

CURRICULUM VITA

ANDREW JAMES BACH

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EDUCATION

PhD. Department of Geography, Arizona State University, 1995

M.A. Department of Geography, University of California, Davis, 1991

B.S. Department of Geography, University of California, Davis, 1988

ACADEMIC POSITIONS

Associate Professor (March 2002- present), Assistant Professor (September 1995 - March 2002),
Department of Environmental Studies/Center for Geography and Environmental
Social Sciences, Western Washington University

PROFESSIONAL MEMBERSHIP

Association of American Geographers
American Water Resources Association
Association of Pacific Coast Geographers
Association of Washington Geographers

AREAS OF SPECIALIZATION

Geomorphology
Soil Genesis and Weathering
Quaternary Studies and Climate Change
Geoarcheology

On Going Research Projects

- 1) Environmental and cultural history of the Alhstrom's and Roose's Prairies, Olympic Peninsula. An understanding of prehistoric history, especially land-management (*i.e.* burning), will allow better management policies to be implemented in a multi-use wilderness area. In collaboration with Olympic National Park Service archeologist Dave Conca and graduate students.
- 2) Evaluation of the impacts of dam removal on floodplain soils along the Elwha River, Olympic Peninsula. Base line data and experimental sampling designs are being used in order to evaluate environmental changes. In collaboration with Olympic National Park Service, the Elwha River Project, Peninsula College and graduate students.
- 3) Geomorphological history of Potholes Coulee- an area scoured during the Missoula Flood featuring potholes ground into basalt bedrock, headward cutting falls, mega-sediments and features (mega-ripples and bars), Holocene loess accumulation, and historical hydrological changes, including canal runoff creating lakes, desiccating lakes, and irrigation runoff. The landforms (especially wetlands in depressions) are related to a long history of human occupation at the site which is being investigated by archeologists from Central Washington University.

REFEREED ARTICLES

- Bach, A.J. and L. Price (expected 2012?) "Mountain Climate" chapter in *Mountains and People*, edited by L. Price, D. Friend and A. Byers, University of California Press: Berkeley.
On-line: http://snobear.colorado.edu/Markw/Mountains/03/mtn_04DRAFT2.doc
- Bach, A. J. (2010) Climate: Mountain, In *Encyclopedia of Geography* (B. Warf, Ed.), SAGE Publications, Singapore, 1: 443-449.
On-line: <http://www.sage-ereference.com/geography/Article_n173.html>.
- Bach, A.J. (2002) Snowshed Contributions to the Nooksack River Watershed, North Cascades, Washington. *The Geographical Review*. 92: 192-212.
- Bach, A.J. (1998) Assessing Conditions Leading to Severe Wind Erosion in the Antelope Valley, California, 1990-1991, *The Professional Geographer*; Vol. 50, 87-97.
- Bach, A.J., Brazel, A.J., and N. Lancaster (1996) Temporal and spatial aspects of blowing dust in the Mojave and Colorado Deserts of Southern California, 1973-1994, *Physical Geography*; Vol. 17, 329-353.
- Bach, A.J., Phillips, F.M., Zreda, M., Elmore, D., Dorn, R., Elliott-Fisk, D., Liu, T., and J. Clark (1996) Last 200,000 years of glacial history at Bishop Creek, eastern Sierra Nevada, California, *U.S. Geological Survey Circular #1119: Conference on Paleoclimates of the Northern Great Basin*, 9-11.
- Bach, A.J., and D.L. Elliott-Fisk (1996) Soil development on late-Pleistocene moraines at Pine Creek, east-central Sierra Nevada, California, *Physical Geography*; Vol. 17, 1-28.
- Bach, A.J. (1995) Aeolian Modifications of glacial moraines at Bishop Creek, eastern California. In *Desert Aeolian Geomorphology* (V.P. Tchakerian, Ed.), Chapman and Hall: London, pp. 179-197.
- Dorn, R.I., Cahill, T.A., Eldred, R.A. Gill, T.E., Bach, A.J., and D.L. Elliott-Fisk. (1990) Dating rock varnishes by the cation ratio method with PIXE, ICP, and the electron microprobe, *International Journal of PIXE*, Vol. 1, 157-195.

TEXTBOOK MANUSCRIPT

- Bach, A. J. (2011) *Map Reading and Analysis*. Fourth Draft used as text book for Geography 351, 190pp.

OTHER PUBLICATIONS AND REPORTS

- Bach, A.J. and S.T. Moore (2009) Washington, *World Book Encyclopedia*.
Entry for Washington State.

- Bach, A.J. (2008) *Field Guide to Mount Baker and the Nooksack Valley*, 50th Annual Meeting of the Western Division, Canadian Association of Geographers, Bellingham WA. 16pp.
- Bach, A.J. (2005) What if the Wizard of Oz Met Dr. Sues? *You Are Here*, Vol. 7: 39-41.
- Bach, A.J. and D. Conca (2004) Natural History of the Ahlstrom's and Roose's Prairies, Olympic National Park, Washington. *Report to Olympic National Park*, 42pp.
- Bach, A.J. (2003) The Best "Lied" Plans: Engaging Undergraduate Participation in Fieldwork, *Pacifica*.
- Bach, A.J. and D. Conca (2001) Soil Influences on the Existence of the Ozette (Ahlstrom's and Roose's) Prairies, Olympic National Park, Washington. *Preliminary Report to Olympic National Park*, 20pp.
- Bach, A.J. (2001) Book Review of *Weather and Climate Extremes: Changes, Variations and a Perspective from the Insurance Industry*, Edited by Thomas R. Karl, Neville, Nicholls and Anver Ghazi. Dordrecht, (1999)., *In: The Professional Geographer*. Vol. 53: 579-580.
- Bach, A.J. (2001) Book Review of *Dynamic Earth Environments: Remote Sensing Observations from Shuttle-Mir Missions*, (2000) Edited by Kamlesh P. Lulla and Lev V. Dessinov, *In: GeoSpatial Solutions*, Vol. 11(4): 49.
- Bach, A., and M. Pohl (1997) Glacial History of the Sierra Nevada. *In Sierra Nevada Ecosystem Project Final Report* University of California Press: Berkeley.
- Dorn, R.I., Meek, N., Bach, A., Beyer, P., Hetrick, J., Liu, T., Pope, G., and T. Wasklewicz (1993) *Geomorphology: Mojave Desert to Death Valley*, Field Guide for Third International Geomorphology Conference of the International Association of Geomorphologists, Arizona State University Department of Geography Publication No. 4, 131pp.
- Bach, A.J., Dorn, R.I., Elliott-Fisk, D.L., and F.M. Phillips. (1992) Glacial avulsion in Pleistocene moraine complexes of the east-central Sierra Nevada, In: Hall, C.A., (ed.), *White Mountain Research Station, Symposium Proceedings* Vol. 4, 17-31.
- Bach, A.J. (1992) Glacial deposits show past dynamics of ice, *Mono Lake Newsletter*, Vol. 14(4), 16.

MANUSCRIPTS CURRENTLY IN PREPARATION

- Bach, A.J., Freelan, S., and Z. Koa "Atlas of Washington" Book to be published on line and will be submitted to a publisher. Preview: <http://www.wvu.edu/huxley/atlas/>
- Ramsden, K. and A.J. Bach. "Spatial and Temporal Patterns of Recent Tree Encroachment on the Ozette Prairies, Olympic National Park, Washington," To be submitted to *Northwest Science*
- Bach, A.J., Gutchewski, M., Ramsden, K. and D. Conca Holocene History of Two Wetlands in the Coastal Temperate Rainforest of Olympic National Park, Washington, USA To be submitted to *Physical Geography*.

Wilkerson, F., Schmid, G.L., Butler, D.R., Aldis, D.F., Fagre, D., and A.J. Bach. Aeolian Deposited Gravels in the Alpine Zone of Glacier National Park, To be Submitted to *Geomorphology*.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS

Bach, A.J. and D. Bishop. (2011) Last Gasp of the Megaflood: Geomorphic and Water History at Potholes Coulee, WA, *Annual Meeting of the Association of American Geographers, Seattle, WA*.

Bach, A.J., Stefan Freelan, graduate students Ben Kane and Zeck Koa, undergraduates Kevin Brown, Matt Etringer, Gabrel Gonzales, Madalyn Ohrt, Cory Olson, Mike Olney and Tia Savedo (2010) Creating a Washington State Atlas for K-12 Students, *Fall Meeting of the Association of Washington Geographers, Seattle, WA*.

Bach, A.J. (2010) On-going Research Associated with the Elwha Dam Removal, *Spring Meeting of the Association of Washington Geographers, Bellingham, WA*.

Bach, A.J. (2009) Geomorphic and Ecological Impacts of a 94-year Old Dam on a Salmon-Bearing River in the Pacific Northwest, *Annual Meeting of the Association of American Geographers, Las Vegas, NV*.

Bach, A.J. (2008) Dam Removal for Ecosystem Restoration and Treaty Obligations: The Elwha River, U.S.A., *16th International Conference of the Society of Human Ecology, Bellingham*.

Bach, A.J. (2008) Issues Associated with Removal of the Elwha Dams, Washington, *Spring Meeting of the Association of Washington Geographers, Ellensburg, WA*.

Bach, A.J. (2008) History of the Elwha Dams, Washington: Dam Removal for Ecosystem Restoration and Treaty Obligations, *50th Annual Meeting of the Western Division, Canadian Association of Geographers, Bellingham WA*.

Bach, A.J. Dwight Barry, Jodi Minion, Brad Smith, Jerry Freilich, Bill Eaton, and Anne Shaffer (2007) Large Dam Removal and Ecosystem Restoration: The Elwha River Project. *Annual Meeting of the Association of American Geographers, San Francisco, CA*.

Bach, A.J., Gutchewsky, M., Ramsden, K., and D. Conca (2005) Holocene History of Two Wetlands in the Coastal Temperate Rainforest of Olympic National Park, Washington, USA, *Annual Meeting of the Association of American Geographers, Denver, CO*.

Bach, A.J., Ramsden, K., Collins, J., Gleeson, P. and D. Conca (2004) Archival Evidence for Historical Changes in Lowland Wilderness Wetlands, Olympic National Park, WA, *Annual Meeting of the Association of American Geographers, Philadelphia, PA*.

Bach, A.J., DuBose, K., Friskopp, G., Gutchewsky, M., Ramsden, K., and D. Conca (2003) Evidence for Prehistoric Landscape Modification near Ozette, Washington: The Makah Were More Than Whalers, *Annual Meeting of the Association of Pacific Coast Geographers, Portland, OR*.

- Bach, A.J. (2003) The Role of Geo-Science in Sustainability: A Water Resource Example, *Annual Meeting of the Association of Washington Geographers, Everett, WA.* (invited Keynote)
- Bach, A.J., Conca, D., DuBose, K., Friskopp, G., Gutchwesky, M., and K.H. Ramsden. (2003) Fire Modification to Ahlstrom's and Roose's Prairies near Ozette, WA *56th Annual Meeting of the Northwest Anthropological Conference, Bellingham, WA.*
- Bach, A.J., Conca, D., Friskopp, G., Gutchwesky, M., Ramsden, K.H., and K. DuBose. (2003) Anthropogenic Modification to 'Natural' Lowland Wilderness Wetlands, Olympic National Park, Washington. *Annual Meeting of the Association of American Geographers, New Orleans, LA.*
- Bach, A. (2002) Influences of Glacier Meltwater on a Watershed, North Cascades, Washington. *Annual Meeting of the Association of American Geographers, Los Angeles, CA.*
- Bach, A. (2001) Modeling Glacier Contribution to Streamflow in the Nooksack Watershed, *North Cascades Glacier-Climat Symposium, Mount Vernon, WA.*
- Bach, A. and K. Cykler (2001) The Declining Sockeye Salmon (*Oncorhynchus nerka*) Population in Lake Ozette, Washington. *Spring Meeting of the Association of Washington Geographers, Bellingham, WA.*
- Bach, A. (2000) Ventifacts Cut by Katabatic Winds. *Spring Meeting of the Association of Washington Geographers, Ellensburg, WA.*
- Bach, A. (2000) Environmental Factors Lending to a Declining Sockeye Salmon (*Oncorhynchus nerka*) Population in Lake Ozette, Washington. *Annual Meeting of the Association of American Geographers, Pittsburgh, PA.*
- Bach, A.J., (1999) The Contributions of Mt. Baker Glaciers to the Water Resources of Whatcom County, Washington. *Annual Meeting of the Association of American Geographers, Honolulu, Hawai'i.*, p.23.
- Baumgarten, K., Bach, A. and J. Riedel (1999) Local Factors Influencing the Mass-Balance of North Cascades glaciers, Washington, 1992-1999. *Annual Meeting of the Association of Pacific Coast Geographers, Reno, Nevada.*
- Bach, A.J. (1997) Assessing Conditions Leading to Severe Wind Erosion in the Antelope Valley, California, 1990-1991. *Annual Meeting of the Association of Pacific Coast Geographers, Spokane, Washington*, pp. 12-13. Abstract published in: *1998 Association of Pacific Coast Geographers Yearbook*, Vol. 60, p.201.
- Bach, A.J., Brazel, A.J., and Nick Lancaster (1997) Climatology of Blowing Dust in the Mojave and Colorado Deserts, California, 1973-1994. *Annual Meeting of the Association of American Geographers, Ft. Worth, Texas*, pp. 12-13.
- Bach, A.J., and A.J. Brazel (1995) Why aren't the sand dunes of Southern California's deserts actively moving?, *Annual Meeting of the Association of American Geographers, Chicago, Illinois*, pp. 12-13.

- Bach, A.J. (1994) Ventifact formation in relation to Pleistocene glaciers, eastern Sierra Nevada, CA, *Annual Meeting of the Association of American Geographers, San Francisco, California*, p.13.
- Bach, A., Brazel, A., and S. Brazel (1994) Climate of the Mojave Desert and relation to sand dune activity, *Journal of the Arizona-Nevada Academy of Science*, 29: 47.
- Bach, A.J., Phillips, F.M., Zreda, M., Elmore, D., Dorn, R., Elliott-Fisk, D., Liu, T., and J. Clark. (1993) Last 200,000 years of glacial history at Bishop Creek, eastern Sierra Nevada, *U.S. Geological Survey Conference on Paleoclimates of the Northern Great Basin*, at Reno, NV, May, 1993.
- Bach, A.J. (1992) 200,000 years of glacial geomorphology at Pine Creek, *Annual Meeting of the Association of American Geographers, San Diego, California*, p.10.
- Bach, A.J., Elliott-Fisk, D.L., and R.I. Dorn. (1991) Verification of glacial sequence at Pine Creek, California by soil profile development analysis, *Annual Meeting of the Association of American Geographers, Miami, Florida*, p.8.
- Bach, A.J., Dorn, R.I., Elliott-Fisk, D.L., and F.M. Phillips. (1991) Glacial avulsion as seen in Pleistocene glacial moraine complexes of the east-central Sierra Nevada, *University of California, White Mountain Research Station, History of Water Symposium*, p.3-4.
- Bach, A.J., Dorn, R.I., Elliott-Fisk, D.L., and F.M. Phillips. (1991) Paleo-hydrological and paleo-climatological implications of glacial moraine complexes from Pine Creek, Bloody Canyon and Bishop Creek, eastern Sierra Nevada, *University of California, White Mountain Research Station, History of Water Symposium*, p.3.
- Bach, A.J., Elliott-Fisk, D.L., Liu, T., Dorn, R.I., Phillips, F.M., and M. Zreda. (1991) Pleistocene glacial moraine complexes at Pine and Bishop Creeks east-central Sierra Nevada, *Geological Society of America Annual Meeting, San Diego, California*.

CO-AUTHORED PAPERS PRESENTED BY OTHERS AT PROFESSIONAL MEETINGS

- Snyder, J., Bach, A.J., Hanell, C. and E. Siedlecki (2007) Soil Development on Alluvial Terraces of the Elwha River, Washington, to be presented at *Annual Meeting of the Association of American Geographers, San Francisco, CA*.
- Wilkerson, F.D., Schmid, G.L., Aldis, D.F., Bach, A., and D. R. Butler (2003) A preliminary assessment of aeolian deposited alpine gravels, Glacier National Park, Montana. *Annual Meeting of the Association of American Geographers, New Orleans, LA*.
- Friskopp, G., Bach, A., Gutchwesky, M., and K.H. Ramsden (2003) Evidence of Depodzolization in Lowland Meadows (The Ozette Prairies), Olympic National Park, Washington, USA *Annual Meeting Association of American Geographers, New Orleans, LA, March 2003*.
- Gutchwesky, M., Bach, A.J., Friskopp, G., and K.H. Ramsden (2003) A Paleocological Analysis of Peatland Sediments Taken from the Ozette Prairies, Olympic National Park,

Washington *Annual Meeting of the Association of American Geographers, New Orleans, LA, March 2003.*

Ramsden, K.H., Bach, A.J., Friskopp, G., Gutchwesky, M., and K. DuBose. (2003) An Examination of the Recent Encroachment of Trees onto Lowland Forest Meadows, Olympic National Park, WA *Annual Meeting of the Association of American Geographers, New Orleans, LA, March 2003.*

DuBose, K., Woolett, S., Bilderback, E., Friskopp, G., Armes, S., Lagueux, K., Conca, D., and A. Bach (2002) Soil Evidence for Fire Expansion of the Ozette Prairies, Olympic National Park, Washington. *Annual Meeting of the Association of American Geographers, Los Angeles, CA.*

Lancaster, N., Bach, A.J., and A.J. Brazel (1995) Regional patterns of winds and aeolian activity in the deserts of Southern California, *Annual Meeting of the Association of American Geographers, Chicago, Illinois*, p.116.

Elliott-Fisk, D.L., Bach, A.J., and T.W. Swanson. (1992) Late Quaternary soils of the Owens Valley region, eastern California, *Annual Meeting of the Association of American Geographers, San Diego, California*, p.66.

Elliott-Fisk, D.L., Kenworthy, D., Long, Z., and A.J. Bach. (1990) Soil diversity in an Alexander Valley vineyard, Sonoma County, California, as an influence on viticulture and wines, *Annual Meeting of the American Society for Enology and Viticulture, Los Angeles, California*, p. 26.

GRANTS RECEIVED AND AWARDS

2009 - Nominated for WWU Excellence in Teaching Award.

2008 - Nominated for WWU Excellence in Teaching Award.

2003 - Cooperative Ecosystems Studies Units- National Park Service \$22,000. "Natural History of Ahlstrom's and Roose's Prairies, Washington" in collaboration with David Conca (National Park Service).

2002 - Alfred Sloan Foundation \$4000: "Feasibility of a Professional Master's Degree in Geographic Information Systems" in collaboration with Moheb Ghali (graduate school) and Mike Medler (geography).

2002 - WWU Student Technology Fee Award \$32,437: "Upgrade of Spatial Analysis Lab" in collaboration with Gene Hoerauf (geography). For upgrade for 22 seat GIS computer lab to 30 seat.

2001 - Bureau of Faculty Research Summer Research Grant, Western Washington University,

"Natural History of the Ozette Prairies, Olympic National Park, Washington." \$5000.

- 2001 - Cooperative Ecosystems Studies Units- National Park Service \$12,641. "Natural History of Ahlstrom's and Roose's Prairies, Washington" in collaboration with David Conca (National Park Service).
- 2001 - Cooperative Ecosystems Studies Units- National Park Service \$12,281. "Impact of Soil Erosion on the Declining Sockeye Salmon Population in Lake Ozette, Washington" in collaboration with David Conca (National Park Service).
- 2000 - WWU Faculty Development Award \$1,145: "Topographic Map Classroom Sets" in collaboration with Tom Terich (geography). For 19 class sets of topographic maps to be used for teaching purposes.
- 2000 - WWU Student Technology Fee Award \$22,675: "Upgrade of Spatial Analysis Lab" in collaboration with Gene Hoerauf (geography). For upgrade a 22 seat GIS computer lab.
- 1999 - WWU Student Technology Fee Award \$71,376: "Global Positioning Systems" collaboration with Dave Wallin (environmental science), Gene Hoerauf (geography), Doug Clark (geology), Elizabeth Schermer (geology), Sarah Campbell (anthropology), Todd Koetje (anthropology), Roger Anderson (biology), and David Hooper (biology). For a class set of 16 GPS units.
- 1998 - Nominated for WWU Excellence in Teaching Award.
- 1997 - WWU Student Technology Fee Award \$153,000: "Spatial Analysis Lab" in collaboration with Dave Wallin (environmental science), Pat Buckley (geography), Jim Talbot (geology), Richard Berg (geology), Gene Hoerauf (geography). For a 22 seat GIS capable computer lab.
- 1997 - Bureau of Faculty Research, Western Washington University, \$5000. "Creating a Workbook for Geography 351, *Map Reading and Analysis*"
- 1997 - Finalist in Nystrom Competition, an award from the Association of American Geographers based upon a recent dissertation in the field of geography. Finalists are selected based upon "clarity and effectiveness of a written paper and quality and effectiveness of an oral presentation at the annual meeting of the AAG." For my paper: "Climatology of Blowing Dust in the Mojave and Colorado Deserts, California, 1973-1994." presented at the *Annual Meeting of the Association of American Geographers in Ft. Worth, Texas*.
- 1996 - Bureau of Faculty Research Summer Research Grant, Western Washington University, "The Contributions of Mt. Baker Glaciers to the Water Resources of Whatcom County" \$5000.
- 1995 - Honorable mention in student paper competition from Climate Specialty Group for paper presented at AAG annual meeting.
- 1995 - Arizona State University Graduate College Travel Award.
To present PhD work at AAG annual meeting.
- 1994 - Sigma Xi research grant, \$400.
"Climatic Controls on Sand Mobility in the Mojave Desert, California"
- 1994 - National Science Foundation Dissertation Improvement Grant, \$7108.

"Climatic Controls on Sand Mobility in the Mojave Desert, California"

1993 - Geological Society of America research grant, \$1500.

"Testing the Calibration of Chronosequences on Pleistocene Glacial Moraines,
Bishop Creek, eastern Sierra Nevada, California"

1992 - Travel grant, University of California, Davis. To present M.A. work at AAG annual meeting.

1991 - White Mountain Research Station grant, \$1000.

"Pleistocene Glacial Chronology of Pine Creek, California"

1991 - Graduate Research Award, University of California, Davis, \$750.

"Deglaciation of Sierra Nevada Since the Last Glacial Maximum"

1990 - Graduate Research Award, University of California, Davis, \$1300.

"Pleistocene Glacial Chronology of Pine Creek, California"

1990 - White Mountain Research Station grant, \$1000.

"Pleistocene Glacial Chronology of Pine Creek, California"

1990 - Penrose Conference, Geological Society of America, \$500 fee waiver for G.S.A.

Penrose Conference on "New Methods for Dating Geomorphic Surfaces"

1988 - Outstanding Undergraduate Award, Department of Geography, U.C. Davis.

TEACHING EXPERIENCE

I have taught a full teaching load every term, except one sabbatical term, while at WWU. My teaching load has been diverse (rarely have I had repeat classes in an academic year, and many of my classes alternate years), and has changed over time as Huxley College curriculum has evolved. Below is a list of courses taught, the number in parentheses is the number of times taught. A few one time offerings are not listed.

EGEO 203 Physical Geography (17)

EGEO 305 Analysis of Spatial Data (7)

EGEO 331 Climatology (16)

EGEO 332 The Soil Landscape (12)

EGEO 351 Map Reading and Analysis (13)

EGEO 352 Computer Cartography (6)

EGEO 431 Water Resources (7)

EGEO 432 Soil Landscapes (4)

EGEO 433 Climate and Biophysical Processes (8)

ESTU 301 Explorations in Environmental Studies (2)

ESTU 306 Introduction to Huxley College (4)

Summary of Recent Student Quantitative Evaluations

The numerical score (5 is best) is from the student evaluation question "Instructor's contribution overall to the course was:"

Winter 2012		Fall 2011	
EGEO 203 Intro. to Physical Geog.		EGEO 331 Climatology	4.79
EGEO 332 Soil Environment		EGEO 351 Map Reading	4.66
Spring 2011		Winter 2011	
EGEO 327 Pacific Northwest	4.75	EGEO 332 Soil Environment	4.71
EGEO 432 Soil Landscapes	4.85	EGEO 351 Map Reading	4.79
Fall 2010		Spring 2010	
EGEO 203 Intro. to Physical Geog.	4.56	EGEO 203 Intro. to Physical Geog.	4.68
EGEO 331 Climatology	4.83	EGEO 432 Soil Landscapes	4.85
EGEO 497F Washington Atlas	n/a		
Winter 2010		Fall 2009	
EGEO 332 Soil Environment	4.81	EGEO 331 Climatology	4.67
EGEO 351 Map Reading	4.58	EGEO 431 Water Resources	4.48
EGEO 305 Analysis of Spatial Data*	3.65		
* co-taught with Dr. Buckley			
Spring 2009		Winter 2009	
EGEO 433 Climate and Biophysical	4.86	EGEO 332 Soil Environment	n/a
EGEO 203 Intro. to Physical Geog.	4.46	EGEO 351 Map Reading	n/a
Fall 2008		Spring 2008	
EGEO 331 Climatology	4.68	EGEO 432 Soil Landscapes	4.67
EGEO 351 Map Reading	4.74	EGEO 203 Intro. to Physical Geog.	4.25
Winter 2008		Fall 2007	
EGEO 397S Soil Environment	4.29	EGEO 331 Climatology	4.61
EGEO 431 Water Resources	4.68	EGEO 305 Analysis of Spatial Data	4.40

SERVICE

Contributions to Academic Policy and Program

Advising and Graduate Program

Sept. 1995 - present. Advisor for 100s of geography undergraduates.

Sept. 1995 - present. Advisor for dozens of internships and independent projects.

Fall 2011 – present. Assisted in setting up internship program with NOAA-Sand Point.

May 2009. My advisee, Chris Robertson, won the outstanding poster presentation at the Sigma Xi/College of Science and Technology Annual Poster Session.

Summer 2005-2008 WWU SummerStart Advising (Freshman)

Summer 2005-2007 WWU Transitions Advising (Transfer Students)

Geography Graduate Program Advisor (Winter, 2002 – Fall, 2006).

Sept. 1995 - present. Served on 32 graduate student committees (26 geography, 4 environmental science, 1 anthropology and 4 geology). Acting as chair for thirteen:

Andy Boyce (geography), "Using Satellite Imagery to Detect Forest Disturbances in Northwest Washington and Southwest British Columbia from 1973 to 1995"
Completed Spring 1999.

Ken Strickler (geography), "Identification of the Geographical Impacts of College Football Production and Migration" Completed June 1998.

Kasey Cykler (geography), "Hydrologic Impacts on the Salmon Population in Lake Ozette, WA," Completed Spring 2001.

Nancy West (geography), "Relationship Between Suicide Rate and Location in the U.S." Completed Spring 2002.

Todd Newburger (geography), "Ecological Consequences of Recreation: A Case Study of Trapper Lake, North Cascades National Park," Winter 2004

Mark Gutchewsky (geography), "A Paleoenvironmental Reconstruction of the Ozette Prairies from Analysis of Peatland Cores, Olympic National Park, Washington," Spring 2004.

Kate Ramsden (geography), "Spatial and Temporal Patterns of Recent Tree Encroachment on the Ozette Prairies, Olympic National Park, Washington," Spring 2004.

Joe Wood (geography), "Using the Precipitation Temperature Area Altitude Model to Simulate Glacier Mass Balance in the North Cascades." Spring 2006

Kara Symonds (geography), "Targeting Watershed for Enrollment in the Conservation Reserve Enhancement Program (CREP) in Whatcom County, Washington," Fall 2006.

Robert Knapp (Environmental Science) “North American Beaver (*Castor Canadensis*)
Habitat Use in the Olympic Peninsula’s Elwha Valley” Winter 2009

Jennifer Sears (geography), “Terrior of Wine Growing Regions is eastern Washington,”
in progress.

Paul Whelan (geography), started Fall 2011

Josh Jones (geography), started Fall 2011

SERVICE: WWU, Huxley College, and Departmental Committees

Geography Graduate Committee, Chair (Fall 2011-present)

Ad Hoc Physical Geography Search Committee (Fall 2011)

Faculty Development Committee (Fall 2011- present)

Huxley Bylaws Amendment Committee (Fall 2010-Spring 2011)

Huxley Curriculum Committee (Fall 2007 – Spring 2011) Chair (Fall 2007, Fall 2008-Spring 2010)

Geography Program Coordinator, Department of Environmental Studies (Fall 2008-present)

Tommy Gaines Research Stipend Committee (Fall 2006 – present)

Map Library Committee (Fall 2008 – present)

Spatial Analysis Lab Working Group- oversees management of 22 seat computer lab (1996 - present).

Extended Education and Sponsored Programs Whitepaper Committee (Fall 2009-Spring 2010)

WWU Academic Coordinating Committee, Huxley College representative (Fall, 2009)

Department of Environmental Studies ad hoc committee for Student Awards (Spring 2008)

Department of Environmental Studies Chair Selection Committee (Winter 2008)

Search Committee, Huxley Student Advisor (Winter 2008).

Chair, Huxley Academic Technology Committee (Fall 2006 – Spring 2007).

Search Committee, Dept. Environmental Science (Fall 2005 – Winter 2006).

Chair, Geography Graduate Program Committee (Winter, 2002 – Fall, 2006).

Search Committee, Dept. Environmental Studies (Spring 2005).

Chair, tenure-track Search Committee, Dept. Environmental Studies (Fall 2003 - Spring 2004).

Chair, Huxley Academic Technology Committee (Fall 1998 - Spring 2001).

Geography Graduate Committee (Fall 1995 - Spring 2000, Fall, 2001- Fall 2006).

Chair, Huxley Integration Committee (January - June 2000).

WWU Academic Technology Committee (Fall 1998 - Spring 2001).

WWU Embedded Chip Problem Assessment and Mitigation (Y2K) Program (1998 - 1999).

GESS Ad Hoc Committee on Revision of Planning and Env. Policy Major (1997).

GESS Ad Hoc Committee on Revision of Geography Major (1997).

GIS-Environmental Science faculty position search committee (January 2001- June 2001).

GIS Specialist search committee (November 2000 - July 2001).

Environmental Chemistry faculty position search committee (Fall 1997).

SERVICE: Outreach- Community Service

January 2012 Guest lecture in ESTU 297 Sustainability Literacy

April 2011- present. Member of planning team for the Geo-Literacy Alliance of Washington. A National Geographic Society funded planning effort to develop a statewide plan for improving geography education.

March 2011 Guest lecture in ESTU 297 Sustainability Literacy

Fall 2009- present. advisor and volunteer for development of demonstration garden at Roosevelt Elementary School, Bellingham.

October 2009 Participant in Compass 2 Campus Program, demonstrated river dynamics with sediment model to 5th graders.

Summer 2008 – Fall 2009 Science Coordinator Elwha Research Consortium

October 2008 Invited presentation for Department of Environmental Studies: “The Amazing Landscapes of Central Washington”

March, 2008 Invited presentation for the League of Women Voters: “World Water Resources”

March 2008 Invited presentation for Department of Environmental Studies: “Grant Writing”

Nov. 2007 Invited presentation for Huxley College: “The Elwha River Project”

May 2005 Invited paper for Native Plant Society, Bellingham

Jan. 2002- present Reviewer for Washington State Board on Geographic Names. Reviewing proposed place name changes.

Oct. 2003- March 2005 Consultant for Bellingham Park and Recreation, development of new disc golf course.

Feb. 2003 Invited paper at Olympic National Park, Port Angeles, WA

Feb. 2003 Invited paper at University of Washington, Dept. of Environmental Science

Dec. 2001 Invited paper at United States Geological Survey Office, Tacoma, WA.

Oct. 2001 Invited paper at North Cascades Glacier-Climate Symposium, sponsored by North Cascades National Park. “Modeling Glacier Contribution to Streamflow in the Nooksack Watershed.”

July 2001 Invited lecture at Olympic National Park, “Origin and Evolution of the Ozette Prairies.”

April 2000 Presented paper and chaired session at the Association of Washington Geographers Annual Meeting in Bellingham, WA.

- Jan. 2001 Lectured in Geography 421 "Borderlands", co-offered at University College of the Fraser Valley, on physical geography across the border in the Fraser Lowland.
- March 2000 Lectured in Geography 421 "Borderlands", co-offered at University College of the Fraser Valley, on physical geography across the border in the Fraser Lowland.
- Sept. 1999 Talked to 5th grade class at East Burney Elementary School, Calif.
- March 1999 Led course field trip to O'ahu and Hawai'i.
- Fall 1995 Participant in Whatcom County Watershed Information Network. A committee of county and city employees interested in providing information to the public on water related issues.
- March 1995 Reviewer of "Geologic Guidebook to the Mono Basin" by Tim Tierney, Mono Lake Committee.
- Dec. 1994 Lecture/talk with Third Grade students at Sanborn and Goodman Elementary Schools in Gilbert, AZ about weather.
- Nov. 1994 Invited participant in "Late-Quaternary History of the Sierra Nevada Ecosystems Workshop," at the Institute of Forest Genetics, Placerville, CA, sponsored by the Sierra Nevada Ecosystem Project (U.S. Forest Service).
- Summer 1993 Participant in Arizona Thunderstorm Chasers Program, co-sponsored by the Dept. of Geography at Arizona State University and the National Weather Service.
- Nov. 1991 Talk at Mariposa County High School on how to prepare for college

SERVICE: Professional Organizations and Scholarship

- October 2011. Reviewed grant proposal for National Science Foundation: Geography and Regional Science Program
- April 2011 Co-leader (Karl Lilliquist) for day long fieldtrip for the *107th Annual Meeting of the Association of American Geographers, Seattle, WA. Catastrophic Missoula Floods and Central Washington's Channeled Scablands.*
- March 2011. Reviewed manuscript for journal *Hydrological Processes*
- October 2010. Reviewed text book *Soils Genesis and Geomorphology* 1st edition by R. Schaetzl and S. Anderson for Cambridge Press Publishers.
- October 2010. Reviewed manuscript for journal *Hydrological Processes*
- May 2010. Coordinated poster session for joint Huxley College Reunion and Association of

- Washington Geographers meeting. Supervised 29 undergraduate student projects that were presented at session.
- April 2008 Reviewed grant proposal for *National Science Foundation: Geography and Regional Science Program*
- March 2008 Led day long fieldtrip with 57 participants to Mt. Baker for the *50th Annual Meeting of the Western Division, Canadian Association of Geographers, Bellingham WA.*
- April 2006-Nov. 2007
Grant Review Panelist for National Science Foundation: Geography and Regional Science Program. Requires two annual trips to Washington D.C. to review ~20 grant proposals.
- July 1999-present. Archivist for the Association of Pacific Coast Geographers.
- Member of the Association of American Geographers, Association of Pacific Coast Geographers, Association of Washington Geographers and the American Water Resources Association.
- Jan. -Apr. 2003. Nominations committee for the Association of Pacific Coast Geographers.
- Sept. 2000 Reviewed research article for *Annals of the American Association of Geographers.*
- Aug. 2000 Reviewed grant proposal for *National Science Foundation: Geology and Paleontology Program.*
- 1998- 2000 Program Committee Member for *Canadian Association of Geographers Annual Meeting, Western Division, University College of the Fraser Valley, Abbotsford, B.C., March, 2000.*
- June 1999 Reviewed text book *Map Use and Analysis* 3rd edition by John Campbell for McGraw-Hill Publishers.
- March 1999 Reviewed grant proposal for *National Science Foundation: Geography and Regional Science Program.*
- 1998- 2000 Program Committee Member for *Eighth International Symposium on Society and Resource Management, Bellingham, June 2000.*
- Jan. 1999 Reviewed research article for *Geological Society of America Bulletin.*
- Nov. 1998-
March 1999 Program Committee Member for *Sustainable Seas Expeditions- Olympic Coast, WA,* Sponsored by National Geographic Society and National Oceanic and Atmospheric Administration, cancelled due to funding cuts.
- Feb. 1998 Reviewed text book *Elements of Cartography* 6th edition by A.H. Robinson, *et al.* for John Wiley and Sons, Inc.
- June 1997 Reviewed grant proposals for *Assessment of Natural Environmental Research Council (U.K.)*
- Apr. 1997 Reviewed research article for *Association of American Geographers Yearbook.*

- Sept. 1993 Reviewer for article in book entitled: *Desert Aeolian Geomorphology*, V.P. Tchakerian, Editor. Chapman and Hall: New York.
- Aug. 1993 Co-leader of field trip for the International Association of Geomorphologists Third International Geomorphology Conference: "Geomorphology: Mojave Desert to Death Valley, California."
- July 1992 Co-leader of field trip for the International Geographical Congress: "Sierra Nevada and White Mountains of California."
- Apr. 1992 Organizer and chair for two special sessions at the AAG Annual Meeting in San Diego entitled: "Quaternary History of Eastern California, I and II."
- Oct. 1990 Participant in and co-leader of field trip for Geological Society of America Penrose Conference "New Methods for Dating Geomorphic Surfaces," at Mammoth Lakes, CA.