

# Brian Huggett

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<http://bwh13.humboldtgeospatial.com/>

## Career Goals

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I want to promote sound natural resource conservation and utilization in Southern Michigan using my education and experience in hydrology and GIS by working collaboratively with other conservation groups.

## Education

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**Master of Science in Natural Resources**  
Department of Forestry and Wildland Resources,  
Humboldt State University, July 2012  
Arcata, California, 95521  
GPA 3.862

**Certificate of GIS & Remote Sensing**  
Department of Natural Resources,  
Humboldt State University, December 2007  
Arcata, California, 95521  
GPA 3.862

**Bachelor of Science in Environmental Science**  
Minors in Biology and Chemistry  
Lake Superior State University, December 1996  
Sault Sainte Marie, Michigan, 49783  
GPA 3.048

## Skills

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- I operate Geographic Information Systems with a high degree of skill and expertise
- I create visualizations of data and information via charts, graphs, maps
- I write technical reports and training material for students, colleagues, and stakeholders
- I present comfortably in front of large groups of people with diverse backgrounds
- I research problems to understand and propose possible solutions
- I lead teams and can be a team member

## Experience

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**Potawatomi Resource Conservation and Development Council**  
Marshall, Michigan. November 2014 - present  
*Executive Director*

I'm responsible for expanding our natural resource conservation efforts in a 12 county service area. We are bringing black walnut processing infrastructure to the community, developing management plans for our most significant public lands, working to combat invasive species.

**Humboldt State University**  
Arcata, California. August 2012 – June 2014  
*Lecturer of GIS and Mobile Mapping*

I taught intermediate-level GIS and the field-oriented mobile mapping (GPS) courses. Both classes focused on collecting, developing, and analyzing GIS data.

**Humboldt Cartography**  
Eureka, California. January 2011 – July 2014  
*Senior GIS Analyst & Principal*

As a principal in our company, I focused on expanding and communicating with our clientele, and as a senior analyst, I converted data into actionable geographic information.

**California State Parks, North Coast Redwoods**  
Eureka, California. March 2010 – July 2014  
*Environmental Science Technician*

I focused on projects that sought to characterize morphological change (river cross sections and sand dunes movement), maintained a basin-scale stream temperature monitoring network, and developed climate monitoring infrastructure. I provided input and feedback to long-term planning of park projects.

**Humboldt State University**  
Arcata, California. August 2007 – May 2009  
*Research Assistant*

As a part of my graduate work, I simulated and tested watershed response to land cover change with a distributed, numerical model. I trained undergraduates for sediment sampling studies and maintained the University's watershed laboratory.

**Humboldt State University**  
Arcata, California. August 2008 – May 2009  
*Spatial Analysis Lab Assistant*

I provided technical support to students in GIS and remote sensing classes in the University's Spatial Analysis Lab.

## **National Park Service**

Yosemite, California. May 2002 – August 2008

### ***Physical Science Technician***

I coordinated the field logistics for multiple agency water resource research projects. I collected and processed hydrological data via stream gaging measurements, water sample collection, maintaining an instrument network of data loggers, auto-samplers, and stream stage recorders. I trained and supervised technicians and interns and I installed, maintained and upgraded real-time meteorological towers.

## **Awards**

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2011 \$25,000 Grand Prize Winner – Humboldt County Economic Fuel  
2009 CalGIS 1<sup>st</sup> Place Student Poster  
2007 ASPRS Northern California GIS Scholarship

## **Publications & Presentations**

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Huggett, B., A. Stubblefield, A. Dhakal, A. Lehre, Modeling six years of stream discharge using the Distributed Hydrology Soil Vegetation Model (DHSVM) in a coastal, timber harvest catchment, Humboldt County, California, (poster), American Geophysical Union, 2012 Annual Fall Conference December 3 – 7, San Francisco, California

Barnes, J., B. Huggett, Seasonal Thermal Dynamics of 3 Alpine Lakes in the Trinity Alps Wilderness, Northern California, (poster), American Geophysical Union, 2012 Annual Fall Conference December 3 – 7, San Francisco, California

Huggett, B., J. Barnes, Spatial Framework & Observational Design for Detecting Climate Change Signals in High Elevation Lakes, (poster), 2010, 16<sup>th</sup> Annual CalGIS conference, April 18-21, Huntington Beach, California

Lundquist, J., B. Huggett, H. Roop, and N. Low, (2009), *Use of spatially distributed stream stage recorders to augment rain gages by identifying locations of thunderstorm precipitation and distinguishing rain from snow*, Water Resource Research, Volume 45.

Huggett, B., *Bathymetric Mapping in Yosemite National Park*, California Geospatial Review, (2009), Volume 7

Lundquist J. D., B. Huggett (2008), *Evergreen trees as inexpensive radiation shields for temperature sensors*, Water Resource Research, Volume 44.

*Bathymetric Map of a Small Alpine Lake in Yosemite National Park (poster)*, 2009, 15<sup>th</sup> Annual CalGIS Conference, April 6-9, Sacramento, California

*DHSVM and Early Model Calibration Results in a Small, Timber Production Watershed, Humboldt County, California (poster)*, 2009, American Geophysical Union, Annual Fall Conference December 14-19, San Francisco, California

*DHSVM and Sediment Production in a Small, Timber Production Watershed, Humboldt County, California (poster)*, 2008, American Geophysical Union, Annual Fall Conference December 12-16, San Francisco, California

*Determination of Potential Evapotranspiration for a Remote, Alpine Basin in Yosemite National Park (poster)*, 2008, American Society for Photogrammetry and Remote Sensing Annual Spring Conference, May 12-15, Portland, Oregon

## **Organizations**

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American Geophysical Union – 2008 to present  
Association for the Sciences of Limnology and

Oceanography – 2010 to present

Northwest Scientific Association – 2014 to present

American Society of Photogrammetry and Remote Sensing  
– 2006 to present