

**Shannon Seifert**  
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www.shannonseifert.com

## ***Objective***

*Alaska resident seeking full or part-time position related to environmental science, geographic information systems, remote sensing, surveying, glacier research, hydrology, or cold regions study.*

## ***Education***

**Cornell University, Ithaca New York** – Fall 2005 through Fall 2006  
Master of Professional Studies, Biological and Environmental Engineering  
**University of Alaska Southeast, Juneau, AK** – Fall 1996 to Fall 2002  
Bachelor of Science, Environmental Science with Mathematics Minor  
**Humboldt State University, Arcata, CA** - Fall 1995 and Spring 1996, Biodiversity Major  
**Crescenta Valley High School, La Crescenta, CA** - Class of 1995, H.S. Diploma

## ***Skills***

**GIS Software** – 6 yrs. exp. ESRI ArcGIS (ArcInfo, ArcView, ArcPad, ArcIMS). Manifold (basics, IMS).  
**License Management Software** – FlexIM License Manager  
**GPS Instruments** - Trimble XRS Surveyor, 4000 & GeoXM; Garmin Gecko and ETrex; Magellan  
**GPS Software** – Trimble Pathfinder Office Pro, GPS Correct (post-processing)  
**Web Design and Multimedia Software** – Macromedia Studio MX, Adobe Acrobat, Adobe Photoshop  
**Programming Languages** –HTML, XML, JavaScript, ArcXML, some Visual Basic, MATLAB, Campbell Sci.

## ***Work History***

### **August 2005 to present: Graduate Research Assistant**

*Cornell University, Ithaca, New York:* Develop and implement web-based information, modeling methods, and map services related to Variable Source Area Hydrology for the Northeastern U.S.

Visit <http://www.bee.cornell.edu/swlab/SoilWaterWeb/research/VSA/index.html> for more information.

### **September 2002 to May 2005: GIS (Support Services) Technician**

*Spatial Data at UAS, Juneau, Alaska:* Node of Geographic Information Network of Alaska, a statewide initiative providing GIS services, mentoring, and outreach to local faculty, students, agencies, non-profits, schools, and communities. Design and management of GIS data holdings and internet infrastructure, including the creation and update of spatial datasets and metadata, internet map services, and Spatial Data at UAS website. Visit <http://www.uas.alaska.edu/spatialdata> for more info.

### **Fall 2001 to June 2003: Multidisciplinary Laboratory Technician**

*University of Alaska Southeast, Juneau, Alaska:* Supervising GIS/computing laboratory functions, including coordinating student workers, equipment and software maintenance, student research mentoring, substitute teaching of 100 level ENV5 courses, and program website maintenance.

### **May 2001 to June 2004: Research Assistant, Lemon Glacier Research (Juneau Icefield)**

*University of Alaska Southeast, Juneau, Alaska:* Coordinating logistics, lab analysis and remote field work on watershed- level hydrologic research project. Responsible for experimental design, in- field data collection, laboratory analysis, and publication of data and results.

### **Fall 1996 to Spring 2001: Student Assistant IV**

*University of Alaska Southeast, Juneau, Alaska:* Multi-disciplinary Lab Technician. Maintenance, upgrade, and repair of laboratory hardware/software; tutoring GIS software, GPS instrument use

### **Summer 1999: Research Assistant, Glaciology**

*Geophysical Institute, University of Alaska Fairbanks:* Field work in Southeastern Alaska. Dendrochronology studies (tree-coring, core mounting and dating, level surveys) and ice velocity/tidewater calving observation (surveying by theodolite, EDM, and GPS, data reduction and entry into ArcInfo GIS).

## ***Membership***

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- Alpha Epsilon, New York Iota Beta Chapter – Active Member
- Geological Society of America – Student Member
- Alaska Geologic Society – Student Member
- American Geophysical Union – Student Associate Member
- American Homebrewer's Association

## ***Publications***

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- Seifert, S. L.**, Schwarz, T. C., Walter, M. T., 2002, Small-Scale Glacial Lake Outburst Flood Discharge and Suspended Sediment Concentration Variability, Lemon Creek, Southeastern Alaska: Abstract No: 34782 GSA Abstracts with Programs Vol. 34, No. 5, April 2002
- Schwarz, T. C., **Seifert, S. L.**, and Walter, M. T., 2002, Detecting Glacial Outburst Floods on Lemon Glacier, Southeastern Alaska: A Paired Watershed Approach: Abstract No: 34626, GSA Abstracts with Programs Vol. 34, No. 5, April 2002
- Seifert, S. L.**, Schwarz, T. C., Walter, M. T., 2001, Glacial Lake Outburst Flood on Lemon Creek, Southeastern Alaska: Eos Trans. AGU, 82(47), Fall Meet. Suppl., Abstract IP11A-0649, 2001
- Connor, C.L., **Seifert, S.L.**, Hitchcock, B. W. , White, B. M., O'Neel, S, Motyka, R.J., 2000, Results of Student Field Survey at LeConte Glacier: Geological Society of Alaska Technical Meeting, April 13, 2000. Program with Abstracts. (Student Poster) Anchorage, AK
- White, B.M., **Seifert, S.L.**, Hitchcock, B.W., O'Neel, S. Motyka, R.J., & Connor, C. L., 1999, 1999 Results of Student Field Survey at LeConte Tidewater Glacier, Southeastern Alaska: Geological Society of America, Program with Abstracts, Denver, CO., Volume 31, No. 7. (Student poster)
- Connor, C. L., **Seifert, S.L.**, Mattocks, K., Graves, A.J., Tabor, L., Motyka, R.J. and O'Neel, S. O., 1999, Undergraduates Study Calving Retreat at LeConte Glacier, Southeast Alaska: in Geological Society of America, Rocky Mountain Section Meeting, Program with Abstracts, Pocatello, Idaho. (Student poster)