

## Gabriel Seth Sidman

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### EDUCATION

**UNIVERSITY OF ARIZONA, SCHOOL OF NATURAL RESOURCES**, Tucson, AZ MS Expected 2013  
**Concentration:** Watershed Hydrology and Management  
**Thesis:** Development a of Spatial Model to Predict the Impact of Fuel Treatments on Post-fire Erosion  
**Scholarship:** Peace Corps Fellowship  
**Key Courses:** Watershed Engineering, Cartographic Modeling, Water Quality, Remote Sensing, Watershed Hydrology

**CONNECTICUT COLLEGE**, New London, CT BA 2008  
**Major:** Environmental Studies Overall GPA 3.73  
**Minor:** History (concentration in American History)  
**Selected Scholar:** Center for Conservation Biology and Environmental Studies Certificate 2008  
**Honors:** Magna Cum Laude, Dean's High Honors, Dean's Honors all semesters

**INTERNATIONAL EDUCATION OF STUDENTS**, Granada, Spain Spring 2007

### PROFESSIONAL SKILLS

**Languages:** Spanish (fluent), French (Intermediate)  
**Software Proficiencies:** ArcGIS, MS Office, ERDAS IMAGINE, SQL Server, SigmaPlot, GIMP, Google Earth

### WORK EXPERIENCE

**School of Natural Resources, University of Arizona**, Tucson, AZ 2011-Present  
*Research Assistant*

- Lead research and coordination efforts on interagency project with National Park Service
- Develop spatial modeling approach to predict the effect of fuel treatments on post-fire erosion
- Test model on watershed deemed critical by managers at Zion National Park
- Present results to park staff for use in future wildfire and watershed management decisions

**Agricultural Research Service, US Department of Agriculture**, Tucson, AZ 2011-Present  
*Research Assistant*

- Collaborate with team of ARS and Environmental Protection Agency staff on interagency project
- Perform hydrological GIS modeling of the impact of urbanization on an international watershed
- Analyze modeling results and created maps and graphs to present at a national meeting
- Develop tutorial to teach EPA staff to perform modeling and how to analyze results

**Watershed Management Group**, Tucson, AZ 2011-2012  
*Intern*

- Designed a spatial database of all Low Impact Development (LID) projects in Tucson area
- Analyzed database using GIS software to find meaningful trends in LID projects
- Used findings to create maps to highlight organization's impact for public and donors

**Environmental Health & Engineering**, Needham, MA February-July 2010  
*Technical Specialist*

- Analyzed air and water quality data using graphing, GIS mapping, and statistical tools
- Developed a Microsoft Access database for real time air monitoring data
- Summarized and edited World Health Organization Toolkit for publication in peer-review journal

**Peace Corps**, Río Negro, Honduras 2008-2010  
*Protected Areas Management Advisor*

- Lived and worked in a cloud forest community on the edge of a national park in order to help protect a major watershed and help people benefit from its resources
- Mapped local watershed and infrastructure using GPS to create a town map for tourism
- Managed and solicited funds for the construction of ecocabins to promote ecotourism
- Trained teenagers in environmental interpretation and English to become community guides
- Organized local farmers to facilitate first-time international sale of organic coffee
- Guided women's artisan group through product development and marketing strategies

- Career Services, Connecticut College**, New London, CT 2006 –2008  
*Peer Fellow*
- Guided students through career decisions with resume and interview aid
  - Managed student resumes and profiles in online portfolio database
  - Led workshops with coworkers and staff members in online applications and database use
- Geophysics Department, Connecticut College**, New London, CT Fall 2007  
*Teacher's Assistant*
- Assisted professor with lectures in an introductory geology course
  - Answered student questions in laboratory setting
  - Set up equipment and materials for laboratories
- Gettysburg National Military Park**, Gettysburg, PA Summer 2007  
*Natural Resource Intern*
- Inventoried Eastern Box Turtles within the park woodlots
  - Developed GIS project and created maps detailing box turtle distribution
  - Performed stream quality testing
  - Located, identified, and sprayed pesticides on exotic plants
  - Studied park management techniques
- National Park Service, Perry's Victory and International Peace Memorial**, Put-In Bay, OH Summer 2006  
*Park Guide*
- Created and presented interpretive talks to groups of up to 60 visitors
  - Received training in and handled historical weapons
  - Collaborated with co-workers and supervisors to ensure a positive experience for the park's visitors

### PRESENTATIONS/PUBLICATIONS

- Sidman, G., Guertin, P., Goodrich, D., Falk, D., Thoma, D., Burns, I.S., Korgaonkar, Y. (February 2013). *Modeling Approach to Gauge the Effect of Fuel Treatments on Post-fire Hydrological Response*. Poster Session to be presented at the 2013 Meeting of the George Wright Society on Protected Areas.
- Kepner, W., Burns, I.S., Sidman, G., Levick, L., Goodrich, D., Guertin, P., Yee, W., Scianni, M. (December 2012). *Assessing hydrologic impacts of future Land Change scenarios in the San Pedro River (U.S./Mexico)*. Poster session presented at the Fall Meeting of the American Geophysical Union.

### RESEARCH PROJECTS

- Independent Study**, Environmental Studies, Connecticut College Fall 2007  
*Student*
- Honors Project, Center for Conservation Biology and Environmental Studies**
- Developed and proposed independent project investigating the balance of historical and ecological preservation within the National Parks
  - Researched how several parks balance historical and ecological preservation simultaneously
  - Wrote and presented term paper on findings collected during internship at Gettysburg
- Introduction to Geographic Information Systems**, Connecticut College Spring 2006  
*Student*
- Watershed Analysis of the Connecticut College Arboretum**
- Used hydrological tools in ArcGIS software on a Digital Elevation Model of arboretum
  - Analyzed the accuracy of the GIS-generated watershed by ground-truthing
  - Used GIS software to show the effects of salt runoff in the Arboretum's watershed
  - Presented findings to Connecticut College faculty and Arboretum director

### VOLUNTEER WORK

- Kino Border Initiative**, Nogales, Sonora, Mexico 2012-Present  
*Volunteer*
- Assist nurse in Migrant First Aid Station to provide medical aid to migrants
  - Perform basic medical treatments and give moral support to migrants
- Peace Corps Fellows**, Tucson, AZ 2011-Present  
*Vice-President*
- Organize service events with community organizations for group of graduate students
  - Collaborate to organize Peace Corps Fair to educate public about different cultures
- Manos de Madres**, Memphis, TE/Comayagua, Honduras 2008-Present  
*Advisor*
- Provide communication and translation for women's artisan group in Honduras and NGO
  - Interview artisans to assess impact of microbusiness, and make recommendations based on findings
- American Red Cross**, Boston, MA 2010-2011  
*Volunteer*
- Trained in client casework to assist persons dealing with loss of property and loved ones
  - Received training in disaster services and shelter operation