

David Cordner

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Education

- 2008 Master of Science, Resource Management, Central Washington University, Ellensburg, WA
- 1990 Bachelor of Science, Landscape Architecture, Rutgers, The State University of New Jersey, New Brunswick, NJ

Academic Certificates

- 2004 Certificate in Geographic Information Systems (GIS), Central Washington University, Ellensburg, WA

Interests

Environmental design; environmental perception; application of GIS to environmental design and planning, and public participation; and spatial web application development.

Academic Employment

- April 2012 – current Program Director, Center for Spatial Information, Central Washington University, Ellensburg, WA
- June 2005 – current Instructional and Classroom Support Technician, Department of Geography, Central Washington University, Ellensburg, WA
- Sept. 2006 – April 2012 Research Assistant, Center for Spatial Information, Central Washington University, Ellensburg, WA
- June 2004 – June 2005 Graduate Research Assistant, Department of Geography, Central Washington University, Ellensburg, WA
- Sept. 2003 - May 2004 Teaching Assistant, Department of Geography and Land Studies, Central Washington University, Ellensburg, WA
- World Regional Geography (GEOG 101), Introduction to Human Geography (GEOG 108), Introduction to Land Use Planning (GEOG 305), Ecology and Culture (ANTH/GEOG 440), and Arid Lands (GEOG 450)
- Jan. 2003 - June 2003 Supplemental Instructor, Academic Achievement, Central Washington University, Ellensburg, WA
- Introduction to Physical Geography (GEOG 107)

Academic Awards

2005 Central Washington University Master's Research Fellowship

Professional Development

2007 Safe Software, Feature Manipulation Engine (FME) data transformation platform training, Washington State Department of Transportation, GIS and Roadway Data Office, Tumwater, WA

Spatial and Scientific Software Skills

Expert knowledge of ESRI ArcGIS Desktop, Geoserver, OpenLayers web mapping API, PostgreSQL/PostGIS spatial database and MS Access. Experience with Safe Software FME, ArcGIS Server, ArcSDE, MapServer, ERDAS Imagine, MS SQL Server, SYSTAT, and Google Maps API.

GIS and Spatial Web Development Programming and Scripting Skills

Proficient in JavaScript including jQuery and Ext JS frameworks, SQL, PHP, HTML and Styled Layer Descriptor(SLD). Experience with Visual Basic and Python.

Research Experience

Research Lead: Ecosystem-Wide Processes Characterization for Kittitas County SMP Update. For: Kittitas County (through ESA Consultants) (2/12-6/12).

GIS Analyst: Wapato Reach Assessment. For: Yakama Nation (through ICF Jones and Stokes, Inc.) (10/11-3/12).

GIS Analyst and Field Researcher: Lake and Marine Aquatic Monitoring Protocol (Phases 1 and 2). For: Washington Department of Natural Resources (5/11-6/12).

GIS Analyst and Field Researcher: Monitoring of Yakama Nation Riparian Restoration Sites (Phase 3). For: Yakama Nation (5/10-3/12).

GIS Analyst and Field Researcher: Monitoring of Yakama Nation Riparian Restoration Sites (Phase 2) For: Yakama Nation (5/10-3/11).

Research Lead and Spatial Web Application Developer: Geographic Information Systems Project. Center for Spatial Information. For: USDA Cooperative State Research, Education and Extension Service Special Project Grant (8/10-7/11).

Research Lead and Spatial Web Application Developer: Geographic Information Systems Project. Center for Spatial Information. For: USDA Cooperative State Research, Education and Extension Service Special Project Grant (submitted with National Consortium for Rural Spatial Innovations in America) (8/09-7/10).

GIS Analyst: Shoreline Habitat Characterization and Analysis for the Banks Lake Fishery Evaluation Project (Phase 2). For: Washington Department of Ecology (9/08-12/09).

Researcher and Spatial Web Application Developer: Geographic Information Systems Project. Center for Spatial Information. For: USDA Cooperative State Research, Education and Extension Service Special Project Grant (submitted with National Consortium for Rural Spatial Innovations in America) (8/08-7/09).

Technical Lead and GIS Analyst: WA-Trans GIS Project (Phases 1-3). For: Washington Department of Transportation (10/07-9/08).

GIS Analyst: City of Medical Lake Shoreline Master Program Update. For: City of Medical Lake/Washington Department of Ecology (submitted with Studio Cascade) (02/04-08/05).

GIS Analyst: City of Chewelah Shoreline Master Program Update. For: Town of Chewelah/Washington Department of Ecology (submitted with Studio Cascade) (02/04-08/05).

GIS Analyst: Town of Cusick Shoreline Master Program Update. For: Town of Cusick/Washington Department of Ecology (submitted with Studio Cascade) (02/04-08/05).

Government Reports

Gabriel, A.O., J. Bowen, D. Corder, and M. Pease. 2012. RGIS-Pacific Northwest Annual Report FY 2010. Submitted as part of Consortium for Rural Geospatial Innovations in America Annual Report FY 2010 to USDA. Ellensburg: Central Washington University. 12 pp.

Project Objectives

Corder, D., and A. Gabriel. 2011. Island County Beach Watchers Coastal Resource Atlas.

http://csi.gis.cwu.edu/intertidal_monitor/index.htm

Corder, D., and A. Gabriel. 2011. SoundMap: Puget Sound Public Resource Mapping Project.

<http://www.cwu.edu/spatial-information/sound-map>

Gabriel, A.O., J. Bowen, G. Brown and D. Corder. 2010. RGIS-Pacific Northwest Annual Report FY 2009. Submitted as part of Consortium for Rural Geospatial Innovations in America Annual Report FY 2009 to USDA. Ellensburg: Central Washington University. 12 pp.

Project Objectives

Corder, D. 2010. Regional Comprehensive Visual Sensitivity Assessment for Renewable Energy Facility Development, <http://www.cwu.edu/spatial-information/visual-sensitivity-assessment>.

Corder, D., A. Gabriel, and J. Murray. 2010. Use of Geospatial Techniques to Aid Rapid Assessment, Monitoring and Aesthetic Evaluations of Lake Shorelines <http://www.cwu.edu/spatial-information/lake-shorelines>

Gabriel, A.O., D. Corder, C. Donoghue, J. Lipton, and K. Lillquist. 2009. RGIS-Pacific Northwest Annual Report FY 2008. Submitted as part of Consortium for Rural Geospatial Innovations in America Annual Report FY 2008 to USDA. Ellensburg: Central Washington University. 12 pp.

Project Objectives

Corder, D., and A. Gabriel. 2009. Use of Geospatial Techniques for Aesthetic Resource Inventories, <http://csi.gis.cwu.edu/welcome>

Gabriel, A.O., and D. Corder. 2009. Shoreline Habitat Characterization and Analysis for the Banks Lake Fishery Evaluation Project (Phase 2). Washington Department of Ecology Research Contract Report. Ellensburg: Central Washington University. 120 pp.

Gabriel, A.O., D. Corder, and B. Sainsbury 2008. Ecological Characterization of Yakama Nation Riparian Restoration Sites on the Wapato Floodplain of the Yakima River Basin, Washington. Phase 2. Final Report, Digital Map Portfolio, and Interactive Mapping System Website. Ellensburg: Central Washington University. 14 pp.

Gabriel, A.O., and D. Cordner. 2007. RGIS-Pacific Northwest Annual Report FY 2006. Submitted as part of Consortium for Rural Geospatial Innovations in America Annual Report FY 2006 to USDA. Ellensburg: Central Washington University. 34 pp.

Project Objectives

Cordner, D. Stakeholder Assessment, <http://www.cwu.edu/spatial-information/stakeholder-assessment>

Cartographic Works in Refereed Publications

Books

Figure 10.6 Changes in Noise Pollution and the Runway Configuration at O'Hare, P.320. In John Bowen. 2010. *The Economic Geography of Air Transportation: Space, Time, and the Freedom of the Sky*. New York: Routledge.

Robert Kuhlken. forthcoming. Cultural geographies of fly fishing. In Samuel Snyder, Bryon Borgelt, and Elizabeth Tobey, eds. *Rivers of Conservation*. Middleburg, Virginia: The National Sporting Library and Museum.

Refereed Journal Articles

Figure 1 Locations of the four common reed stands in Lake Poygan, WI, p. 219. In Gabriel, A.O., and L. Bodensteiner. 2011. Ecosystem functions of mid-lake stands of common reed in Lake Poygan, Wisconsin. *Journal of Freshwater Ecology*, 26 (2), pp. 217-229.

Figure 1 Location of paired armored and natural study sites, Winnebago Pool Lakes, Wisconsin, p. 107. In Gabriel, A.O. 2004. Impacts, perceptions and management of shoreline hazards and water levels in a fluctuating reservoir: a case study of the Winnebago System, Wisconsin. *Lakes and Reservoir Management*, 20 (3), pp. 197-210.

Non-refereed Publications

Abbott, A., D. Cordner, and R. Hickey, 2003. *Study Maps for World Regional Geography*, Internet publication functioning as a location study guide for World Regional Geography courses.

Professional Presentations

Cordner, D., A. Gabriel, and J. Murray. 2011. Rapid assessment, monitoring and aesthetic evaluation of lake shorelines using geospatial techniques. Poster presented at the 2011 North American Lake Management Society Symposium, Spokane, Washington, Oct. 26-28, 2011.

Cordner, D., and A. Gabriel. 2011. SoundMap: Puget Sound public resource mapping project. Poster presented at the 2011 Salish Sea Ecosystem Conference, Vancouver, B.C., October 25-27 2011.

Gabriel, A., D. Cordner, and J. Murray. 2011. An interactive web-based geospatial database for mapping and analyzing volunteer beach monitoring data. Poster presented at Coastal Zone 2011, Hyatt Regency, Chicago, Illinois, July 17-21, 2011.

Cordner, D., A. Gabriel, and T. Wachholder. 2010. Potential riparian and wetland impacts due to increases to full pool levels, Banks Lake, Washington. Poster presented at Isolated Wetlands: Discovering

Connections. The Pacific Northwest Chapter of the Society of Wetland Scientist's 2010 Chapter Conference. Lakeway Inn and Convention Center, Bellingham, Washington: April 28-30, 2010.

Gabriel, A., and D. Corder. 2010. Assessment of scenic preferences and aesthetic resources in Washington State coastal parks using internet-based geospatial techniques. Poster presented at Coastal Zone Canada 2010: Healthy Oceans – Strong Coastal Communities, University of Prince Edward Island, Charlottetown, Prince Edward Island, Canada, July 24-29, 2010.

Corder, D. 2009. Kittitas County Open Mapping Project. Poster presentation at the 2009 Association of American Geographer Annual Meeting, Las Vegas, Nevada. March 22-27, 2009.

Gabriel, A., and D. Corder. 2009. An internet-based, geospatial technique for assessing scenic preferences and aesthetic resources for Washington State Parks. Presented at North Dakota GIS Users' Conference 2009, Grand Forks, North Dakota, November 1-4, 2009.

Corder, D., A. Gabriel, and B. Sainsbury. 2007. Using ArcReader for ecological characterization of shorelines and wetlands in eastern Washington. Presented at the 2007 Southwest Users Group Conference, Oct. 30 - Nov. 1, 2007, La Fonda on the Plaza, Santa Fe, New Mexico.

Gabriel, A., D. Corder, D. Parrish, C. Donoghue, T. Gates. 2005. An interactive Decision Support System for marine shoreline characterization. Presented at the 2005 Puget Sound Georgia Basin Research Conference, Washington State Convention and Trade Center, Seattle, Washington, March 29-31, 2005.

Corder, D., 2003. *Ellensburg Urban Stream Characteristics*, Poster presented at the Association of Washington Geographers Spring Meeting, April 12, 2003, Everett, WA.

Other Presentations

Corder, D. 2006. Community places: Mapping landscape meaning in the community of Ellensburg, WA, Presented at the 2006 Central Washington University Symposium on University Research and Creative Expression, May 23, 2006, Ellensburg, WA.

Web Development

Central Washington Historical Aerial Photograph. Department of Geography, Central Washington University. (Published 8/13). Access at: http://www.gis.cwu.edu/geog/historical_airphotos

Island County Beach Watchers Coastal Resource Atlas. Center for Spatial Information, Central Washington University. (Published 6/10). Access at: http://csi.gis.cwu.edu/intertidal_monitor

Sound Map. Center for Spatial Information, Central Washington University. (Published 8/10). Access at: <http://www.gis.cwu.edu/geog/soundmap>