

## Curriculum Vitae

**CHERIE NORTON, Ph.D.**

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### EDUCATION:

Ph.D.	University of California Berkeley, California	1987	Geography
M.A.	University of California Berkeley, California	1982	Geography
B.A.	University of California Berkeley, California	1980	Anthropology with Honors
B.A.	University of California Berkeley, California	1980	Geography

### DIRECTORSHIPS:

2003	Alaska Space Grant Program (NASA)	UAA Affiliate Director
2001 – 2004	GINA Geographic Information of Network of Alaska University of Alaska Anchorage	Training Node Director

### PREVIOUS ACADEMIC POSITION:

1999 – 2004	Department of Geomatics University of Alaska Anchorage	Associate Professor
1987 – 1999	Department of Geography University of California Berkeley, CA 94720	Lecturer/Department Cartographer

### PRIVATE INDUSTRY:

1983 – Present	Mapping Solutions P.O. Box 230329 Anchorage, Alaska 99523-0329	Principal
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Owner and founder of Mapping Solutions, a firm that prepares detailed maps, utilizing computer and GIS technologies, for private industry, governments, academicians, and organizations. A comprehensive list of products is available by request.

## HONORS AND AWARDS:

- 2002            *Chancellor's Award for Exemplary Collaboration Between/Among Programs, Colleges or MAU (Major Academic Units) for GIS unit*
- 2002            First place, *UAA Technology Innovation Grant Award* for "Enhancing Geomatics Instruction, Learning, and Research Through Virtual Reality Panoramas and Other Photographic Technology"
- 2001            Election as a Fellow to the Royal Geographical Society (UK)
- 2001            *Special Achievement Award in GIS* from ESRI (Environmental Systems Research Institute) 2001 User Conference
- 2001            American Congress on Surveying and Mapping (ACSM) travel award for presentation of paper at International Cartographic Conference ICC 2001, Beijing, PRC
- 2001            UA Statewide Academic Affairs/Pacific Neighborhood Consortium award funding for attendance of the 9<sup>th</sup> Electronic Cultural Atlas Initiative (ECAI) Conference, Sydney, Australia
- 1994            Elected to the Society of Woman Geographers
- 1992            Recognition of Innovative Teaching – for University of California Regents meeting
- 1991            *University of California Special Performance Award*
- 1988            Association of American Geographers--Cartography Specialty Group, Second Place in *Student Honors Competition*, annual meeting at Phoenix
- 1986            Award in essay competition "Role of Geography as a Discipline and How to Revitalize Geographic Curriculum" Metropolitan St. College, Denver
- 1984-85        UC Berkeley COT (Committee on Teaching) Award for Distinguished Teaching
- 1980            Graduation with Honors in Anthropology, UC Berkeley
- 1980            Graduation with Great Distinction in General Scholarship, UC Berkeley
- 1980            Elected to Phi Beta Kappa

## COURSES TAUGHT AT UAA:

- GEO A137 – Principles of Mapping (3 credits)  
GEO A158 – Geomatics Computer Fundamentals (3 credits)  
GEO A290 – Select Topics in Geomatics – GIS for Anthropology (3 credits)  
GIS A 268 – Elements of Geographic Information Systems (GIS) (4 credits)  
GIS A295 – Internship in Geographic Information Systems I (3 credits)  
GIS A366 – Spatial Information Analysis and Modeling (3 credits)  
GIS A369 – Land Information Systems (3 credits)

GIS A458 – Design and Management of Spatial Data (3 credits)  
GIS A460 – GIS Senior Project (3 credits)  
GIS A468 – Integration of Geomatic Technologies (3 credits)  
GIS A470 – GIS for Facility Management and Transportation Systems (3 credits)  
GIS A495 – Internship in Geographic Information Systems (GIS) II (3 credits)

### **COURSES TAUGHT AT UC Berkeley:**

GEOG 4 – Introduction to Cultural Geography (4 credits)  
GEOG 142 – Moorea Field Course (12 credits, co-taught with other faculty)  
GEOG 179C – Travel: the how, where, what and why (2 credits)  
GEOG 182 – Rural Field Geography (3 credits)  
GEOG 183 – Cartographic Representation (4 credits)  
GEOG 186 – Map Reading, Interpretation and Analysis (3 credits)  
GEOG 187 – Advanced Cartography (3 credits)

### **OTHER COURSES TAUGHT:**

ArcGIS for Fisheries Biologists (Alaska Fisheries Society), Sitka, Alaska  
Introduction to ArcGIS and Environmental Applications for Northwest Environmental Training Center, Seattle Washington  
Introduction to GIS for Teachers, Anchorage School District  
Introduction to GIS and Community Resource Mapping, Ninestar Enterprises and Alaska Job Corps, Anchorage  
Maps, Compass and GPS, Matanuska-Susitna College, Wasilla

### **GRANTS AND FUNDED RESEARCH:**

2006      Alaska Humanities Forum *A Cultural and Historical Geography of Campbell Creek, Anchorage, Alaska.*

2003      UAA Center for Community Engagement and Learning *Community Resource Mapping and Analysis of Youth Resources in Anchorage and Palmer*

2003      National Weather Service *Alaska Aviation Weather Enhancement Utilizing Geographic Information Systems (GIS)*

2002      UAA Center for Community Engagement and Learning *Travel to Association of American Geographers Annual Meeting, March 2003 for presentation of paper and for funding of student meeting participation*

2002      Alaska Space Grant Program (NASA), *Enhancement of Geospatial Training for Work Force Development in Alaska, Student Stipends and Tuition Assistance*

2002      International Nuclear Safety Program/Department of Energy Research funding for *Enhancement of U.S. (Alaskan) Portions of the Circumpolar Map of Resources at Risk from Oil Spills in the Arctic, Subtask 3 (Radioactivity)*

2002      Alaska Space Grant Program (NASA), *Preparation of GIS and Remote Sensing Short Course and Student Support*

- 2002 UAA Faculty Development Grant, *North America 1: Looking North Today – the Book*
- 2001 UAA Faculty Development funds *Acquisition of Digital Map Files of Alaska*
- 2001 UAA TIG (Technology Improvement Grant) *Enhancing Geomatics Instruction, Learning, and Research Through Virtual Reality (VF) Panoramas and Other Photographic Technology*
- 2001 UA President's Natural Resources Grant *Creation of a Web-Based Natural Resources Atlas of Alaska Communities for K-12 Students ([www.uaa.alaska.edu/naturalresourceatlas/](http://www.uaa.alaska.edu/naturalresourceatlas/))*
- 2001 International Nuclear Safety Program/Department of Energy Research funding for *Enhancement of U.S. (Alaskan) Portions of the Circumpolar Map of Resources at Risk from Oil Spills in the Arctic*
- 2001 UAA Center for Community Engagement and Learning *Creation and Implementation of GIS-Modules for King Career Center Students in GIS A 458 – Design and Management of Spatial Data*
- 2001 UA Core Funding for the Geographic Information Network of Alaska (GINA), *an Integrated System-wide Proposal to the Data Initiative*
- 2001 UAA Research Travel Grant, *Travel to the Association of Pacific Coast Geographers annual Meeting, UC Santa Barbara*
- 2001 UAA Research Travel Grant, *Travel to Beijing, PRC, to present paper at International Cartographic Conference ICC 2001*
- 2000 UAA Center for Community Engagement and Learning *Creation of GIS-Modules for Middle School Students in GIS A 458--Design and Management of Spatial Data*
- 2000 UAA TIG (Technology Improvement Grant), *Acquisition of Computer Hardware and Software to Support Student Field Research in Geomatics and Anthropology*
- 2000 UA President's Natural Resources Grant, *Purchase ERDAS Imagine, Desktop computer, and Color Printers*
- 2000 UAA Faculty Development Grant, *Complete Repeat Photography of the Area Between Dawson Creek, B.C., and Delta Junction, Alaska, and Fairbanks and Circle City, Alaska*
- 2000 UAA Research Travel Grant, *Presentation of paper at the Association of Pacific Coast Geographers' Annual Meeting, Humboldt State University*
- 2000 UAA Research Travel Grant, *Travel to Nome for acquisition of historical photos*
- 1999 UAA Research Travel Grant, *Consultation with colleague at UC Berkeley regarding preservation of Partula snail reserve on Moorea, French Polynesia*
- 1999 UAA Faculty Development Grant, *A Geomatic Assessment and GIS Modeling of Beaver (Castor canadensis) Activity and Damage Along Campbell Creek, Municipality of Anchorage*
- 1999 Co-P.I. on *Alaska Digital Sea Ice Atlas* funded by MMS (Minerals Management Service), the Alaska Science and Technology Foundation, Cominco, and others

- 1997 UC Berkeley OED (Office of Educational Development) Instructional Mini-grant *Purchase desktop mapping software – MapInfo*
- 1997 UC Berkeley OED (Office of Educational Development) Instructional Mini-grant *Tuition for ARC/INFO Course*
- 1996 UC Berkeley OED (Office of Educational Development) Instructional Mini-grant *Geo-Images Project – Publication on the Internet of Slides of Moorea. F.P., Aerial Western North America and Floating Homes on San Francisco Bay*
- 1995 UC Berkeley OED (Office of Educational Development) Instructional Mini-grant *Develop Cartography Component for students at Gump Biological Station in Moorea, French Polynesia*
- 1983 UC Berkeley COT (Committee on Teaching) Mini-grant *Creation of Cartographic Slide Collection*
- 1982 ASUC (Associated Students of UC Berkeley) Mini-grant *Student Project in Color Cartography*

#### **POSITIONS HELD IN PROFESSIONAL SOCIETIES:**

- 2003-present US Representative to the Committee on Education and Training, International Cartographic Association
- 2001-present Arctic representative to the Electronic Cultural Atlas Initiative (ECAI), UC Berkeley at [www.ecai.org](http://www.ecai.org)
- 2000-present Membership Committee, Association of Pacific Coast Geographers
- 2000-2001 Co-Chair of the Alaska Arc User Group Conference Committee
- 1990-92 President, California Map Society (First and only woman president)
- 1988/89 Treasurer, California Map Society

#### **PUBLICATIONS:**

- 2003 “Integrating Geographic Information Systems (GIS) into Secondary Education: A Community-based Learning Experience”, in review, and chosen for submission by Educational Resources Information Center (ERIC), the world’s largest database on education, which is funded by the U.S. Department of Education and administered by the Social Studies Development Center of Indiana University
- 2003 “Let’s teach young people to respect wildlife and laws that protect them” Letter to the Editor, *Alaska Daily News*, August 19, 2003
- 2003 “The Geography of the Russell Fence”, co-authored with Thomas Eley, the *Geographical Review* (refereed), Vol 93:1, pp. 114-123.

- 2002 "Requests for increased UA funds were done with great thought" Letter to the Editor, *Alaska Daily News*, April 4, 2002
- 2002 "Beavers Go to College" in *Beaversprite*, Vol. 17, No. 2, pp. 4-5, Summer
- 2001 "Geography Undercover" co-authored with Thomas Eley, in *The Geographical Review* (Special Fieldwork Issue) Jan-April 2001, Vol. 91, Number 1-2 (refereed).
- 2001 "The Great Jesuit Surveys of China, 1705-1759." *Proceedings of the International Cartographic Conference ICC 2001*, Beijing, PRC, 2001, pp. 269-277 (refereed).
- 2001-02 "Response to Evaluation of EPPR Circumpolar Map of Resources at Risk from Oil Spills", a three-part technical report to the United States Department of Energy
- 1997 "Living on the Water: Floating Homes on San Francisco Bay" a multimedia contribution to the Geo-Images Project, published on the internet by the Geography Computing Facility, Department of Geography, University of California at Berkeley.  
(<http://geoimages.berkeley.edu/>)
- 1997 "Life in French Polynesia: Tahiti, Moorea and Tetiaroa" a multimedia contribution to the Geo-Images Project, published on the internet by the Geography Computing Facility, Department of Geography, University of California at Berkeley.  
(<http://geoimages.berkeley.edu/>)
- 1996 "Aerial Geography of Western North America" a multimedia contribution to the Geo-Images Project, published on the internet by the Geography Computing Facility, Department of Geography, University of California at Berkeley.  
(<http://geoimages.berkeley.edu/>)
- 1994 "Images of Life in Hong Kong and Environs" a multimedia contribution to the Geo-Images Project, published on the internet by the Geography Computing Facility, Department of Geography, University of California at Berkeley.  
(<http://geoimages.berkeley.edu/>)
- 1992 "Paper-Worlds: Maps vs. Reality." *Finding Your Way – The Exploratorium* 1992:10-14.
- 1990 "Maps: From Quill to Computer." Review in *Cartographic Perspectives*, No. 4 (Winter 1989-90):19-20.
- 1988 "Mapping the Unknown: Jesuit Cartography in China, 1583-1773," in the AAG's Cartography Specialty Group Occasional Paper #1, Student Honors Competition – Winning Papers, Phoenix, AZ, April 1988, pp. 10-32.

## **PUBLICATIONS FOR DEGREES:**

- 1987 Ph.D. Dissertation, *Mapping the Unknown: Jesuit Cartography in China, 1583-1773*, Department of Geography, University of California, Berkeley.
- 1982 Master's Thesis, *A Dragon on Water, A Worm on Shore: A Study of Hong Kong's Boat Population*, Department of Geography, University of California, Berkeley.

- 1981 Honor's Thesis (Department of Anthropology), "Analysis of an Acheulian Collection from Peera Nullah, Narmada Valley, India," in *Man and Environment*, Vol. V, 1981, pp. 13-31.

### CONFERENCE PAPERS, PRESENTATIONS, AND WORKSHOPS:

- 2004 "ArcView 8—Environmental Applications of GIS" a three-day workshop for Northwest Environmental Education Council, Anchorage, May
- 2003 "North America 1 Revisited, Repeat Photography of the Alaska Highway, Environmental Change along the Alaska, Hart, and Cariboo Highways" Alaska Historical Society
- 2003 "The Hidden Life of Urban Beavers" interview on *Consider This* by Rhonda McBride on KAKM (Anchorage Public Television Channel 7), to be aired in September
- 2003 Invited panel session entitled "Engaged Learning 1: Initiating and Maintaining Community-based Learning and Research Projects" for the Symposium on the Engaged University, August
- 2003 "ArcView 8—Environmental Applications of GIS" a three-day workshop for Northwest Environmental Education Council, Anchorage, May
- 2003 "Urban (and Other) Beavers in a Northern Landscape" presented to Elderhostel, Alaska Pacific University, July
- 2003 "Urban Beavers" for the Alaska Natural History Symposium, Alaska Pacific University, May
- 2002 "Researchers Discover Hidden Lives of Beavers", KTUU two-part *Assignment Alaska* by Rhonda McBride, October
- 2002 Women of Science and Technology "Maps and Map Reading" workshop presented to the Girl Scouts Susitna Council, February
- 2002 "Introduction to GIS—A Two-Day Workshop for UAA Faculty and Staff", January
- 2001 "The Great Jesuit Surveys of the People's Republic of China, 1705-1759", presented at the 20<sup>th</sup> International Cartographic Conference, Beijing, PRC, August
- 2001 "Developing a Digital Sea Ice Atlas of Alaska", presented at the annual meetings of the Association of American Geographers, New York, March
- 2001 "Being a Flat Map in a Round World" a one-day workshop on map projections at the Alaska Surveying and Mapping Conference, Anchorage, February
- 2001 "Introduction to GIS for the Classroom" through UAA Professional and Continuing Education (P.A.C.E.), a one-credit course for K-12 teachers, January
- 2001 "Community-Based Learning at the University of Alaska Anchorage" video, featured with GIS 458 students
- 2000 "North American Beaver in a Northern Urban Environment", presented at the annual

- meetings of the Association of Pacific Coast Geographers, Humboldt State University, Arcata, September
- 2000 “Assessing Beaver Habitat and its Impact in the Anchorage Bowl”, American Society of Civil Engineers Anchorage Branch, December
- 1998 “Cultural Value of Maps” colloquia presented at the Geography Department, Humboldt State University, Arcata, CA.
- 1996 “Teaching Real World Cartography” presented at the annual meetings of the Association of Pacific Coast Geographers, Sacramento, CA.
- 1996 “Moorea: Geographical Research Possibilities in a Tropical Setting” Geography colloquia, University of California, Berkeley, CA.
- 1995 “The European Cartographic Heritage in China” presented to the Society of Woman Geographers, Oakland, CA.
- 1994 “Sausalito: The Evolution of a Waterfront Community” presented at the annual meetings of the Association of American Geographers, San Francisco, CA.
- 1993 “Sausalito’s Fluid Lifestyle” presented at the annual meetings of the Association of Pacific Coast Geographers, Berkeley, CA.
- 1988 “How Maps Are Made” and “Putting China on the Map: the Western Perspective” lectures presented at the Geography Department Open House, University of California, Berkeley, CA.
- 1988 “Mapping the Unknown: Jesuit Cartography in China, 1583-1773” presented at the annual meeting of the Association of American Geographers, Phoenix, AZ.
- 1987 “China Revealed: The Role of Jesuit Missionaries in the Mapping of China” Geography colloquia, University of California, Berkeley, CA.
- 1986 Graduate Commencement Speech, Department of Geography, University of California, Berkeley, CA.
- 1985 “Fr. Matteo Ricci: First Missionary Cartographer to China” paper presented to CMS-SUC’85, an international meeting of the California Map Society and the Society of University Cartographers (UK), California State University at Northridge, CA.
- 1985 “University Geography at the Secondary School Level Works – and It Might Make a Difference” paper presented to Association of Pacific Coast Geographers, 50th Anniversary meetings, UCLA, Los Angeles, CA.

## **CONFERENCE AND EVENT ACTIVITIES:**

- 2001 Organizer of “GIS Day at UAA”, Department of Geomatics in conjunction with ESRI and National Geographic Society, November
- 2001 Co-organizer of GIS Jam sponsored by the Alaska Arc Users Group, Alaska Surveying and Mapping Conference, Anchorage, February



- 2000 Organizer of "GIS Day at UAA", Department of Geomatics in conjunction with ESRI and National Geographic Society, November
- 1999 Organizer of "GIS Day at UAA", Department of Geomatics in conjunction with ESRI and National Geographic Society, November
- 1996 Inservice leader for the Children's Discovery Museum of San Jose's "Take Another Look" mapping exhibit, August
- 1990 Organizer and convener of the California Map Society's Twenty-six General Meeting held in the Geography Department, University of California, Berkeley, CA.
- 1990 Organizer of University of California, Berkeley, Geography Department's Inservice Day for Social Science faculty in the Richmond and Albany Unified School Districts.
- 1988 Organizer of University of California, Berkeley, Geography Department's Inservice Day for the Social Science faculty of El Cerrito High School.
- 1986 Conference Coordinator for "People and Places: Geographer's World View," a symposium sponsored by UC Extension, Berkeley, CA.

**PROFESSIONAL, PUBLIC and UNIVERSITY SERVICE:**

- 2004 Final Judge for the National Geographic Bee, Anchorage
- 2003 Final Judge for the National Geographic Bee, Anchorage
- 2002 Final Judge for the National Geographic Bee, Anchorage
- 2002 Mapping assistance to the Anchorage Waterways Council – preparation of watershed maps
- 2002 UAA EXPO 2002 – hosted NASA Astronaut, Dr. Jan Davis
- 2002-03 UAA "Community Based Water Quality Assessment" project – GIS portion
- 2002 UAA representative at the "Building Ocean, Coastal and Watershed Natural Resource Information System" conference, Anchorage, July 25-26
- 2001-03 Faculty Senate Representative for the School of Engineering
- 2001-03 Graduate Academic Board member
- 2000 – Webmaster for "UAA's Resident Beavers" web site on the School of Engineering, Department of Geomatics  
[http://www.engr.uaa.alaska.edu/soe/Geomatics/Beaver\\_pages/UAA\\_resident\\_beavers.htm](http://www.engr.uaa.alaska.edu/soe/Geomatics/Beaver_pages/UAA_resident_beavers.htm)
- 2000 – Beaver Dam Removal Permit designee for the UAA beaver habitat, issued by the Alaska Department of Fish and Game – Habitat and Restoration Division

2000 Search Committee for recruitment of Associate Vice Chancellor for Facilities and Campus Services

1999-02 University Facilities Board Representative for the School of Engineering

### **PROFESSIONAL AND SCHOLARLY AFFILIATIONS:**

Association of American Geographers

Association of Pacific Coast Geographers

Society of Woman Geographers (elected)

Royal Geographical Society (fellow, elected)

National Council for Geographic Education

California Map Society

Phi Beta Kappa

### **PROFESSIONAL DEVELOPMENT:**

2002 "Remote Sensing for Spatial Analysts by NOAA", August

2002 Certificate in "Fundamentals of ERDAS Imagine v. 8.6", May

2002 "Integration of Remote Sensing and GIS", February

2000 Certificate in "Fundamentals of ERDAS Imagine v. 8.5", August

2000 Certificate in "Advancing with ERDAS Imagine v. 8.5", August

1998 Certificate in "Introduction to Arc/Info", September