

Curriculum Vitae

**MICHAEL J. KEABLES, PHD**

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**Contact Information**

Department of Geography and the Environment  
University of Denver  
2050 E. Iliff Avenue  
Denver, CO 80208  
303-871-2653  
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**Administrative Positions**

Chair, Department of Geography and the Environment, 2016-present  
Senior Associate Dean, Ritchie School of Engineering and Computer Science, 2015-2016  
Interim Dean, Ritchie School of Engineering and Computer Science, 2011-2015.  
Associate Dean, Natural Sciences and Mathematics, 2008-2011.  
Acting Dean, Natural Sciences and Mathematics, Summer 2009.  
Acting Dean, Natural Sciences and Mathematics, Fall 2008-Spring 2009.  
Chair, Department of Geography, 2005-2008.  
Interim Dean, Natural Sciences and Mathematics, Summer 2007.  
Interim Executive Director, Service Learning and Civic Engagement, 2003-2005 (included the Pioneer Leadership Program, Living and Learning Communities, Center for Service Learning, Center for Community Programs).  
Director, Environmental Science Program, 1998-2005.  
Director, Earth, Environmental, and Ecological Sciences, 1999-2004.  
Associate Dean, Undergraduate Studies, 1995-1999.  
Acting Department Chair, Fall 1996, Fall 1997, Fall 1998.

**Faculty Appointments**

Associate Professor with Tenure  
Department of Geography and the Environment  
University of Denver  
Denver, CO 80208  
July 1992 - present

Assistant Professor  
Department of Geography  
University of Denver  
Denver, CO 80208  
September 1986 - June 1992

Lecturer  
Department of Geography  
University of Maryland-Baltimore County  
Catonsville, MD 21228  
August 1985 - August 1986

Lecturer  
Department of Geography  
University of Wisconsin-Madison  
Madison, WI 53706  
August 1982 - August 1985

### **Education**

Ph.D., Geography, University of Wisconsin-Madison, 1986  
M.S., Geography, University of Wisconsin-Madison, 1982  
B.A., Geography, University of Colorado-Boulder, 1978

### **Research Interests**

Synoptic, dynamic, and applied climatology, hydrology, environmental problems, climatic variability, climate change. Current research project involves the use of local water budget models to predict soil water conditions in response to global climate change as predictors of future water supplies and drought.

### **Grants**

Keables, Michael J., 2011. GIS Services in Support of DRCOG Land Use and Sustainability Program, Denver Regional Council of Governments, \$44,905.

Keables, Michael J. and Giannetti, Claudia M., 2010. GIS Services in Support of DRCOG Land Use and Sustainability Program, Denver Regional Council of Governments, \$17,809.

Keables, Michael J. and Giannetti, Claudia M., 2010. GIS Services in Support of DRCOG: Task Order 3, Denver Regional Council of Governments, \$8,140.

Keables, Michael J., and Giannetti, Claudia M., 2009. GIS and Environmental Technical Assistance, City and County of Denver, \$28,993.

Keables, Michael J., 2008. Online Delivery of the Masters in Science in Geographic Information Science Degree. Center for Teaching and Learning, University of Denver, \$18,611.

Keables, Michael J. and Longbrake, William I., 2007. South Adams Water and Sanitation District GIS/GPS Internship, \$20,040.

Keables, Michael J. and Longbrake, William I., 2007. National Parks Service, Geologic Resources Division Internship, \$15,070.

Keables, Michael J. and Longbrake, William I., 2007. National Parks Service, Environmental Quality Division Internship, \$42,584.

Keables, Michael J. and Longbrake, William I., 2007. Colorado State Conservation Board Internship, \$6383.

Keables, Michael J., Calhoun, Jo, Grieve, Catherine, and York, Sheldon, 2005. Marsico Internship Initiative: Year 2. Marsico Foundation, \$230,041.

Keables, Michael J, Calhoun, Jo, and York, Sheldon, 2005. Field Experience Program: Year 3. Marsico Foundation, \$95,305.

Keables, Michael J., Calhoun, Jo, Greive, Catherine, Haag, John, Hawkins, Mary Michael, Stott, Annette, and York, Sheldon, 2004. Marsico Internship Initiative: Pilot. Marsico Foundation, \$177,143.

Keables, Michael J., Calhoun, Jo, and York, Sheldon, 2004. Field Experience Program: Year 2. Marsico Foundation, \$122,650.

Keables, Michael J, Calhoun, Jo, and York, Sheldon, 2003. Field Experience Program: Pilot. Marsico Foundation, \$35,000.

Keables, Michael J. and Luchsinger, Deborah, 1999. "Application of real-time meteorological data in undergraduate meteorology courses." National Science Foundation, Instrumentation and Laboratory Improvement, \$6000.

Keables, Michael J., 1994. "Climatology Library Access to the Internet." University of Denver Faculty Research Grant, \$1000.

Keables, Michael J., 1992. "Application of real-time meteorological data in undergraduate meteorology courses." National Science Foundation, Instrumentation and Laboratory Improvement, \$11,392.

Keables, Michael J., 1990. "Spatial patterns of hydroclimatic variability in the Mississippi River Basin." Water Resources Research Act, U.S. Geological Survey, \$173,556.

Keables, Michael J. and Sullivan, Donald G., 1987. "Acquisition of thematic mapper imagery of Western Turkey." Marlar Foundation, \$2250.

## **Publications**

Keables, Michael J., 2020 (ed.). *The Rocky Mountain West: A Compendium of Geographic Perspectives*, American Association of Geographers, ISBN 978-0-89291-286-5.

Keables, Michael J. and Mehta, Shitij, 2010. A soil water climatology for Kansas. *Great Plains Research* **20**: 229-248. (Charles E. Bessey award for best natural sciences article published in *Great Plains Research* in 2010.)

Hartley, Suzanne, and Keables, Michael J., 1998. Synoptic associations of winter climate and snowfall variability in New England, USA, 1950-1992. *International Journal of Climatology* **18**:281-298.

Keables, Michael J., 1992. Spatial variability of midtropospheric circulation patterns and associated surface climate during ENSO winters. *Physical Geography* **13**:331-348.

Keables, Michael J., 1991. Hydroclimatic variability on the Great Plains. *Great Plains Research* **1**:77-92.

Keables, Michael J., 1989. A synoptic climatology of the bimodal warm season precipitation profile of the Upper Midwest. *Journal of Climate* **2**:1289-1297.

Keables, Michael J., 1988. Spatial associations of midtropospheric circulation and Upper Mississippi River Basin hydrology. *Annals Assoc. Amer. Geog.* **78**:74-92.

### **Technical Reports**

Keables, Michael J., 1993. Spatial patterns of hydroclimatic variability in the Mississippi River Basin. Final Report, U.S. Geological Survey, 119pp.

### **Papers**

Keables, Michael J., 2011. "Exemplary Course: NATS 1201 Environmental Systems-Atmosphere." Blackboard World Conference, July 2011, Las Vegas, Nevada (invited).

Keables, Michael J., 2010. "From lecture hall to virtual classroom: Lessons learned in converting a traditional on-campus course to a distance learning environment." Blackboard World Conference, July 2010, Orlando, Florida (invited).

Keables, Michael J., 2010. "Hydroclimatic variability on the Great Plains." American Association of Geographers, April 2010, Washington, D.C.

Keables, Michael J., 2010. "NATS 1201: Environmental Systems Online." Distance Learning Showcase. University of Denver Symposium on Distance Learning, January 2010, Denver, Colorado (invited).

Keables, Michael J., 2008. "Relationships between soil water climatology of the Central Great Plains and the Atlantic Multidecadal Oscillation." American Association of Geographers, April 2008, Boston, Massachusetts.

Keables, Michael J. and Mehta, Shitij, 2007. "Climatic variability of soil water balance parameters." American Association of Geographers, April 2007, San Francisco, California

Keables, Michael J., 2006. "Experiential learning in the Geography Curriculum." American Association of Geographers, March 2006, Chicago, Illinois

Keables, Michael J., "A soil water budget climatology for Kansas using GIS." American Association of Geographers, March 2005, Philadelphia, Pennsylvania.

Noonan, Jessica, Keables, Michael J., and Sutton, Paul C., 2004. "An urban landuse study of population growth and urban sprawl in the Denver-metro area using Landsat TM imagery." American Society for Photogrammetry and Remote Sensing, May 2004, Denver, Colorado.

Stewart, Joanne E., Sullivan, Donald G., Keables, Michael J., and Berry, Joseph K., "Factors influencing the spatial patterns of bats along riparian corridors in a prairie landscape." American Association of Geographers, March 2004, Philadelphia, Pennsylvania.

Keables, Michael J., "Synoptic climatological research at the University of Denver." Department of Civil Engineering, University of Colima, December 2001, Colima, Mexico (Invited).

Keables, Michael J., "Synoptic climatological research at the University of Denver." Department of Geography, University of Guadalajara, December 2001, Guadalajara, Mexico (Invited).

Keables, Michael J. and Wedgeworth, Connie S., "Spatial associations of midtropospheric circulation patterns and anomalous hydrologic conditions for the contiguous United States." American Association of Geographers, February 2001, New York City, New York.

Keables, Michael J., "ENSO circulation and its effects on the weather of the United States." Physics Department Colloquium, University of Denver, December 1992 (Invited).

Keables, Michael J., "Winter climate anomalies in the United States associated with ENSO circulation." American Association of Geographers, April 1992, San Diego, California.

Sullivan, Donald G., Keables, Michael J., and Cec, Patricia A., "Precipitation variability on the Palmer Divide, Front Range, Colorado." Rocky Mountain Hydrological Research Center, August 1991, Allenspark, Colorado.

Van Hyning, Conrad N. and Keables, Michael J., "Synoptic climatology of winter ENSO-related precipitation in California." American Association of Geographers, April 1991, Miami, Florida.

Keables, Michael J., "Spatial patterns of hydroclimatology on the Great Plains." Water Resources Engineering Symposium, Colorado State University, September 1990, Ft. Collins, Colorado (Invited).

Keables, Michael J., "Spatial and temporal patterns of Great Plains hydroclimatology." American Association of Geographers, April 1990, Toronto, Ontario, Canada.

Keables, Michael J., "Hydroclimatic variability on the Great Plains." 14th Annual Symposium of the Center for Great Plains Studies, April 1990, Lincoln, Nebraska (Invited).

Keables, Michael J., "Circulation-streamflow associations on the Great Plains." Front Range American Geophysical Union meeting, February 1990, Boulder, Colorado.

Keables, Michael J., "Synoptic climatology of the bimodal precipitation distribution in the Upper Midwest." American Association of Geographers, April 1989, Baltimore, Maryland.

Keables, Michael J., "Spatial associations of midtropospheric circulation and Upper Mississippi River Basin hydrology." American Association of Geographers, April 1987, Portland, Oregon.

Keables, Michael J., "Spatial associations of midtropospheric circulation and winter precipitation in the Upper Mississippi River Basin." American Association of Geographers, May 1986, Minneapolis, Minnesota.

Keables, Michael J., "A synoptic climatology of the bimodal warm season precipitation distribution in the Upper Midwest: Preliminary results." American Association of Geographers, April 1984, Washington, D.C.

Keables, Michael J., "Dominant 700 millibar anomaly patterns over North America, 1949-1974." American Association of Geographers, April 1982, San Antonio, Texas.

## **Honors**

Pioneer Award Nominee, 2018  
Leadership Award, Ritchie School of Engineering and Computer Science, 2012  
Blackboard Catalyst Award for Exemplary Courses, 2011. National recognition for exemplary design of online course: NATS 1201: Environmental Systems – Weather.  
Outstanding Faculty Award, Department of Geography, University of Denver, 2006.  
Who's Who Among America's Teachers, 2004-present  
Who's Who in Science Higher Education, 2003-present  
Outstanding Faculty Award, Department of Geography, University of Denver, 2002.  
Outstanding Support Award, Office of Admission, University of Denver, 2001.  
Exceptional Service Award, Department of Geography, University of Denver, 1999.  
Who's Who International, 1999-present  
Outstanding Faculty Award, AUSA Student Senate, University of Denver, 1998.  
Who's Who, 1997-present  
"Top Professor" Award, Mortar Board, University of Denver, 1997.  
Faculty Award for Excellence, Division of Natural Sciences, Mathematics, and Engineering, 1995.  
Who's Who in the American West, 1995-present  
Outstanding Faculty Award, Department of Geography, University of Denver, 1991.  
Distinguished Teaching Achievement Award, National Council for Geographic Education, 1990.  
Exceptional Service Award, Natural Sciences Division, University of Denver, 1988.  
Outstanding Faculty Award, Department of Geography, University of Denver, 1988.

## **Teaching**

### **Courses Taught:**

FSEM 1111: Controversial Environmental Issues (First Year Seminar)  
GEOG 0010: The Atmosphere  
GEOG 0030: Natural Regions of the United States  
GEOG 1201: Environmental Systems: Weather & Climate  
GEOG 2020: Computer Cartography  
GEOG 2200: World Regional Climatology  
GEOG 2240: Photointerpretation  
GEOG 2990: Professional Development for Environmental Science and Geography Majors  
GEOG 3600: Meteorology  
GEOG 3610: Climatology  
GEOG 3620: Applied Climatology  
GEOG 3240: Remote Sensing  
GEOG 3740: Darkroom Cartography  
GEOG 3900: Climatology Seminar  
GEOG 3940: Advanced Remote Sensing  
GEOG 3850: Physical Geography: Canyonlands  
GEOG 3980: Geographic Internship  
GEOG 4850: Topics in Physical Geography  
GEOG 4950: Advanced Field Research  
GEOG 4960: Thesis Identification  
GEOG 4991: Independent Study  
GEOG 4993: Technical Project  
GEOG 4995: Independent Research  
NATS 1201: Environmental Systems: The Atmosphere

NATS 1202: Environmental Systems: Hydrology  
NATS 1203: Environmental Systems: Landforms  
NATS 1216: Our Dynamic Earth: Atmospheric Hazards  
FRESH 1000: Freshman Experience  
UDCC 1000: DU Campus Connection (first year student seminar)  
UDCC 1050: Controversial Environmental Issues (First Year Seminar)  
CIS 3502: Remote Sensing and GIS

**Graduate Students:**

Doctoral Students:

Narey, Martha A. (1999). "Drought Variability in the Western Great Plains: Synoptic Associations of Environmental Drought."

Luchsinger, Deborah A (1998). "Snowfall variability in the Rocky Mountains."

Hartley, Suzanne (1996). "Exceptional Snowfall Seasons in New England."

Masters Students:

Boyd, Rebecca (M.S. 2015). "A comparison of historical and predicted future runoff in the Upper Mississippi River Basin."

Enzi, Pascha (M.S. 2010). "Impact of pine beetle infestation on snow hydrology in the Colorado Front Range."

Walsh, Benjamin (M.A. 2007). "Modeling forest fire behavior using Landsat ETM+ imagery in the Colorado Front Range."

Dohnalova, Magdalena (M.S. 2004). "Measurement of evapotranspiration from satellite imagery."

Wedgeworth, Connie S. (M.A. 2001). "Midtropospheric circulation patterns and the spatial variability of water balance parameters in the contiguous United States."

Stillwell, Lana (M.A.1996). "A comparison of simulated and observed climate with model predicted vegetation patterns for 6000 years BP."

Dover, Melissa (M.A. 1995). "Development of a Geographic Information System for the Mt. Evans Research Area."

Groves, Sally (M.A. 1994). "Agricultural-to-Urban water transfers and economic and population changes since 1971 in the Lower Arkansas River Valley, Colorado."

Rodrigo, Mark (M.A. 1994). "Land cover classification of remotely sensed imagery and conversion to a vector based GIS for the Denver metropolitan area."

Torikai, Lori A. (M.A. 1994). "Climatic factors influencing forest fire frequency in Pike National Forest, Colorado."

Morris, B. Quinn. (M.A. 1993). "Evidence of climate change on the Palmer Divide, Colorado from tree-ring chronologies."

Rodeck, Paul P. (M.A. 1992). "Development of a Geographic Information System for Woodland Park, Colorado."

Wright, Patrick J. (M.A. 1991). "Colorado Atlas Project."

Van Hyning, Conrad N. (M.A. 1990). "A synoptic analysis of winter precipitation in California during ENSO events from 1950 to 1984."

## **Service**

### **University:**

Chair Advisory Board, Office of the Provost, 2019-present  
Faculty Review Committee, 2019-present (chair 2021-)  
Search Committee, Vice Provost for Internationalization, 2019  
Courseware Faculty Advisory Board, Office of Teaching and Learning, 2018-present  
Faculty Senate, Senator At Large, 2018-present  
Personnel Committee, Faculty Senate, 2018-present  
DU Impact 2025, Sustainability Cluster, 2016-present (co-chair)  
DU 2025 Strategic Plan Implementation Group: Sustainability, 2016 (chair)  
Search Committee, Vice Chancellor and Chief Information Officer, 2016 (chair)  
DU 2025 Strategic Initiatives; Transformative Directions: Sustainability, 2015  
Search Committee, Senior Associate Dean, Ritchie School of Engineering and Computer Science, 2016 (chair)  
Search Committee, Dean, Ritchie School of Engineering and Computer Science, 2013-2015 (chair).  
Search Committee, Associate Provost for Internationalization, 2013 (chair)  
Renew DU Steering Committee, 2011-2015  
Center on Aging Strategic Planning Committee, 2010-2011 (chair)  
Search Committee, Vice Chancellor for Information Technology, 2010-2011 (chair)  
Search Committee, Director, Academic Advising and Orientation, 2010  
Distance Learning Council, 2009-present  
Academic Assessment Advisory Committee, 2010-2012  
Academic Quality, University NCAA Self-Study Committee, 2009-2012  
University Calendar Committee, 2008-2016  
University Accreditation Committee, 2008-2010 (co-chair, Scholarship and Research)  
University Sustainability Council, 2008-2010 (chair, Curriculum and Research)  
Graduate and Professional Student Learning Outcomes Committee, 2008-2009  
Search Committee, Dean, Morgridge College of Education, 2008-2009  
General Education Review Committee, 2007-2013  
Sustainability Strategy Committee (co-chair), 2007-2008  
Honors Program Review Committee, 2006-2007  
Courseware Faculty Advisory Board, Center for Teaching and Learning, 2004-2012  
Marsico Steering Committee, 2002-2007 (chair 2006-2007)  
Service Learning Faculty Committee (co-chair), 2003-2005  
Residential Living Task Force, 2003-2004  
Search Committee, Associate Vice Provost for Campus Life, 2002  
Core Construction Committee, 1999-2001

Core Curriculum Committee, 1994-1996  
Graduate Student Exams (Outside Chair) for the Departments of History, Mass Communications, and Media, Film and Journalism Studies, Electrical Engineering, 1992-present  
Director of University Ceremonies, 1991-1999  
Commencement Marshal, 1987-present  
Commencement Co-Chief Marshal, 2011-present  
Exceptions to Academic Policy Committee (chair), 1988-1999; 2008-2011  
Academic Standards Committee, 1992-1999; 2008-2011  
Mentoring Committee, 1995-1996, 1997-1998  
Honors Committee, 1995-1996  
Search Committee, Dean of Natural Sciences, Mathematics and Engineering, 1995  
Endowed Lecture Series Committee, 1995  
University Task Force on Diversity and University Culture, 1992  
Ad-Hoc Committee, Atmospheric Science Center, 1986-1990

**College:**

Graduate Student Exams (Outside Chair) for the Departments of Biological Sciences, Chemistry and Biochemistry, Physics and Astronomy, 1992-present.  
Natural Sciences Foundations Curriculum Committee, 2002-2010  
Environmental Science Faculty Board, Chair, 1999-2003  
Promotion and Tenure Committee, 1997-2003  
Technology Committee, 1996-1999  
Environmental Science Committee, Chair, 1996-1999  
Core Curriculum Review Committee, 1994-present  
High School Mini-Course: Remote Sensing and GIS, 1994-1996  
Course Coordinator, Environmental Systems, 1992-present

**Department:**

Faculty Senate, 2005-2007  
Tenure and Promotion Committee, 1992 (chair), 1993-1995, 1997, 2002 (chair), 2007, 2009, 2011, 2013  
Planning Committee, 1987-2010  
Hiring Committee, 1987, 1990, 1995 (chair), 1996-1997, 2001-2002 (chair), 2003, 2005-2007, 2014, 2016, 2017  
Graduate Studies Director, 1987-1995

Graduate Student Examination Committees:

Ph.D.

Pons Ganddini, Diego, 2016  
Beck, Francine, 2006  
Davidson, Marilyn, 1992  
Wasserman, Adrian, 1988

M.A.

Hancock, Chris, 2020  
Trivino, Natalie, 2018  
Thunen, Diana, 2013  
Marzetta, Katrina, 2011

Stewart, Joanne, 2007  
Ernenwein, Eileen, 2002  
Hunt, Emily, 2002  
Blossom, Jeffrey, 2001  
Drummond, Mark, 1999  
Holtkamp, Christopher, 1999  
Hyer, Lewis, 1996  
Capesius, Joseph, 1996  
Giannetti, Claudia, 1992  
Watson, Linda, 1992  
Isenhardt, James, 1991

M.S.

Noonan, Jessica, 2003

### **Professional**

Local Arrangements Committee, American Association of Geographers, 2019-2020.  
Regional Chair, Great Plains/Rocky Mountain Division, American Association of Geographers, 2006-2007.  
Webmaster, Climate Specialty Group, American Association of Geographers, 2007-present.  
Vice Chair, Great Plains/Rocky Mountain Division, American Association of Geographers, 2005-2006.  
Treasurer, DU chapter, Sigma Xi, 1991-1998.  
Honors Committee, Climate Specialty Group, AAG, 1988-1990.  
Manuscript reviews for *Bulletin* American Meteorological Society, *Physical Geography*, *Professional Geographer*, *Climate Dynamics*, *Journal of Climate*.  
Proposal reviews for the National Science Foundation, Sea Grant Program.  
Textbook reviews: Merrill Publishing, W.C. Brown Publishing, West Publishing, John Wiley and Sons Publishing.

### **Community**

Open Space Advisory Board, City of Centennial, 2007-2008.  
Consultant, Denver Museum of Nature and Science, 1989-present.  
Consultant, Denver Art Museum, 1989-present.  
Math and Science Teachers Hotline, 1988-present.  
Kids as Global Scientists, 1995-present.  
Elementary School Outreach: Asbury Elementary School, 1992-2003.  
Panel of Experts, Colorado State Auditor's Office, Automobile Inspection and Repair (AIR) Program (auto emissions), 1990-1992.  
High School Outreach: Ponderosa High School, 1991-1992.

### **Memberships**

American Association for the Advancement of Science  
American Association of Geographers  
American Geographical Society  
American Geophysical Union  
American Meteorological Society  
American Society for Engineering Education  
Colorado Geographic Alliance

National Council for Geographic Education  
National Geographic Society  
Sigma Xi Scientific Research Society  
Smithsonian Institution