

CURRICULUM VITAE

DAVID PATRICK BROWN

Department of Geography and Anthropology
Louisiana State University
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EDUCATION

Degrees:

2004: Ph.D. Geography, University of Arizona, Tucson, AZ

- Dissertation Title: *Spatial patterns of multi-decadal climate variability in the western United States*
- Minor: Global Change

2001: M.A. Geography, University of Arizona, Tucson, AZ

- Thesis Title: *Modeling and analysis of sub-regional winter climate variability in Arizona and New Mexico*

1999: B.S. Meteorology, Penn State University, University Park, PA

- Minors: Geography, Earth Systems Science

Major Fields:

Synoptic Climatology; Climate Variability and Change; Human-Environment Interactions

EMPLOYMENT

2007 – present: Assistant Professor, Department of Geography and Anthropology, Louisiana State University

- Affiliated Appointment: Disaster Sciences and Management Program

2004 – 2007: Assistant Professor, Department of Geography, University of New Hampshire

- New Hampshire State Climatologist
- Affiliated Appointments: Earth Sciences; Environmental Sciences; Natural Resources and Earth System Science Ph.D. Program

2003 – 2004: Graduate Fellow, TRIF Water Sustainability Program, University of Arizona

1999 – 2003: Research Assistant, Climate Assessment for the Southwest (CLIMAS) Project, Institute for the Study of Planet Earth, University of Arizona

1997 – 1999: Research Assistant, Center for Integrated Regional Assessment (CIRA), College of Earth and Mineral Sciences, Penn State University

PUBLICATIONS

Refereed Publications:

- Brown DP, Wake CP, in revision. Synoptic characteristics of summer season daily ozone maxima in the northeast United States. *Physical Geography*.
- Diem JE, Brown DP, 2009. Relationships among monsoon-season circulation patterns, gulf surges, and rainfall within the Lower Colorado River Basin, USA. *Theoretical and Applied Climatology*, 97, 373-383.
- Burakowski EA, Wake CP, Braswell R, Brown DP, 2009. Correction to "Trends in wintertime climate in the northeastern United States: 1965-2005." *Journal of Geophysical Research – Atmospheres*, 114, D02117, doi:10.1029/2008JD011668.
- Burakowski EA, Wake CP, Braswell R, Brown DP, 2008. Trends in wintertime climate in the northeastern United States: 1965-2005. *Journal of Geophysical Research – Atmospheres*, 113, D20114, doi:10.1029/2008JD009870.
- Diem JE, Brown DP, 2006. Tropospheric moisture and heavy monsoonal rainfall over the southwestern United States. *Journal of Geophysical Research – Atmospheres*, 111, doi:10.1029/2005JD006836.
- Brown DP, Comrie AC, 2004. A winter precipitation 'dipole' in the western United States associated with multi-decadal ENSO variability. *Geophysical Research Letters*, 31, doi:10.1029/2003GL018726.
- Diem JE, Brown DP, 2003. Anthropogenic impacts on summer precipitation in Central Arizona, USA. *The Professional Geographer*, 55, 343-355.
- Brown DP, Comrie AC, 2002. Sub-regional seasonal precipitation linkages to SOI and PDO in the southwest United States. *Atmospheric Science Letters*, 3, 94-102.
- Brown DP, Comrie AC, 2002. Spatial modeling of winter temperature and precipitation in Arizona and New Mexico, USA. *Climate Research*, 22, 115-128.
- Yarnal B, Comrie AC, Frakes B, Brown DP, 2001. Developments and prospects in synoptic climatology. *International Journal of Climatology*, 21, 1923-1950.

Proceedings and Other Publications:

- Ochoa R, Wordell T, Brown T, Brown D, 2009. 2009 National seasonal assessment workshop for the eastern and southern geographic areas. National Interagency Coordination Center, Boise, ID.
- Ochoa R, Wordell T, Brown T, Brown D, 2009. North American seasonal assessment workshop (NASAW) eastern U.S., southwest, and Mexico outlook: 2009. National Interagency Coordination Center, Boise, ID.
- Brown DP, 2007. New Hampshire state climate office annual report. *State Climatologist*, 25, 78-80.
- Brown DP, 2006. New Hampshire state climate office annual report. *State Climatologist*, 24, 78-80.
- Brown DP, Morin C, 2005. A comparison of daily CRN and COOP temperature and precipitation measurements for Durham, NH, 2002-2004. State Climatologist Exchange Program Report, NOAA National Climatic Data Center, Asheville, NC.

Brown DP, 2005. New Hampshire state climate office annual report. *State Climatologist*, 23, 48-49.

Brown DP, 2004. Spatial patterns of multi-decadal climate variability in the western United States. Ph.D. Dissertation, Department of Geography and Regional Development, University of Arizona, Tucson, AZ.

Waldorf B, Brown DP, Byun P, Cahill M, Donelson A, Farris C, Seacat M, 2002. Age structure and fertility: a meta-analytical assessment of the literature. Department of Geography and Regional Development Discussion Paper 01-02, University of Arizona.

Brown DP, 2001. Modeling and analysis of sub-regional winter climate variability in Arizona and New Mexico. M.A. Thesis, Department of Geography and Regional Development, University of Arizona, Tucson, AZ.

Brown DP, Comrie AC, 2000. Spatial modeling and scale analysis of winter climate variability in Arizona and New Mexico. Proceedings, 2nd Southwest Weather Symposium, Tucson, AZ.

GRANTS AND CONTRACTS

External Grants and Funding:

- Mississippi-Alabama Sea Grant Consortium, Coastal Community Resiliency and Resource Management Program. Hurricanes, institutional procedures, and information processing (HIPIP): engagement with decision-makers and coastal residents. Co-principal investigator (with Edwards R, *et al.*), \$137,774, May 2009-April 2010.
- National Oceanic and Atmospheric Administration, Climate Program Office. Climate risk mitigation program. Co-principal investigator (with Shafer M, *et al.*), \$3,849,883, August 2008-July 2013.
- National Science Foundation, GEO-Teach Program. Transforming Earth system science education (TESSE). Principal investigator, \$6,508, October 2007-September 2008.
- National Science Foundation, GEO-Teach Program. UNH GEO-Teach: transforming earth system science education. Co-principal investigator (with Graham K, *et al.*), \$960,275, October 2006-September 2007.
- National Oceanic and Atmospheric Administration, State Climatologist Exchange Program. A map product for the New Hampshire State Climate Office. Principal investigator, \$2,320, July 2006-August 2006.
- National Oceanic and Atmospheric Administration, Office of Oceanic and Atmospheric Research. Atmospheric investigations, regional modeling, and prediction (AIRMAP). Co-investigator (with Talbot R, *et al.*), \$4,440,000, September 2004-August 2006.
- National Oceanic and Atmospheric Administration, State Climatologist Exchange Program. Inter-station comparison of temperature and precipitation variability in Durham, NH, 2002-2005. Principal investigator, \$3,285, June 2005-August 2005.
- National Oceanic and Atmospheric Administration, Office of Global Programs. New England integrated sciences and assessments (NEISA). Co-principal investigator (with Wake C, *et al.*), \$301,556, September 2002-August 2006.

Internal Grants and Funding:

- Louisiana State University, Office of Research and Economic Development, Summer Stipend Program, 2009. (\$5,000)
- Louisiana State University, Office of Research and Economic Development, Faculty Travel Grant Award, 2008. (\$750)
- Louisiana State University, Academic Affairs Faculty Fellows Program, Teaching Enhancement Fund Award, 2008. (\$500)
- Louisiana State University, Board of Regents Travel Grants for Emerging Faculty Program, 2008. (\$1,200)
- Louisiana State University, Office of Research and Economic Development, Junior Faculty Travel Award, 2008. (\$500)
- Louisiana State University, Center for Excellence in Learning and Teaching, Teaching Enhancement Fund Award, 2007. (\$400)

Louisiana State University, Department of Geography and Anthropology, Discretionary Fund Award, 2007. (\$300)

University of New Hampshire, Provost and Executive Vice President for Academic Affairs, Faculty Development Grant, 2005. (\$800)

University of New Hampshire, College of Liberal Arts, Summer Research Stipend, 2005. (\$4,000)

University of New Hampshire, Vice President for Research and Public Service, Research Development Grant, 2004. (\$250)

University of New Hampshire, College of Liberal Arts, Alumni Annual Gifts Fund, Research Development Grant, 2004. (\$1,000)

University of Arizona, Technology and Research Initiative Fund (TRIF), Water Sustainability Program, Graduate Fellowship, 2003-2004. (\$20,000)

University of Arizona, Office of Arid Lands Studies, William G. McGinnies Award, 2003. (\$1,000)

University of Arizona, Department of Geography and Regional Development, Professional Development Grant, 2003. (\$380)

University of Arizona, Department of Geography and Regional Development, Graduate Fellowship, 2001. (\$3,000)

University of Arizona, Department of Geography and Regional Development, Tuition Scholarships, 2000-20001. (\$2,500)

University of Arizona, Institute for the Study of Planet Earth, Graduate Fellowship, 1999. (\$2,000)

University of Arizona, Graduate College, Graduate Fellowship, 1999. (\$2,000)

SCHOLARLY AND INVITED PRESENTATIONS

- Nordfelt A, Brown DP, A comparative study of urban influences on precipitation throughout the south-central United States, 105th Annual Meeting of the Association of American Geographers, March 22-27, 2009, Las Vegas, NV.
- Diem JE, Brown DP, Relationships among monsoon-season circulation patterns, gulf surges, and rainfall within the Lower Colorado River Basin, USA, 105th Annual Meeting of the Association of American Geographers, March 22-27, 2009, Las Vegas, NV.
- Brown DP, Towards an improved understanding of monsoon variability in central and southern Arizona. Texas A&M Department of Geography Seminar Series, February 27, 2009, College Station, TX.
- Brown DP, Keim BD, Record rainfall associated with the 12-16 May 2006 New England storm, 104th Annual Meeting of the Association of American Geographers, April 15-19, 2008, Boston, MA.
- Graham K, Bryce J, Brown D, Darwish A, Finkel L, Froburg E, Furman T, Guertin L, Hale S, Johnson J, Porter W, Smith M, Varner R, Von Damm K, The transforming Earth system science education (TESSE) program, American Geophysical Union Fall Meeting, December 10-14, 2007, San Francisco, CA.
- Finkel L, Varner R, Froburg K, Smith M, Graham K, Hale S, Guertin L, Brown D, Bryce J, Darwish A, Furman T, Johnson J, Porter W, Von Damm K, Supporting inquiry-based Earth system science instruction with middle and high school Earth science teachers, American Geophysical Union Fall Meeting, December 10-14, 2007, San Francisco, CA.
- Varner R, Furman T, Porter W, Darwish A, Graham K, Bryce J, Brown D, Finkel L, Froburg E, Guertin L, Hale S, Johnson J, Von Damm K, Providing authentic research experiences for pre-service teachers through UNH's transforming Earth system science education (TESSE) program, American Geophysical Union Fall Meeting, December 10-14, 2007, San Francisco, CA.
- Brown DP, Diem JE, Tropospheric moisture and monsoonal rainfall over the southwestern United States, 4th Symposium on Southwest Hydrometeorology, September 20-21, 2007, Tucson, AZ.
- Bryce J, Graham K, Varner R, Johnson J, Brown D, Von Damm K, Finkel L, Darwish A, Porter W, Furman T, Transforming earth systems science education through teacher and higher education institution partnerships, 42nd Annual Meeting of the Northeastern Section of the Geological Society of America, March 12-14, 2007, Durham, NH.
- Brown DP, Keim BD, Record rainfall with the 12-16 May 2006 New England storm, American Geophysical Union Fall Meeting, December 11-15, 2006, San Francisco, CA.
- Brown DP, Regional variability of ozone in the northeast United States and associated circulation anomalies and climate teleconnections, 4th Climate Prediction Applications Science Workshop, March 21-24, 2006, Tucson, AZ.
- Brown DP, Winter circulation anomalies in the western United States associated with antecedent season and interdecadal ENSO variability, 1948-1998, American Geophysical Union Fall Meeting, December 5-9, 2005, San Francisco, CA.
- Brown DP, New Hampshire Climatology, Teachers Workshop on Indicators of Climate Change in the northeast United States, October 14, 2005, Durham, NH.
- Brown DP, Why was Katrina so intense, and will there be more hurricanes like it? University of New Hampshire Hurricane Katrina Forum, September 20, 2005, Durham, NH.

- Brown DP, Supply-side assessment of the New England Integrated Sciences and Assessments (NEISA) project, NSF SPARC-RISA Workshop, August 15-17, 2005, Honolulu, HI.
- Brown DP, Evidence of climate change in the northeastern United States, Climate Change and Northeast Agriculture Symposium, Northeastern Branch of the American Society of Agronomy Annual Meeting, July 10-13, 2005, Storrs, CT.
- Brown DP, Interannual variability of surface ozone and associated circulation patterns in the Northeast United States, 15th Conference on Applied Climatology, American Meteorological Society, June 20-24, 2005, Savannah, GA.
- Brown DP, Mallory A, Lambert T, Wake C, Climatic forcing of summer season ozone variability in the northeast United States, 101st Annual Meeting of the Association of American Geographers, April 5-9, 2005, Denver, CO.
- Brown DP, Wake C, Wilson A, Climate variability in New Hampshire and New England: implications for water resources, New England Water Works Association Monthly Meeting, January 20, 2005, Meredith, NH.
- Brown DP, Multi-decadal variability of spring season minimum temperature patterns in the western United States, 85th Annual Meeting of the American Meteorological Society, January 9-13, 2005, San Diego, CA.
- Comrie AC, Brown DP, Multi-decadal modulation of ENSO links to winter precipitation in the western United States, 21st Annual Pacific Climate Workshop on Climate Variability of the Eastern North Pacific and Western North America, March 28-31, 2004, Monterey, CA.
- Brown DP, Kipfmueller KF, Multi-decadal spatial variability of growing season intensity across the western United States, 100th Annual Meeting of the Association of American Geographers, March 14-19, 2004, Philadelphia, PA.
- Brown DP, Crimmins MA, Garfin GM, Adding value to national climate products at the local level: a pilot partnership program in Tucson, Arizona, 4th Climate Prediction Applications Science Workshop, March 9-11, 2004, Tallahassee, FL.
- Brown DP, Climate diagnostics, applications, and services in the western United States: examples from the CLIMAS project, Department of Geography, University of Nevada, February 19, 2004, Reno, NV.
- Brown DP, Kipfmueller KF, Multi-decadal spatial trends in growing season intensity across the western United States, 28th Annual NOAA Climate Diagnostics and Prediction Workshop, October 20-24, 2003, Reno, NV.
- Brown DP, Comrie AC, PDO selectively removes winter season ENSO-precipitation signal in the western United States, 20th Annual Pacific Climate Workshop on Climate Variability of the Eastern North Pacific and Western North America, April 6-9, 2003, Monterey, CA.
- Brown DP, Comrie AC, ENSO and PDO forcings on regional-scale winter precipitation variability in the southwest United States, 99th Annual Meeting of the Association of American Geographers, March 5-8, 2003, New Orleans, LA.
- Waldorf B, Brown DP, Byun P, Cahill M, Donelson A, Farris C, Seacat M, Demographic structure and demographic process: evaluating the effect of age structure on fertility, 42nd Congress of the European Regional Science Association, August 27-31, 2002, Dortmund, Germany.

Comrie AC, Brown DP, Development and analysis of fine-scale gridded climate data for Arizona and New Mexico, 13th American Meteorological Society Conference on Applied Climatology, May 13-16, 2002, Portland, OR.

Brown DP, Diem JE, An urban-induced summertime moisture signal in central Arizona, 98th Annual Meeting of the Association of American Geographers, March 20-23, 2002, Los Angeles, CA.

Comrie AC, Brown DP, Sub-regional variability of winter climate in Arizona and New Mexico, 26th Annual NOAA Climate Diagnostics and Prediction Workshop, October 22-26, 2001, La Jolla, CA.

Brown DP, Comrie AC, Spatio-temporal variability of winter climate in Arizona and New Mexico, 97th Annual Meeting of the Association of American Geographers, February 28-March 3, 2001, New York, NY.

Brown DP, Comrie AC, Spatial modeling and scale analysis of winter climate variability in Arizona and New Mexico, 2nd Southwest Weather Symposium, September 21-22, 2000, Tucson, AZ.

Brown DP, Comrie AC, Winter climate variability in Arizona and New Mexico, American Water Resources Association Annual Spring Specialty Conference, May 1-3, 2000, Anchorage, AK.

Brown DP, Comrie AC, Spatial modeling of winter climate variability in Arizona and New Mexico, 96th Annual Meeting of Association of American Geographers, April 4-8, 2000, Pittsburgh, PA.

AWARDS

2009: Robert Udick Undergraduate Teaching Award (nominated)

2006: State Climatologist Exchange Program Travel Award, NOAA National Climatic Data Center

2005: State Climatologist Exchange Program Travel Award, NOAA National Climatic Data Center

2003: 1st Place, Association of American Geographers Climate Specialty Group Student Paper Competition

2003: 1st Place, First Annual ISPE Student Poster Competition, University of Arizona

2003: Office of Arid Lands Studies William G. McGinnies Award, University of Arizona

2003: Invited Scientist, National Weather Service Climate Services Division Partnership Program

2003: Invited Scientist, Second International NCCR Summer School, Grindelwald, Switzerland

2003: American Meteorological Society Student Travel Award

2002: 1st Place, Air and Waste Management Association (Grand Canyon Section) Scholarship Competition

2002: American Meteorological Society Global Change Scholarship

2002: Association of Pacific Coast Geographers Student Travel Award

2001: 2nd Place, Association of American Geographers Climate Specialty Group Student Paper Competition

2001: Interagency Joint Fire Science Program Student Travel Award

2000 – 2001: Honorable Mention, National Science Foundation Graduate Research Fellowship Competition

1999 – 2004: Student Travel Grants (multiple), University of Arizona

1998: Department of Meteorology Hans Panofsky Award, Penn State University

1995: Schreyer Honors College Academic Excellence Scholarship, Penn State University

1995: College of Earth and Mineral Sciences Academic Scholarship, Penn State University

TEACHING EXPERIENCE

Louisiana State University:

- GEOG 2050: Physical Geography – The Atmosphere (undergraduate, 375 students)
- GEOG 4013: Meteorology (undergraduate/graduate, 30 students)
- GEOG 4221: The Tropical Atmosphere (undergraduate/graduate, 20 students)
- GEOG 4997: Climate Variability and Change (undergraduate/graduate, 15 students)
- GEOG 7917: Synoptic Climatology (graduate seminar, 6 students)

University of New Hampshire:

- GEOG 473: Elements of Weather (undergraduate, 130 students)
- GEOG 570: Climatology (undergraduate, 25 students)
- GEOG 572: Physical Geography (undergraduate, 30 students)
- GEOG 673: Environmental Geography (undergraduate, 25 students)
- GEOG 797: Senior Seminar (undergraduate, 10 students)
- ESCI 764/864: Paleoclimate Analysis (co-instructor, undergraduate/graduate, 5 students)

University of Arizona:

- GEOG 230: Our Changing Climate (undergraduate, 30 students)
- NATS 101: Introduction to Physical Geography (undergraduate, 30 students)

SERVICE

Graduate Students – Advised:

- Jessie McCann, M.S. Geography, Louisiana State University (current)
- Anna Nordfelt, Ph.D. Geography, Louisiana State University (current)
- Susan Spierre, M.S. Earth Science, University of New Hampshire, 2008

Graduate Students – Committees:

- Andrew Augustine, Ph.D. Geography, Louisiana State University (current)
- Michael Bitton, Ph.D. Geography, Louisiana State University (current)
- Elizabeth Burakowski, M.S. Earth Science, University of New Hampshire, 2007
- Stephen Caparotta, M.S. Geography, Louisiana State University, 2008
- Jennifer Cook, M.S. Geography, Louisiana State University (current)
- Alison Cullity, M.S. Earth Science, University of New Hampshire, 2005
- Brandon Edwards, Ph.D. Geography, Louisiana State University (current)
- Sean Hribal, M.S. Geography, Louisiana State University, 2009
- Alastair Lough, Ph.D. Earth System Science, University of New Hampshire, 2007
- Hal Needham, M.S. Geography, Louisiana State University (current)
- Ricardo Nogueira, Ph.D. Geography, Louisiana State University, 2009
- Katherine Renken, Ph.D. Geography, Louisiana State University (current)
- Michael Roberts, M.S. Geography, Louisiana State University (current)
- Phillip Schmutz, Ph.D. Geography, Louisiana State University (current)

Graduate Students – Dean's Representative:

- Junhui Dong, Ph.D. Civil Engineering, Louisiana State University (current)

Louisiana State University

- Member, Faculty Evaluation Committee, Department of Geography and Anthropology, 2008 – present
- Undergraduate Advisor, Department of Geography and Anthropology, 2008 – present
- Instructor, Residential College-Global Studies Program (for Geography 2050), 2008 – present
- Chair, Assistant Professor-Research Search Committee, Department of Geography and Anthropology, 2008 – 2009
- Acting Chair, Department of Geography and Anthropology, 2008, 2009
- Member, Faculty Evaluation Procedures Review Committee, Department of Geography and Anthropology, 2008
- Member, Undergraduate Committee, Department of Geography and Anthropology, 2007 – present

University of New Hampshire:

- Chair, Faculty Search Committee, Department of Geography, 2006 – 2007
- Member, Faculty Senate, 2005 – 2007
- Member, Vice President for Research Energy Task Force, 2005 – 2007
- Undergraduate Advisor, Department of Geography, 2005 – 2007
- Organizer, GIS Day Presentation, Department of Geography, 2005 – 2007
- Presenter, UNH Hurricane Katrina Forum, 2005
- Presenter, Teacher Workshop on Indicators of Climate Change in the Northeast U.S., 2005
- Honors Program Liaison, Department of Geography, 2004 – 2007

Scholarly and Professional Organizations:

- Organizer, North American Seasonal Assessment Workshop, Shepherdstown, WV, 2009
- Member, Technical Advisory Committee, Brechtel EcoPark, New Orleans, LA, 2009 – present
- Member, AAG Scientific Freedom and Responsibility Committee, 2008 – present
- Young Scholars Director, AAG Climate Specialty Group, 2005 – 2007
- Co-developer, National Weather Service Climate Services Operations Training Unit: “Introduction to Local Climatology”, 2005
- Session Organizer, 100th Annual Meeting of the Association of American Geographers, 2004
- Participant/Contributor, U.S. Drought Monitor, 2003 – 2007
- Webmaster, AAG Climate Specialty Group, 2003 – 2007

Manuscript and Textbook Reviews:

- Atmospheric Science Letters
- Climate Research
- Geojournal
- International Journal of Climatology
- Journal of Climate
- Journal of Arid Environments
- Journal of Hydrometeorology
- McGraw Hill
- Photogrammetric Engineering and Remote Sensing
- Prentice Hall
- Water Resources Research
- Weather and Forecasting

Professional Memberships:

- Association of American Geographers (AAG)
- American Meteorological Society (AMS)
- American Geophysical Union (AGU)
- Penn State Golden Lion Society

REFERENCES

Dr. Andrew C. Comrie

Associate Vice President for Research and Dean of the Graduate College
Professor, Department of Geography and Regional Development
University of Arizona
Tucson, AZ 85721
Phone: (520) 621-1585
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Dr. Jeremy E. Diem

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Georgia State University
Atlanta, GA 30303
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Dr. Patrick A. Hesp

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Dr. John Paul Jones III

Professor and Chair, Department of Geography and Regional Development
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Dr. Barry D. Keim

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Professor, Department of Geography and Anthropology
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Dr. Kevin Robbins

Director, NOAA Southern Region Climate Center
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