

**Position** Associate Professor of Geography  
Department of Geography  
University of Northern Colorado  
Greeley, CO 80639

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**Education** 1993 Ph.D., University of Colorado, Boulder: Geography  
1987 M.A., University of Colorado, Boulder: Geography  
1984 B.A., University of Colorado, Boulder: Geography  
1984 Dip.Ed., University of Colorado, Boulder

**Work Experience**

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| 2011-15 | Associate Professor of Geography, UNC  |
| 2005-09 | Assistant Professor of Geography, UNC  |
| 2007-15 | Director Graduate Certificate in Geography Education, UNC  |
| 2000-05 | Lecturer in Geography, UNC   |
| 2003-04 | Field Course Instructor, Colorado School of Mines  |
| 2003-04 | Consultant, British Broadcasting Corporation   |
| 2002    | Lead author, British Broadcasting Corporation, Multimedia Geography  |
| 2000-03 | Lead author, Worldview Software, Hicksville, New York  |
| 1998-99 | Contributing Editor, (confidential contract; developing a secondary textbook, work completed September 1999) |
| 1994-97 | Geography Education Specialist, Encyclopaedia Britannica Educational Corporation                             |

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|                                 | 1994            | Geography Consultant, Encyclopaedia Britannica Educational Corporation  |
|                                 | 1993            | Research Associate, Institute of Arctic and Alpine Research, University of Colorado   |
|                                 | 1987-93         | Lecturer, Mountain Research Station, University of Colorado   |
|                                 | 1988-89         | Graduate Part Time Instructor, Department of Geography, University of Colorado  |
|                                 | 1986-93         | Research Assistant, The Center for Geography Education, University of Colorado  |
|                                 | 1986-87         | Teaching Assistant, Department of Geography, University of Colorado   |
|                                 | 1983, 87, 90-93 | Research Scientist, Government of Northwest Territories (NWT), Canada   |
|                                 | 1984-86         | Instructor for Earth Science, Computer Science, and Astronomy, Science Discovery Program, University of Colorado  |
|                                 | 1984-85         | Math Teacher, Boulder Valley Public Schools, Boulder, Colorado  |
| <b>Professional Academic</b>    | 2005-08         | Co-coordinator, Colorado Geographic Alliance  |
| <b>Areas of Specialization</b>  |                 | Geography education, biogeography of northern regions, arctic region, Canada, plant invasions   |
| <b>Research Areas/Interests</b> |                 | <p>Geography education is my specialty, with a research agenda that aims to assess how institutions use geography standards and use assessments to improve P-12 education. I study variables that influence student knowledge such as K-12 teacher knowledge and practice, institutional support of geography, and public policy. My interests also include professional development of teachers, both at the pre-service and in-service levels, and developing programs that improve geography education.</p> <p>Secondary interests include the perception of geography by high school students who are choosing university majors. I also conduct research into western Colorado plant invasions and reaction to invasion mitigation using tree ring analysis, transpiration measurements, and stream-flow data.</p> |

## Publications

### Juried Articles:

- 2011 **Dunn, J.M.** 2011. Location Knowledge: Assessment, Spatial Thinking, and New National Geography Standards. *Journal of Geography* 110 (2): 81-89.
- 2009 **Dunn, J.M.** 2009. Geography in the Social Studies: High School Simulation on Water Supply. *Journal of Geography* 108 (1): 21-29.
- 2004 **Dunn, J.M.** 2004. Migration Within Mexico: A Data-based Exercise for Secondary Students. *Journal of Geography* 103 pp. 249-256.
- 1992 **Dunn, J. M.** Translation and Development Theory in Geographic Education: A Model for the Genesis and Production of Geography Instructional Materials in a Competitive Funded Grant Environment. *Journal of Geography* 91 (3): 97-105.

### Books:

- 2012 **Dunn, J.M.** *Geography of North America: Activities for Large Classes, 2<sup>nd</sup> Edition.* Dubuque, Iowa: Kendall Hunt.
- 2010 **Dunn, J.M.** *Geography of North America: Activities for Large Classes.* Dubuque, Iowa: Kendall Hunt.
- 2010 **Dunn, J.M.,** Member, Model Content Standards Review Subcommittee in Geography. *Colorado Academic Standards, Social Studies, History, Geography, Civics, and Economics.* Colorado Department of Education, Office of Standards and Assessments. December, 2010.
- 2002 **Dunn, J.M., et al,** *World 21: A Multimedia/GIS World Geography Learning System.* London: British Broadcasting Corporation.
- 1995 **Hill, A.D., Dunn, J.M., and Klein, P.A., Editors.** *Geographic Inquiry into Global Issues.* Chicago: Encyclopaedia Britannica Educational Corporation.

#### Book Chapters:

- 2006      **Dunn, J.M. Contributing Scholar, *Geography Alive! Regions and People*.** Palo Alto, CA: Teacher's Curriculum Institute.
- 1992b      **Hill, A.D., Dorsey, B., Dunn, J.M., and Klein, P.** The Geographic Inquiry into Global Issues Project: Rationale, Development, and Evaluation. In A. David Hill, ed., *International Perspectives on Geographic Education*. Boulder, Colorado: Center for Geography Education.
- 1988a      **Dunn, J.M. and Jones, V.** Geography and Computers: Assessing and Using Software in Geography Classrooms. In A. David Hill, ed., *Placing Geography in the Curriculum: Ideas from the Western PLACE Conference*. University of Colorado, Boulder. pp. 24-27.

#### Technical Reports:

- 2006      **Dunn, J. M., Fonte, L., and Graffis, A.** Connecting Growth Rates of *Tamarix ramosissima* to River Discharge in Two Western Colorado Rivers (data from 1977-2002) The 2006 Tamarisk Research Conference: Current Status and Future Directions October 3 & 4, 2006 Fort Collins, Colorado.
- 1996      **Dunn, J. M.** Geographic Inquiry into Global Issues, Natural Hazards. In *The Geographic Inquirer*, Volume 1, Autumn.
- 1994      **Dunn, J. M.** Geography Field Course in the Canadian Northwest Territories. *24th Arctic Workshop, University of Colorado Boulder, March 17-19, 1994*. pp. 111-112.
- 1990a      **Hill, A.D., Dunn, J.M., and Klein, P.A.** *Instructional Materials for Global Geography, Bulletin 9*. Boulder, Colorado: Center for Geography Education.

- 1990b Hill, A.D., Dunn, J.M., and Klein, P.A.  
*Instructional Materials for Global Geography, Bulletin 10: Module Ideas*. Boulder, Colorado: Center for Geography Education.
- 1988b Dunn, J. M. *Report to the Science Institute of the Northwest Territories, Licence Number 7008*. Boulder: Institute of Arctic and Alpine Research.

#### Other Publications:

- 2006 Klein, P., and Dunn, J.M. What makes a good geography class? *Denver Post*, Perspectives Section, March 26, 2006, page 3E.
- 2003 Dunn, J.M., *Geography I* (software). Hicksville, NY: Worldview Software.

#### Professional Presentations

- 2013 Dunn, J.M. Finding Geography in Colorado's New P-12 Social Studies Standards. Presented at the annual meeting of the National Council for Geographic Education, August 3, 2013, Denver, Colorado.
- 2012 Dunn, J.M. Connections and Interactions in the Western Hemisphere: Colorado's Concept Maps, the Deluxe Edition. Presented at the Friends of Social Studies meeting, February 24, 2012, Denver, Colorado.
- 2012 Dunn, J.M. Colorado's Concept Maps Enhanced with More Geography. Presented at the Summer Institute of the Library of Congress Teaching with Primary Sources, UNC Campus, Greeley, CO, June 26, 2012.
- 2012 Dunn, J.M. Infusing Geography Using Concept Maps: A Colorado Example. Presented at the annual meeting of the National Council for Geographic Education, October 4-7, 2012, San Marcos, Texas.
- 2009 Dunn, J.M. The Whys and Hows of Where: A Geographer's Standard of Location. Presented at the annual meeting of the National Council for Geographic Education, September 23-27, 2009, San Juan, Puerto Rico.
- 2008 Dunn, J.M. Learning Geography Concepts Through the Grades. Presented at the annual meeting of the

- National Council for Geographic Education, October 10, 2008, Dearborn, Michigan.
- 2008 **Dunn, J.M.** *Arctic Geography: A Cold Place for a Hot Topic*. Presented at the Academy—Cities and Regions of Destiny. September 23, 2008, Denver, Colorado.
- 2008 **Dunn, J.M.** *High School Simulation on Water in the West*. Presented at the annual meeting of the Colorado Council for the Social Studies, April 11, 2008, Denver, Colorado.
- 2007 **Dunn, J.M.** *Geography Teacher-Consultants: The Next Generation*. Presented at the annual meeting of the National Council for Geographic Education, October 19, 2007, Oklahoma City, Oklahoma.
- 2007 Klein, P., and **Dunn, J.M.** *Evaluating the Impact of Professional Development*. Presented at the annual meeting of the National Council for Geographic Education, October 20, 2007, Oklahoma City, Oklahoma.
- 2007 **Dunn, J.M.** *Outreach and Professional Development Efforts of the Colorado Geographic Alliance during No Child Left Behind*. Presented at the annual meeting of the National Council for the Social Studies, November 30, 2007, San Diego.
- 2006 Klein, P. and **Dunn, J.M.** November 7, 2006 *Trend or Destiny? Changing Regional Relationships in the 21<sup>st</sup>. Century*. Cities and Regions of Destiny Course, Denver, Colorado.
- 2006 **Dunn, J.M.** Innovative Approaches to Teaching Foreign Languages and Social Studies. Global Perspectives: Creating Innovative K-20 and Public-Private Partnerships for International Education in Colorado, May 12, 2006, Colorado Springs, CO.
- 2005 **Dunn, J.M.**, Kenney, M., and Allen, S. Smooth Highway or Rocky Road? A Journey from Standards to District Assessments. Presented at the annual meeting of the National Council for Geographic Education, October 13-15, 2005, Birmingham, Alabama.
- 2003 **Dunn, J.M.** *World 21: A Secondary Multimedia World Geography Workshop*. Presented at the annual meeting of the National Council for Geographic Education, October 9-10, 2003, Salt Lake City, Utah.
- 2003 **Dunn, J.M.** and Aske, D. What is the best way to train elementary teachers in the Social Sciences? Hawaii International Conference on Social Sciences June 13-15, 2003, Honolulu.

- 2002 **Dunn, J.M.** *World 21: A Secondary Multimedia World Geography Program*. Presented at the annual meeting of the National Council for Geographic Education, October 16-19, 2002, Philadelphia.
- 1996 **Dunn, J.M., Hill, A.D., and Klein, P.** Assessing Geographic Inquiry into Global Issues for national geography standards. *AAG Annual Meeting Program and Abstracts, April 9-13, 1996, Charlotte*. Washington D.C.: Association of American Geographers.
- 1994 Geography Field Course in the Canadian Northwest Territories. *24th Arctic Workshop (1994), INSTAAR, University of Colorado, March 17-19*.
- 1993 The Author's Perspective on the Creation of Educational Print Materials for Geography. *AAG Annual Meeting Program and Abstracts, April 6-10, 1993, Atlanta*. Washington D.C.: Association of American Geographers.
- 1992a The Geographic Inquiry into Global Issues Project: Rationale, Development, and Evaluation. Co-presented by A.D. Hill, B. Dorsey, J.M. Dunn, P.A. Klein. *AAG Annual Meeting Program and Abstracts, April 18-22, 1992, San Diego*. Washington D.C.: Association of American Geographers.
- 1992b Authoring Geography Materials for Secondary Schools. Presented at the annual meeting of the National Council for Geographic Education, September 22-27, 1992, Santo Domingo, Dominican Republic.
- 1991a New Global Geography Instructional Materials: Revised Development Model. *AAG Annual Meeting Program and Abstracts, April 13-17, 1991, Miami*. Washington D.C.: Association of American Geographers.
- 1991b Learning Outcomes From an Undergraduate Geography Field Course Taught in the Canadian Arctic. Presented at the annual meeting of the National Council for Geographic Education, October 23-26, 1991, St. Paul, Minnesota.
- 1990a Translating the Discipline for Education: A Program to Develop Precollegiate Instructional Materials. Co-authored by A.D. Hill and J.M. Dunn, presented by J.M. Dunn. *AAG Annual Meeting Program and Abstracts, April 19-22, 1990, Toronto*. Washington D.C.: Association of American Geographers.
- 1990b Translation and Development Theory in Geographic Education: Processes in the Genesis of Original Geography Instructional Materials (NSF Grant No.

MDR 9050204). Presented at the annual meeting of the National Council for Geographic Education, November 7-10, 1990, Williamsburg Virginia.

## Funded Projects

*Co-Coordinator, Colorado Geographic Alliance.* \$327,813 grant from National Geographic Society to direct the Alliance with Dr. Phil Klein. Grant duration is three years, beginning Fall 2005, ending Spring 2009.

*Travel Grant UNC SPARC and Geography Program:* Present research at the National Council for Geographic Education, September 2009.

*Travel Grant UNC Arts and Sciences:* Present a workshop at the International Conference on the Social Sciences, June 2003.

*Travel Grant UNC Geography Department:* Presentation at the annual meeting of the National Council for Geographic Education in Philadelphia, PA. October 2002.

*Geographic Inquiry into Global Issues (GIGI)* (NSF 1990-1993) \$600,000 grant. Research Assistant; my jobs included administration, editing, design input, reflective research, presentations, and publications.

*Center for Geography Education* (NGSEF, State of Colorado, Gates, and others, 1986-1993). I helped organize the operation of the Center from its inception, and continue to collaborate on projects that benefit geography education.

*Rocky Mountain Teachers Leadership Network* (NSF 1986-87) Research Assistant; assisted with all aspects of this summer institute for secondary geography teachers.

2006 Reviewer, *The Professional Geographer*, Association of American Geographers.

## Professional Consultation

**St. Vrain Public Schools 2014.** This school district is restructuring their curriculum to address new social studies standards in Colorado. I am assisting with this undertaking by working with the new social studies coordinator and their social studies leadership team.

2009 Colorado Department of Education. Subcommittee member in geography to develop Social Studies standards, P-12.

*Geographer on Staff:* Writing Standards-based Performance Assessments in Middle School Social Studies, Boulder Valley School District, Spring, 2005 in Boulder



Colorado. Geography assessment design, directed by Marianne Kenney, funded by the Colorado Geography Education Fund.

*Geographer on Staff:* Boulder Valley School District Social Studies Assessment Workshop, June 21-29, 2004 in Boulder Colorado. Geography assessment design, directed by Marianne Kenney, funded by the Colorado Geography Education Fund.

*Travel Grant* British Broadcasting Corporation: Present a workshop at the annual meeting of the National Council for Geographic Education in Salt Lake City, UT. October 2003.

#### Professional Association Participation

**National Council for Geographic Education 1990-2015**  
**Associate Editor, Editorial Advisory Board, *Journal of Geography in Higher Education* 2009-2015**

Reviewer, International Journal of Digital Earth 2014-15  
Center for Engaged Research and Civic Action (CERCA),  
**Faculty Advisory Board 2009-2012**

**The Phi Beta Kappa Society 1993-2015**

National Council for the Social Studies 2008

Social Science Education Consortium 1999-2004

Association of American Geographers 1990-2000

**Arctic Institute of North America 1990-95**

International Geographical Union 1988-95

#### College Service

**2012-14 HSS Budget and Planning Committee.**

**2010 Organizer, College of Humanities and Social Science Student Symposium on the 2010 Gulf Oil Spill**

#### Community Service

**2010 Presenter, College of Humanities and Social Science Faculty Symposium on the 2010 Gulf Oil Spill**

2008-2009

Committee Member: Model Content Standards Review Subcommittee in Geography, Colorado Department of Education.

2005-2009

Co-coordinator, Colorado Geographic Alliance—design and

implement programs aimed to improve geography education in K-12 schools in Colorado.

#### University Service

2007-15 Director ProGeographer program (Graduate Certificate in Geography Education).

2007-15 Liberal Arts Council Area 4 Committee Member

2006-07 Faculty Search Committee, Geography UNC

2006 HSS College Awards Committee

2002-03, 2004-2005 General Education Council. Maintained and improved general education requirements for UNC students.

#### Teaching

*Senior Seminar—Geography 495* (Fall 2010). Capstone course for geography majors.

*Physical Geography—Geography 232/230* (Fall 2006, Spring 2007 and 2008, Fall 2008, Spring 2009, Spring 2011, Fall 2011, Spring 2013 and 2014). Systematic review of physical systems and their associated environmental parameters.

*Geography of the United States and Canada—Geography 110* (Fall and Spring 2001-07, Fall 2008, 2009-2014). A thorough review of subregional and continental physical and human dynamics in North America for 1<sup>st</sup> and 2<sup>nd</sup> year undergraduate students.

*Extreme Latitudes, Polar Geography 395. Fall 2013 and 2014. Advanced regional course covering physical and human systems in the polar environments, and connections between polar and non-polar regions.*

*Social Science and Historical Perspectives—SOSC 300.* (Spring 2003-2004 and 2008, Fall 2004-7, Spring 2010, Fall 2012) A review of methods and explanations in the social sciences and history.

*Design of Geography Instructional Materials: Geography 513* (Spring 2013). Graduate course, part of the Graduate Certificate Program. Participants explore the foundational design elements of exemplary materials in geography and develop a publishable unit.

*Field Geography for Teachers—Geography 592* (Summer 2007 and 2013-14)

*Field Problems—Geography 392* (Summer 2004-14) Research trips on the Gunnison and Colorado Rivers to calibrate air photos, identify salt cedar habitat, collect data for plant invasion study.

*Directed Studies—Geography 422* (Summer, Spring, and Fall 2004-07 and Fall 2012 and 2014) Worked with students to extend work done in Geography 392. Fall 2008: teaching physical geography (1 student).

*The Earth at Risk: Environmental Geography 355* (Spring 2002, Fall 2004, Spring 2006 and Spring 2008 and Spring 2010, Fall 2011 and 2013). A junior-level class focused on spatial aspects of environmental issues explored with advanced investigative techniques.

*Secondary Teacher Education Program—STEP161, 262, 363* (Fall 2003). Observation and analysis of secondary teaching practices, including observations in partner schools in the Colorado Front Range.

*Secondary Teacher Education Program—STEP464* (Spring 2009 and Spring 2005, Fall 2010, Spring 2011, Fall 2011 and Fall 2012). Supervised students working on geography certification at the secondary level.

*World Geography—Geography 100* (Spring 2000-Fall 2002 and Fall 2013 and 2014). A survey course for first year students reviewing all major world regions and issues studied in geography.

*Canadian Arctic Field Research—Geography 4983* (Summers, 1987-1993). This senior-level course conducted in the Northwest Territories, Canada, reviewed methods employed in cold-region research and had students design original studies.

*Environmental Systems: Climate and Vegetation—Geography 1001* (Spring 1989). Open to any undergraduate, this course reviewed the Earth's biomes and climates, and dynamics.

*World Geographic Problems—Geography 200* (Spring, 1988). This sophomore class presented a selection of problems for students to examine through activities and group exercises.

*Teaching Geography—Geography 411* (Spring, 1988). Seniors who completed *World Geographic Problems* returned to assist with instruction and gain an understanding of teaching theory and practice.

*World Geographic Problems—Geography 200* (Spring, 1987). Teaching Assistant.

*Geography Internship—Geography 492* (Fall 2006). Teaching Assistance with Physical Geography.

#### Courses Developed:

*Western Rivers—Geography 391*. This course was redeveloped in 2013 and officially entered into the catalog in 2014. It is a

special hybrid class that meets on line, on campus, and in the field in western Colorado.

*Physical Geography—Geography 230 (Fall 2010)* Systematic review of physical systems and their associated environmental parameters.

*Extreme Latitudes: Polar Geography 395 (Fall 2012)*  
Completed development of a new upper-division advanced regional course that investigates issues in cold regions (Arctic and Antarctic). Includes a review of cultures, geopolitics, environmental change, resource extraction, and boundaries.

*Field Geography for Teachers—Geography 592 (Summer 2007 and 2013-14)*

*Field Problems—Geography 392 (Summer 2004-13)* Research trips on the Gunnison River to calibrate air photos, identify salt cedar habitat, collect data for plant invasion study.

*Social Studies Methods of Inquiry—SOSC 300.* (Spring 2003-2004, Fall 2004-7, Spring 2008; Fall 2009, Spring 2010, Fall 2012) Worked with Matt Downey and others to redevelop this course entirely.

*Advanced Physical Geography 325 (Spring 2002, Fall 2004, Spring 2006, 2008, and 2010, Fall 2011 and 2013).* A junior-level class focused on spatial aspects of environmental issues explored with advanced investigative techniques.

*Canadian Arctic Field Research—Geography 4983 (Summers, 1987-1993).* This senior-level course conducted in the Northwest Territories, Canada, reviewed methods employed in cold-region research and had students design original studies.

#### Programs Developed:

2006-07: Graduate Certificate in Geography Education.  
Upgrading 5 graduate courses that will be offered to Colorado teachers (K-12) in a coordinated design aimed to improve geography knowledge and practice in classrooms.

#### Honors and Awards

*2014 First Year Scholars Outstanding Faculty and Staff.*  
*2010 First Year Scholars Outstanding Faculty, University of Northern Colorado.*

2006, Academic Excellence Award for Teaching Excellence in Undergraduate Education, University of Northern Colorado.

2006, Certificate of Achievement, Teaching Excellence, College of Humanities and Social Sciences, UNC.

2005, Teaching Excellence in Undergraduate Education, UNC.

2005, Mortar Board Award for Outstanding Professor

2005, Who's Who Among American Teachers

1984, Magna Cum Laude, Department of Geography, University of Colorado

1984, Award For Excellence of Scholarship, National Council For Geographic Education

1984, Jacob Van Ek Award, University of Colorado

1983, Phi Beta Kappa

1983, Isabelle S. Tour Scholarship, Department of Geography, University of Colorado

1983, Viola Vester Coulter Scholarship, Department of Geography, University of Colorado

1975-84, Dean's List of Honor Students University of Colorado

1981, Chancellor's Honor Roll University of Colorado