Honor, Los Angeles Valley College	2005
Dean’s Honor, Los Angeles Pierce College	2002 – 2003

REFERENCES

Dr. Joshua B. Fisher

Science Lead, ECOSTRESS Mission, Jet Propulsion Laboratory

Phone: (818) 354-0934

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Dr. Christine Lee

Scientific Applications Software Engineer, Jet Propulsion Laboratory

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Mr. Nick Rousseau

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