

WILLIAM STEWART ALDRICH

102 Kearney Way #203, Waunakee WI 53597

baldrich@fastmail.fm

Phone: (608) 469-3954

EDUCATION:

Master of Science in *Environmental Monitoring*: Earned: May 2006
Remote Sensing and Spatial Information Management
University of Wisconsin Madison, Nelson Institute for Environmental Science

Bachelor of Arts in *Rural Development*: Earned: August 2004
Land/Renewable Resources
University of Alaska Fairbanks, Department of Alaska Native & Rural Development

RELEVANT EXPERIENCE:

- Adept with processing and interpretation of remotely sensed data (e.g. Landsat, Quickbird, IKONOS, SPOT, MODIS, and aerial imagery) and usage of analytical RS/GIS functions (e.g. orthorectification/mosaicing and block adjustment)
- Possess high degree of familiarity with topographic, stereographic, and geologic maps—and DEM datasets
- Designed and instructed motivational field- and place-based landscape, land navigation, and orienteering programs for secondary and high school Alaskan students applying the use of maps, compasses, global positioning, GIS, aerial/satellite imagery, and local/traditional knowledge—and helped develop related curricula
- Promoted youth participation and excitement in learning
- Developed a strong contact base and rapport with Alaska Native people in various communities Statewide, and gained appreciation for rural Alaskan issues and assets
- Conducted participatory development and community-based needs assessment work in a rural Alaskan community; authored a successful grant proposal to address a legitimate need
- Planned, coordinated, and executed logistics for extensive remote Alaskan fieldwork
- Inspected, inventoried, and monitored public land use sites in bush Alaska; improved trust and reciprocity with clientele through public contact and positive working relationships
- Stimulated constructive enthusiasm and morale in adverse outdoor and interpersonal conditions
- Presented at national (American Association of Geographers) and state (Wisconsin Land Information Association) level professional conferences
- Participated in various workshops for geographic/environmental education (WLIA, UW-GIS Day, and Wisconsin Environmental Education Institute [WEEI])
- Demonstrate proficient, practical application of geospatial reasoning, dimensional analysis, scientific method and process, and supportive technologies; deliver scrupulous and detailed work to meet deadlines

TECHNICAL SKILLS:

Geospatial: ESRI ArcGIS 9.2 and older, ArcView 3.3, ArcExplorer, and AEJEE (ArcExplorer Java Edition for Education); ERDAS Imagine 8.7 (Digital Image Processing); OrthoMapper (soft-copy photogrammetry: ortho-rectification/mosaicing); Geospatial Experts' GPS-PhotoLink (links spatial and photographic records); Red Hen's GeoVideo (GPS-video linking); Trimble, Garmin, and Magellan GPSs; Garmin Mapsource Topo; DeLorme Topo USA; MS Streets & Trips; NOAA National Geodetic Survey Toolkit; Trimble Planning 2.7 (for precise global positioning); multiple online mapping services
Other Devices: Iridium and Globalstar satellite telephones, VHS radios, digital and 35mm cameras
Transportation: ATVs, Rafts, Canoes, Snowmobiles; comfortable with point-to-point fixed wings and helicopters
Office Resources: MS Word, Excel, PowerPoint; WordPerfect, Outlook, Outlook Express, Lotus Notes, Lotus 1-2-3

EMPLOYMENT:

Project Assistant, Mapping Technology Experiences with Alaska's Cultural Heritage (MapTEACH: NSF-funded ITEST project in cooperation with Environmental Remote Sensing Center [UW-Madison], Alaska Division of Geological & Geophysical Surveys, and UAF), August 2004 – May 2006
Lands & Realty Technician GS-1101-05, Bureau of Land Management, Dept. of Interior; 2001–2003 Summer Seasons Guide, Northern Alaska Tour Company, May 2004 – August 2007
Substitute Teacher, Alaska Gateway & Fairbanks North Star Borough School Districts; May 2003 – June 2007
Curation & Record Accessioning Assistant, University of Alaska Museum, UAF; Summer 1993
Paleomagnetism Project Assistant, Geophysical Institute, UAF; September 1992 - May 1993
Lapidary/Goldsmith Assistant, Lou-Bon Gems & Rocks; 1989-1992

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FORMAL TRAINING

GPS/GIS
ATV Rider Safety
Aviation Safety
Hazardous Materials Safety
Bear/Firearm Safety

QUALIFICATIONS (Past / Present)

Federal Firearm Carry
Canoe/Aquatics Techniques & Safety, Intermediate Level
Cardiopulmonary Resuscitation
Automated External Defibrillation
First Aid

ACCOMPLISHMENTS/MEMBERSHIP

Association of American Geographers, member
Rasmuson Grant; proposal deemed 2003 favorite foundation-wide
Boy Scouts of America: Life Rank, Order of the Arrow, Assistant Scoutmaster
Patriots of Northern Virginia colonial fife, drum, & bugle corps Drum Captain
UAF Assistant Campground Manager

REFERENCES:

(Additional contacts available by request)

■ Professional ○ Academic

<input type="radio"/>	Frank Scarpace, PhD, Emeritus Professor (Digital Image Processing and Interpretation) Civil & Environmental Engineering, UW-Madison 1225 W Dayton Street Floor 12, Madison WI 53706 (608) 233-8419 scarpace@facstaff.wisc.edu	<input type="radio"/>	Jonathan Chipman, PhD, Assistant Scientist Environmental Remote Sensing Center, UW-Madison 1225 W Dayton Street Floor 12, Madison WI 53706 (608) 262-1585 jchipman@facstaff.wisc.edu
<input checked="" type="radio"/>	Tim Olsen, PhD, MapTEACH Principal Investigator / Geospatial Education Specialist Environmental Remote Sensing Center, UW-Madison 1225 W. Dayton Street , Floor 12, Madison WI 53706 (608) 262-1585 tpolsen@facstaff.wisc.edu	<input checked="" type="radio"/>	De Anne Stevens, MapTEACH Principal Investigator / Geologist Division of Geological & Geophysical Surveys 3354 College Road, Fairbanks AK 99709 (907) 451-5000 deanne_stevens@dnr.state.ak.us
<input checked="" type="radio"/>	Jackie Fenno, Associate Professor of Geography University of Alaska Fairbanks 2730 Monteverde Road, Fairbanks AK 99709 (907) 388-9863 ffjsf@uaf.edu	<input checked="" type="radio"/>	Nancy Whicker, Fortymile Team Realty Specialist Bureau of Land Management, Department of Interior 1150 University Avenue, Fairbanks AK 99709 (907) 474-2200 nancy_whicker@ak.blm.gov