

# **Jason J. Stuckey**

*Curriculum Vitae*

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## **Education**

### **B.S. Geography, B.S. General Science, Minor in Geology**

*University of Oregon, Eugene OR, 2005*

Emphasis in geographic information science (GIS), physical geography, hydrology

Honors from the Department of Geography (2005)

Scholarship for Excellence in Field Studies Awarded by Aquador Consulting (2004)

Phi Beta Kappa (2004)

## Research Interests

- Utilize GIS to assist in improved resource management decisions to reduce impacts and restore natural processes and habitats
- Expand the use and accessibility of GIS as a resource tool
- Develop GIS techniques for understanding and analyzing natural systems, especially fluvial systems
- Create dynamic visual representations of geographic landscapes
- Incorporate spatial data collected in the field with remote sensed information into GIS databases
- Expand my knowledge and skills of field data collection, visualization, and GIS techniques

## Employment

### **GIS & Remote Sensing Office Manager, 1/08 – Present**

*Toolik Field Station, University of Alaska Fairbanks (Fairbanks, AK)*

Manage Toolik GIS & Remote Sensing program: interface with the user community, capture user requests, upgrade and maintain equipment, supervise personnel and manage TFS GIS database and GPS base station data; complete technical assignments in creating, editing and managing GIS data in support of the Toolik GIS Program; perform GIS and remote sensing analyses in support of field projects; provide GIS/GPS/LIDAR based field support for research science at the Toolik Field Station.

### **GIS & Remote Sensing Analyst, 2/07 – 1/08**

*Toolik Field Station, University of Alaska Fairbanks (Fairbanks, AK)*

Completed technical assignments in creating, editing and managing GIS data in support of the Toolik GIS Program; conducted a variety of spatial analyses in support of research projects conducted at the Toolik Field Station; provided GIS/GPS based field support for research science at the Toolik Field Station.

### **GIS Consultant, 9/06 – 1/07**

*Private Consultant (Eugene, OR)*

Created custom geodatabases for environmental assessments; georectified aerial photographs; trained clients in the use of GIS software and applications; edited and managed geodatabases for the City of Eugene.

### **GIS Technical Specialist/IR Camera Operator, 6/05 – 9/06**

*RAM Systems, L.L.C. (Jefferson, OR)*

Collected and integrated spatial information (GPS and infrared data) of forest fire perimeters and hotspots with a Thermovision 1000 infrared camera operated aerially from a helicopter; post processed, created and edited shapefiles of the data; incorporated all relevant data to produce visual displays and statistical data for reports and/or analyses for daily use by the Forest Fire Commanding team.

### **Field Technician, 6/04 – 10/05**

*University of Oregon, Department of Geography (Eugene, OR)*

On rivers throughout regions of Oregon for projects funded by the National Science Foundation (NSF) and the Hatfield Foundation: surveyed river cross-sections and profiles;

coordinated a field team and mapped channel structures; augered paleo channels for soil analysis; ground truthed aerial photo interpretations for geomorphic analysis; collected, post processed, and differentially corrected GPS data of synoptic sediment deposits.

**GIS Assistant, 6/04 – 10/05**

*University of Oregon, Department of Geography (Eugene, OR)*

Assisted on a NSF project on the geomorphic responses of rivers and riparian zones to flood events: researched and evaluated aerial photos for historic comparison and analysis; scanned and digitized maps and aerial photographs; georectified aerial photos for analysis; digitized geomorphic features to support the analysis of river change detection; compiled data and presented weekly reports to project managers; trained employees and students in the use of GIS software for specialized applications.

**GIS Specialist, 6/05 – 10/05**

*Aquador Consulting (Creswell, OR)*

Trained personnel of the Umatilla Soil and Water Conservation District in the use of GIS software and specialized applications of data visualization for water resource analysis.

**Survey/Field Technician, 4/04 – 10/05**

*Aquador Consulting (Creswell, OR)*

Provided field survey support for projects including: floodplain survey, recreation of high water mark using photographic evidence, and culvert replacement for the Siuslaw Watershed Council; operated auto-level and flow meters to measure capacity of stream channels; created site maps from data collected in the field; utilized standard stream surveying techniques at multiple sites.

**Survey Technician, 3/05 – 6/05 (volunteer)**

*University of Oregon, Department of Geology (Eugene, OR)*

Measured tectonic uplift at the Oregon Coast with an auto-level by leveling to national geodetic survey benchmarks; collected, post processed, differentially corrected, and plotted GPS points in a GIS to interpolate a contour map to examine local relief.

**Hydrographic Survey Technician/Public Consultant, 6/04 – 10/04 (volunteer)**

*Oregon Department of Water Resources, Watermaster District 2 (Springfield, OR)*

Collected stream data from multiple locations within various watersheds in the coast range of Oregon; installed stage height plates in support of evaluating stream discharge; operated flow meters to collect stream discharge data; retrieved stream discharge data from continuous data loggers every month; responded to public requests for information regarding site maps and historic water data.

**Additional Experience**

- Training in Advanced GIS, GIS in Water Resources, Geodatabase Development, Remote Sensing, Cartography, Surveying, Field Methods, Arctic Field Studies, and Permafrost.
- Extensive experience working with GIS including: developing and managing databases; metadata generation; qualitative and quantitative spatial and temporal analysis of various regions in the United States.
- Knowledgeable with survey instruments including: auto-levels, total stations, various GPS

units, and flow meters.

- Experience with: ArcGIS9.x Desktop and Workstation, ArcView 3.x, ERDAS Imagine, Macromedia Freehand, Visual Basic 6.0, Microsoft Office, Adobe Photoshop, Trimble Pathfinder Office, Terrasync, Windows XP and Windows 2000 operating systems.
- Additional trainings include Wilderness First Aid, Bear Safety, and EEO/Sexual Harassment.