ASHLEY R. COLES

December 2019

Department of Geography
Texas Christian University
TCU Box 297280
Fort Worth, Texas 76129

a.coles@tcu.edu
(817) 257-4370

EDUCATION

PhD 2013 Geography, University of Arizona. Minor: Latin American Studies
Inclusion of Resident Knowledge in Development and Hazard Management
MA 2008 Geography, University of Arizona
Managing Flash Floods: Risk Perception from a Cultural Perspective
BS 2005 Atmospheric Science, Cornell University

AREA OF INTEREST

Human-environment interactions, especially the politics of knowledge, critical development theory, and the management of environmental hazards and water resources under climate variability and change.

APPOINTMENTS

2016- Assistant Professor of Geography, Department of Geography, Texas Christian University
2013-2016 Lecturer of Geography, Department of Geology and Geography, Georgia Southern University
2005-2013 Graduate assistant, School of Geography and Development, University of Arizona
2008-2011 Adjunct Faculty, Department of Geography, Pima Community College

RESEARCH GRANTS

2018 AddRan Faculty Summer Research Grant, Texas Christian University ($3000). *Assessing flood exposure and adaptive behavior for a mobile population in Austin, TX*.
2018 Research and Creative Activities Fund, Texas Christian University ($4366). *Assessing flood exposure and adaptive behavior for a mobile population in Austin, TX*.
2017 AddRan Grant Submission Incentive Program, Texas Christian University ($5000)
2017 Research and Creative Activities Fund, Texas Christian University ($10,174). *Assessing flood exposure and adaptive behavior for a mobile population (Tucson, AZ)*.
2014 Lincoln Institute of Land Policy ($6710). *Information and infrastructure: mitigating floods and water scarcity in Cali, Colombia*.
2012 Lincoln Institute of Land Policy ($4300). *Producing knowledge that counts in participatory hazard management.*
2011 US Student Fulbright Research Fellowship, Institute of International Education ($12,800). *Producing knowledge that counts in participatory hazard management.*
2010 Tinker Summer Field Research Grant, UA Center for Latin American Studies ($1000). *Producing Knowledge that Counts in Participatory Hazard Management: Manizales, Colombia and Chimbote, Perú.*
2010 Pre-doctoral Graduate Research Grant, UA Social and Behavioral Science Research Institute ($600). *Producing Knowledge that Counts in Participatory Hazard Management: Manizales, Colombia and Chimbote, Perú.*

2007 Pre-doctoral Graduate Research Grant, UA Social and Behavioral Science Research Institute ($600). *Managing flash floods: risk perception from a cultural perspective.*

AWARDS AND HONORS

2014 Dissertation Award, Association of American Geographers Urban Geography Specialty Group.
2009 Young Scientists Outstanding Poster Paper Award, European Geosciences Union
2007 Poster Competition, 2nd Place, University of Arizona Institute for the Study of Planet Earth.
2006 Jeanne X. Kasperson Student Paper Competition, Association of American Geographers Hazards Specialty Group.
2006 Scholarship, Arizona Floodplain Managers Association.

RESEARCH EXPERIENCE

2017- **Principal Investigator.** *Assessing flood exposure and adaptation behavior for a mobile population*.

2015-2016 **Investigator.** *From pastures to private protected areas: contested geographies of ecotourism and development in northwestern Ecuador.*

2014-2016 **Principal Investigator**, Department of Geology and Geography, Georgia Southern University. *Information and infrastructure: mitigating floods and water scarcity in Cali, Colombia.* Undergraduate researcher: Zachary Strickland (honors advisee)

2008-2009 **Research Assistant**, Udall Center for Policy Studies and Climate Assessment for the Southwest (CLIMAS), University of Arizona. *Information Flows and Policy: Use of Climate Diagnostics and Cyclone Prediction for Adaptive Water Resources Management under Climatic Uncertainty in Western North America.* Advisors: Dr. Christopher A. Scott, Dr. Gregg Garfin

2005-2007 **Research Assistant**, Laboratory of Tree-Ring Research and CLIMAS, University of Arizona. *Flood Hydroclimatology for Arizona, 1950-2005.* Advisor: Dr. Katherine K. Hirschboeck

2005-2007 **Research Assistant**, Laboratory of Tree-Ring Research and CLIMAS, University of Arizona. *LTRR-SRP II: The Current Drought in Context: A Tree-Ring Based Evaluation of Water Supply Variability for the Salt-Verde River Basin.* Advisors: Dr. Katherine K. Hirschboeck, Dr. David M. Meko

2001-2005 **Undergraduate Research Assistant**, Northeast Regional Climate Center, Ithaca, NY. *An Examination of the Climatology and Environmental Characteristics of Flash Flooding in the Binghamton, New York County Warning Area.* Advisor: Dr. Arthur T. DeGaetano

PEER-REVIEWED PUBLICATIONS

Coles, A.R. (forthcoming). Building influential networks in community-managed water and sanitation near Cali, Colombia. Accepted in the *Journal of Latin American Geography.*

Coles, A.R. and Quintero Angel, M. (2018). From silence to resilience: prospects and limitations for incorporating non-expert knowledge into hazard management. *Environmental Hazards.* 17(2): 128-145. http://www.tandfonline.com/doi/full/10.1080/17477891.2017.1382319

Coles, A. (2017). "Human-Landscape Interactions." In Oxford Bibliographies in Geography. Ed. Barney Warf. New York: Oxford University Press. March 30. http://oxfordbibliographies.com/view/document/obo-9780199874002/obo-9780199874002-0155.xml

Coles, A.R., Eosco, G., Norton, T., Ruiz, J., Tate, E., and Weathers, M. (2011). Mapping local knowledge of hazards to inform research, practice, and policy in the Americas. *Gestión y Ambiente*, 14(2): 45-58.

Coles, A.R. and Scott, C.A. (2009). Vulnerability and adaptation to climate change and variability in semi-arid rural southeastern Arizona, USA. *Natural Resources Forum*, 33(4): 297-309.

Coles, A.R., Hirschboeck, K.K., and Fryberg, S.A. (in review). Driving into danger: new insights into perception and communication of flash flood risk. Submitted to *Weather, Climate, and Society.*

Coles, A.R. (in review) Assessing motorist behavior during flash floods in Tucson, Arizona. Submitted to *Transportation.*

Coles, A.R. (in review). The persistence of modernist development: ordering as common sense. Submitted to *Urban Geography*, accepted with minor revisions.

Coles, A.R. (in preparation). Precarity as a framework for natural hazards management and research. For submission to the *Annals of the Association of American Geographers*.

OTHER PUBLICATIONS

Coles, A.R. (forthcoming). Information and infrastructure: overcoming barriers to community-managed public services in Cali, Colombia. Working paper prepared for the Lincoln Institute of Land Policy. Submitted for review.

Coles, A.R. (2012). The messy business of ordering: the impacts of urban redevelopment in Manizales, Colombia. White paper prepared for the Lincoln Institute of Land Policy. https://www.lincolninst.edu/pubs/2240_The-Messy-Business-of-Ordering

Coles, A.R. (2010). "Flash Floods." In *Encyclopedia of Geography*. Thousand Oaks, CA: Sage Publications.

Coles, A.R., Scott, C.A., and Garfin, G.M. (2009). "Weather, climate, and water: an assessment of risk, vulnerability, and communication on the U.S.-Mexico border." Proceedings of the Annual Meeting of the American Meteorological Society. Phoenix, Arizona. January 11-15.

INVITED PRESENTATIONS

2019 Coles, A.R. Live performance and interactive discussion about video game music. March Smashness, Texas Christian University. March 27.

2018 Coles, A.R. "What's bugging you? Plant pathology and pests." Presentation for the Candleridge Garden Club, Fort Worth, Texas. October 16.

2018 Coles, A.R. "Assessing flood exposure and adaptive behavior for a mobile population." AddRan Faculty Spotlight. April 4.

2012 Coles, A.R. "Dendrocronología: lo que aprendemos de los anillos de árboles para la gestión de recursos hídricos en la cuenca del Río Colorado, Estados Unidos". Presentation for the Instituto de Estudios Ambientales, Universidad Nacional de Colombia. Manizales, Colombia. March 15.

2011 Coles, A.R. "Manejando por el peligro: la percepción y la comunicación del riesgo de inundaciones repentinas desde una perspectiva cultural". Presentation for the Instituto de Estudios Ambientales, Universidad Nacional de Colombia. Manizales, Colombia. September 14.

2011 Coles, A.R., Hirschboeck, K.K., and Fryberg, S.A. "Driving into danger: perception and communication of flash flood risk from a cultural perspective." Presentation for the Arizona Association of County Engineers. Payson, Arizona. June 15.

PROFESSIONAL PAPER AND POSTER PRESENTATIONS

2019 Coles, A.R. "Identification and evaluation of flood-avoidance routes in Tucson, AZ." Paper presentation at the Annual Meeting of the Southwest Division of the American Association of Geographers, Fort Worth, TX. October 10.

2019 Coles, A.R. “Identification and evaluation of flood-avoidance routes in Tucson, AZ.” Poster presented at the Annual Meeting of the American Association of Geographers, Washington, DC. April 5.

2018 Coles, A.R. “Assessing flood exposure and adaptive behavior for a mobile population.” Poster presented at the Annual Meeting of the American Association of Geographers, New Orleans, LA. April 12.

2017 Coles, A.R. “Information and infrastructure: overcoming the challenges of community-managed water and sanitation in Cali, Colombia.” Conference of Latin Americanist Geographers. New Orleans, LA. January 4.

2016 Yarbrough, R., Coles, A., and Welford M. From Pastures to Private Protected Areas: Conservation, Ecotourism, and Socio Bosque in Northwestern Ecuador. RGS-IBG Annual International Conference, London, England. September 2.

2016 Coles, A.R. “Information and infrastructure: overcoming the challenges of community-managed water and sanitation in peri-urban Cali, Colombia.” Annual Meeting of the Association of American Geographers. San Francisco, CA. April 1.

2016 Yarbrough, R., Coles, A., and Welford, M. “From pastures to private protected areas: contested geographies of ecotourism and development in Northwestern Ecuador.” San Francisco, CA. March 29.

2015 Coles, A.R. “Precarity and Hazards.” Annual Meeting of the Association of American Geographers. Chicago, Illinois. Chicago, IL. April 23.

2015 Coles, A.R. “Information and infrastructure: mitigating floods and water scarcity in Cali, Colombia.” Dimensions of Political Ecology. Lexington, KY. February 27.

2014 Coles, A.R. “The persistence of modernist development: ordering as common sense.” Annual Meeting of the Association of American Geographers. Tampa, FL. April 8.

2014 Coles, A.R. “Disastrous development: competing knowledges in development and hazard management.” Dimensions of Political Ecology. Lexington, KY. February 1.

2013 Coles, A.R. “The politics of knowledge in development and hazard management in the ‘laboratory city’ of Manizales, Colombia.” Annual Meeting of the Association of American Geographers. Los Angeles, CA. April 10.

2012 Coles, A.R. “Producing knowledge that counts in participatory hazard management.” Research Seminar on Land Policy and Urban Development in Latin America. La Antigua, Guatemala. September 19.

2012 Coles, A.R. “Inclusion of resident knowledge in development and hazard management.” United Nations World Urban Forum 6. Naples, Italy. September 3.

2012 Coles, A.R. “Resettlement, hazards, and urban renovation: how community participation can protect livelihoods.” Conference of Latin Americanist Geographers. Mérida, México. January 13.

2011 Coles, A.R., Hirschboeck, K.K., and Fryberg, S.A. “Driving into danger: perception and communication of flash flood risk from a cultural perspective.” Arizona Floodplain Managers Association. Tucson, AZ. June 9.

2011 Coles, A.R. and Quintero Angel, M. “Integrating Non-expert Knowledge into Hazard Management: the Guardianas de la Ladera in Manizales, Colombia.” Annual Meeting of the Association of American Geographers. Seattle, WA. April 12-16.

2010 Coles, A.R. “Producing Knowledge that Counts in Participatory Hazard Management.” Conference of Latin Americanist Geographers. Bogotá, Colombia. May 26-28.

2009 Coles, A.R., Hirschboeck, K.K., and Fryberg, S.A. “Driving into danger: perception and communication of flash flood risk from a cultural perspective.” Poster presented at the General Assembly of the European Geosciences Union. Vienna, Austria. April 19-24.

2009 Coles, A.R., Scott, C.A., and Garfin, G.M. “Weather, climate, and water: an assessment of risk, vulnerability, and communication on the U.S.-Mexico border.” Annual Meeting of the American Meteorological Society. Phoenix, AZ. January 11-15.

2008 Coles, A.R., and McEvoy, J. "Water resources and vulnerability to climate change in Arizona and Sonora." Joint Inter-American Institute – National Center for Atmospheric Research Advanced Study Program Colloquium, "Seasonality and Water Resources in the Western Hemisphere." Mendoza, Argentina. October 6-17.

2008 Coles, A.R., Scott, C.A., and Garfin, G.M. "Information flows and policy: Use of climate diagnostics and cyclone prediction for adaptive water-resources management under climatic uncertainty in western North America." American Institute of Professional Geologists 45th Annual Meeting, Arizona Hydrological Society 21st Annual Symposium, and the 3rd International Professional Geologic Conference. Flagstaff, AZ. September 20-24.

2008 Coles, A.R. "Managing Flash Floods: Risk Perception from a Cultural Perspective." Annual Meeting of the Association of American Geographers. Boston, MA. April 17.

2007 Coles, A.R. "Managing Flash Floods: Risk Perception from a Cultural Perspective." Annual Meeting of the American Water Resources Association. Albuquerque, NM. November 13.

2007 Coles, A.R. "Managing Flash Floods: Risk Perception from a Cultural Perspective." Southwest Hydrometeorology Symposium. Tucson, AZ. September 20.

2007 Coles, A.R. "Managing Flash Floods: Risk Perception from a Cultural Perspective." Meteorology Meets Decision Science: Risk, Forecast, and Decision. Exeter, England. Poster presentation.

2007 Coles, A.R. "Cultural Psychology and Hazards Research: An Integrated Model for Risk Perception and Warning Response Behavior." Annual Meeting of the Association of American Geographers. San Francisco, CA. April 18.

2006 Coles, A.R. "The Effect of Culture on Risk Perception, Hazard Mitigation, and Warning Response." Weather and Society*Integrated Studies Workshop. Boulder, CO. July 17.

2006 Coles, A.R. and K.K. Hirshboeck. "Rain Gages, Stream Gages, and High Water Marks: Sorting Out the Phenomenon of Flash Flooding from Multiple Perspectives." Annual Meeting of the Association of American Geographers. Chicago, IL. March 11.

OTHER PROFESSIONAL CONFERENCE ACTIVITIES

2019 Hazards, Risk, and Disasters I and II. Co-organizer for both sessions, and chair of session II. Annual Meeting of the Southwest Division of the American Association of Geographers. Fort Worth, TX. October 10-11.

2019 Best Practices Roundtable: Storymaps. Session co-organizer. Annual Meeting of the Southwest Division of the American Association of Geographers. Fort Worth, TX. October 10-11.

2016 "Sanitation Inadequacy: Beyond Poverty and Preferences." Discussant, sessions 1 and 2. Annual Meeting of the American Association of Geographers. San Francisco, CA. April 1.

2015 "Taking Account of Culture in the Study of Risk and Disasters, and in Disaster Risk Reduction (DRR) Practice." Panelist. Annual Meeting of the Association of American Geographers. Chicago, IL. April 22.

2013 "The Fulbright Experience: Sharing Faculty and Student Perspectives." Panelist. Annual Meeting of the Association of American Geographers. Los Angeles, CA. April 9.

2010 "Institute for the Integration of Research on Climate Change and Hazards in the Americas." Participant. Pan-American Advanced Studies Institute, Association of American Geographers. Panama City, Panama. June 13-26.

2008 "Seasonality and Water Resources in the Western Hemisphere." Participant. Joint Inter-American Institute – National Center for Atmospheric Research Advanced Study Program Colloquium, Mendoza, Argentina. October 6-17.

TEACHING EXPERIENCE

Assistant Professor, Department of Geography, Texas Christian University

GEOG 10003 World Regional Geography (Fall 2016, Spring 2017, Fall 2017, Spring 2018, Spring 2019)
GEOG 10013 Physical Geography (Fall 2017, Fall 2018, Fall 2019)
GEOG 30703 Environment and Society (Spring 2017, Spring 2019)
GEOG 30763 Economic Geography (Fall 2018)

Lecturer, Department of Geology and Geography, Georgia Southern University
GEOG 1130 World Regional Geography (Fall 2013, Fall 2014, Spring 2015, Fall 2015, Spring 2016)
GEOG 3230 Economic Geography (Fall 2013, Fall 2014, Fall 2015)
GEOG 3530 Cultural Geography (Fall 2014)
GEOG 4232 Geography of Latin America (Spring 2014, Spring 2016)
GEOG 4330 Geography of Sub-Saharan Africa (Spring 2015)
GEOG 5430 Political Geography (Spring 2014, Spring 2016)
GEOG 5090 Environment and Society (Spring 2014, Spring 2015)

Instructor, School of Geography and Development, University of Arizona
INDV 103 Environment and Society (Spring 2010, Fall 2010, online Summer 2011).
GEOG 230 Our Changing Climate (Spring 2011, online Summer 2012, Summer 2010).
GEOG 404 Politics of Nature (Fall 2012).

Adjunct Faculty, Department of Social Sciences, Pima Community College
GEO 101 Weather and Climate (Lecture and lab, Fall 2008, Fall 2010, Spring 2011).
GEO 103 Cultural Geography (Winter 2009).

Teaching Assistant, School of Geography and Development, University of Arizona
NATS 101 Global Change. Instructors Dr. Hirschboeck (Fall 2005) and Dr. Leavitt (Spring 2006).
INDV 103 Environment and Society. Instructor Katherine Meehan (Fall 2009).
GEOG 303 Field Study in Environmental Geography. Instructor Dr. Kristina Bishop (Spring 2013).

Pedagogy workshops
2017 TCU Online ePortfolio Introduction: Showcase Yourself as a Teacher-Scholar. November 6.
2016 Active Learning Reboot. August 12.
2016 Free Collaboration Tools for the Classroom. August 9.
2014 Designing Courses for Significant Learning: Student-Centered Classrooms. Summer Workshop for New Faculty in the College of Science and Mathematics. Georgia Southern University. July 7-31.
2014 Workshop for Early Career Faculty & Graduate Students. Geography Faculty Development Alliance. University of Connecticut, June 22-28.
2014 What's all the Fuss about the FLIP? Flipping over the Inverted Classroom. April 4.
2014 Averting Death by Academic PowerPoint! April 4.
2014 Teaching Students to Argue? Critical Thinking & the 21st Century Student. March 7.
2014 Can we Talk? Facilitating and Engaging Students in Discussions. February 7.
2013 Teaching and Developing Online Courses. Georgia Southern University. September 30-November 1.
2013 Develop Rubrics to Accurately & Consistently Measure Learning Outcomes. November 1.
2013 Design Multiple Choice Tests to Foster Student Learning. October 16.
2013 Introduction to Online Teaching and Learning. September 20.

Guest lectures at Texas Christian University
2019 Sub-Saharan Africa. For Lauren Geffert's World Regional Geography. November 12 and 14.
2018 How to design award-winning posters. For Kyle Walker's Advanced GIS. April 24.

SERVICE

Student Advising and Mentoring

2018- Dissertation committee member for Bokjin Roh, Geography, University of Arizona
2016-2017 Undergraduate thesis committee member for Mohammed Kassim, Geography and Environmental Studies, State University of Zanzibar
2014-2017 Master's thesis committee member for Sarah Ryniker, Political Science, Georgia Southern University
2015 Dissertation committee member for Mauricio Quintero Angel, Environmental Sciences, Universidad del Valle
2014-2015 Honors thesis advisor for Zachary Strickland, Civil Engineering, Georgia Southern University

Departmental Service

2017- Information sessions, 1-2 per semester. "What is geography, and what do geography majors do after graduation?"
2016-2019 Record and circulate minutes for faculty meetings. Department of Geography, Texas Christian University.
2014-2015 Seminar Committee, Department of Geology and Geography, Georgia Southern University
2013-2015 Library Representative, Department of Geology and Geography, Georgia Southern University
2013-2015 Scholarship Committee, Department of Geology and Geography, Georgia Southern University
2008-2011 Colloquium Speakers' Committee, School of Geography and Development, University of Arizona

College and University Service

2019- Search committee, Dean of AddRan College
2018- Social Sciences Core Curriculum Assessment Committee
2018- AddRan College Curriculum Committee
2018- Sustainability Committee
2018 Facilitator, Faculty Bystander Intervention Training. February 23 and May 2.
2018 Facilitator, Tunnel of Oppression. January 25.
2018 Dean's Award Selection Committee.
2017 Ad hoc organizing committee, TCU Community Engagement Conference (held October 26-28).
2014-2016 Faculty Advisor, Georgia Southern University Aikido Club.
2015 Facilitator, Creating Award-Winning Posters. Workshop for undergraduates in the College of Science and Mathematics, Georgia Southern University. March 11.
2015 Thinking about Graduate School. Information session for undergraduates in the College of Science and Mathematics, Georgia Southern University. March 25.
2014 Creating Award-Winning Posters. Workshop for undergraduates in the College of Science and Mathematics, Georgia Southern University. October 28.
2010-2012 Travel Grants Judge, University of Arizona Graduate and Professional Student Council

Professional Service

2019 Planning committee, Annual Meeting of the Southwest Division of the American Association of Geographers.
2019 Texas Geography Education Grant Advisory Committee, National Geographic Education
2018 Newsletter Editor. Hazards Specialty Group, American Association of Geographers
2018 Manuscript review, *Water Alternatives*

2015 Student Paper Award Committee. Latin American Studies Specialty Group, Association of American Geographers.
2013 Volunteer, Annual Meeting of the Association of American Geographers
2013 Manuscript review, *Journal of Environmental Management*
2013 Manuscript review, *you are here: the journal of creative geography*
2010 Manuscript review, *Natural Resources Forum*
2007-2008 President, Southeastern Arizona Geographers' Association
2006-2010 Editorial staff, *you are here: the journal of creative geography*
2006 Volunteer, Annual Meeting of the American Meteorological Society
2004-2005 President, Cornell Chapter of the American Meteorological Society
2003-2004 Secretary, Cornell Chapter of the American Meteorological Society

Community Service and Outreach

2017 Designed and taught a service learning course on behalf of the Great Plains Restoration Council
2012 Volunteer instructor, English as a Foreign Language. Ages 7-14, Manizales, Colombia.
2007 Volunteer instructor, English as a Foreign Language. Adults, Tucson, Arizona.
2005 "Cloud Types." Presentation for Brenham Elementary School, Austin, Texas. November 25.
2005 "Pre-historic Natural Hazards: How do we know they occurred, and why do we care?" Presentation for Apollo Middle School, Tucson, Arizona. October 31.

ACTIVE PROFESSIONAL AFFILIATIONS

Association of American Geographers
South Western Division of the Association of American Geographers
Society for Social Studies of Science (4S)
Conference of Latin Americanist Geographers

ADDITIONAL EXPERIENCE

2019 Diversity, Equity, and Inclusion in Hiring Training. Texas Christian University. November 21.
2017 Ally Identity Development Workshop. Texas Christian University. October 20.
2017 Safe Zone Training, Texas Christian University. November 17.
2017 Faculty Bystander Intervention Train-the-Trainer. May 15.
2017 Faculty Bystander Intervention Training, Texas Christian University. January 13.
2016 Advisor Professional Development, Core Curriculum, Texas Christian University. October 19.
2014 Safe Space Training, Georgia Southern University. April 14.
2013 Updated course materials and textbook supplements for the companion website of Robbins, P., Hintz, J., and Moore, S.A. (2014). *Environment and Society, 2nd Edition*. Wiley-Blackwell.
2010 Developed the course materials and textbook supplements for the companion website of Robbins, P., Hintz, J., and Moore, S.A. (2010). *Environment and Society*. Wiley-Blackwell.