

Afton Clarke-Sather

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Education

- 2012 Ph.D. in Geography, University of Colorado at Boulder, Boulder, CO
Subfields: Political Ecology, Political Geography, and Geography of China
- 2007 M.S. in Environmental Policy, Michigan Technological University, Houghton, MI
- 2004 B.A. in Politics with Honors in Major Study, Whitman College, Walla Walla, WA

Appointments

- 2012-Present Assistant Professor, Dept. of Geography, University of Delaware, Newark, DE.
- 2015 Visiting Scholar, University of Minnesota Water Resources Center, St. Paul, MN
- 2014-Present Visiting Associate Professor, Scientific Information Center for Resources and the Environment, Chinese Academy of Sciences, Lanzhou, China
- 2009-2010 Visiting Scholar, Scientific Information Center for Environment and Resources, Chinese Academy of Sciences, Lanzhou, China
- 2009-2011 Instructor, Dept. of Geography, University of Colorado, Boulder, CO
- 2007-2012 Teaching Assistant, Dept. of Geography, University of Colorado, Boulder, CO
- 2007 International Sustainable Development Engineering Research Experiences Program Fellow (ISDERP) NSF/ Michigan Technological University, La Paz, Bolivia.
- 2005-2007 Teaching Assistant, Dept. of Social Sciences Michigan Technological University, Houghton, MI
- 2004-2005 English Instructor, Northwestern Polytechnic University, Xi'an, China

Grants and Awards

(Total research related funding US \$117,000 **bolded**)

- 2015 National Natural Science Foundation of China *Evaluating the Impact of Green Water Management Strategies on Crop Water Productivity of Agricultural Systems in Semi-Arid Regions*. **\$26,000**
- 2014 Chinese Academy of Sciences President's International Fellowship Initiative *Evaluating the Impact of Green Water Management Strategies on Crop Water Productivity* **\$24,000**
- 2014 University of Delaware Global Scholars Award *Comparing Climatic Adaptation Practices of Agricultural Producers in Arid and Semi-Arid regions of China* **\$9,956**
- 2014 University of Delaware General University Research Grant *The Political Economy of Irrigation Expansion in the Delmarva Peninsula* **\$6000**
- 2014 University of Delaware Writing Center Writing Fellows Program 2x \$500
- 2013 University of Delaware Writing Center Writing Fellows Program \$500
- 2011 University of Colorado Graduate School Summer Dissertation Fellowship \$6000
- 2011 University of Colorado United Government of Graduate Students Travel Grant. \$300
- 2009 Fulbright-Hays Doctoral Dissertation Research Abroad Grant. **\$32,594**
- 2009 National Science Foundation (Geography and Spatial Sciences Program) Doctoral Dissertation Research Improvement Grant. **\$12,000**
- 2009 Association of American Geographers Political Geography Specialty Group Dissertation Enhancement Award. **\$800**
- 2009 Beverly Sears Named Fellowship (best research proposal in social sciences), University of Colorado Graduate School. **\$2,000**
- 2008-2009 Foreign Language Areas Studies (FLAS) Fellowship for Chinese Language, University of Colorado.
- 2008 US Department of State/CAORC Critical Language Scholarship for Chinese, Heilongjiang University, Harbin, China.
- 2007 Michigan Tech Graduate Student Association Travel Grant. \$300
- 2006-2007 Sustainable Futures Institute Graduate IGERT Scholar, Michigan Technological University.
- 2006 UC Berkeley/ Ford Foundation Community Forestry Research Fellowship. **\$3700**
- 2000-2004 Penrose Academic Scholarship, Whitman College.

Grants Submitted

- 2017 US Geological Survey Water Resources Centers National Competitive Grants Program (section 104g) *The Impact of Irrigation on Ground and Surface Water in the Delmarva Peninsula in a Changing Climate* \$250,000 Pending
- 2017 University of Delaware Research Foundation *Estimating the Impact of Irrigation on Water and Energy Use in Maize Production in Delaware in a Changing Climate* \$35,000 Pending
- 2016 NSF Geography and Spatial Sciences Program *Doctoral Dissertation Research: Re-Wilding the Body in the Anthropocene: Lessons from the Microbiome and the Paleo Diet*. \$16,000 Chelsea Leiper, Paul Jackson Co-PIs Rejected
- 2016 NSF Geography and Spatial Sciences Program *Doctoral Dissertation Research: Re-Wilding the Body in the Anthropocene: Lessons from the Microbiome and the Paleo Diet*. \$16,000 Chelsea Leiper, Paul Jackson Co-PIs Rejected
- 2015 NSF Geography and Spatial Sciences Program *Doctoral Dissertation Research: River Network Fragmentation, Climate Change, and Perceptions of Surface Water Sustainability in the U.S. Central Great Plains*. \$12,199 Sarmistha Chatterjee Co-PI Rejected
- 2014 NSF Geography and Spatial Sciences Program *Dynamics of Green Water Governance Strategies on Water Use and Producer Livelihoods in Northwest China* \$195,718 Rejected

Peer Reviewed Publications

Leiper, C. and A. Clarke-Sather (*in press*) "Co-Creating and Alternative: The Moral Economy of Consumer and Producer Motivations for Participating in Farmers Markets" *Local Environment* <http://dx.doi.org/10.1080/13549839.2017.1296822>

Clarke-Sather, A. (*in press*) "State Power and Domestic Water Provision in Semi-arid Northwest China: Towards an Aleatory Political Ecology" *Political Geography* <http://dx.doi.org/10.1016/j.polgeo.2015.12.003>

Clarke-Sather, A., B. Crow-Miller, J. Banister, K. Thomas, E. Norman, and S. Stephenson. (*in press*) "The Shifting Geopolitics of Water in the Anthropocene." *Geopolitics*: 1-28. <http://dx.doi.org/10.1080/14650045.2017.1282279>

Clarke-Sather, A. 2015 Hydrosocial Governance and Agricultural Development in Semi-Arid Northwest China. In *Negotiating Water Governance: Why the politics of scale matter*. Ed. E. Norman, C. Cook, and A. Cohen. London: Ashgate.

Clarke-Sather, A. 2012 "State development and the rescaling of agricultural hydrosocial governance in semi-arid Northwest China." *Water Alternatives* 5 (1) pp 98-188.

Clarke-Sather, A. and B. Solomon. 2012. "Grantocracy: Conservation grant-making and the territorialization of neoliberalism in Michigan's Keweenaw Peninsula." *Geoforum* 43 (1) pp. 68-80.

Clarke-Sather, A., J. S. Qu, Q. Wang, J.J. Zeng, and Y. Li. 2011. "Carbon Inequality at the Sub-National Scale: A Case Study of Provincial-Level Inequality in CO2 Emissions in China 1997-2007". *Energy Policy* 39 (9) pp. 5420-5428.

Ballard, M., A. Clarke, **A. Sather-Knutsen**, B. Barkdoll, and J. Mihelcic. 2008, May 16-19, "Collaborative International Research: Technology Transfer & Efficiency of Wastewater Treatment Systems in Rural Communities of Bolivia," *World Water Resources Congress*. Honolulu HI.

Papers in Review and Preparation

Clarke-Sather, A. "But we are the Most Backward: Modernity, Hierarchy, and National Identity in Modern China" (revise and resubmit) *Annals of the Association of American Geographers*

A. Clarke-Sather, X. Tang, X.L. Xiong and J.S. Qu. (*in review*) "The Impact of Green Water Policies on Household Agricultural Water Productivity in a Semi-Arid Region: A Survey-based Assessment" *Agricultural Water Management*

Liu, L., **A. Clarke-Sather**, J.S. Qu, J.J Zeng, L. Wang, Y. Bian (*in review*) "The Effect of Regionalization Approaches on Regional Inequality in China's Per Capita Household CO₂ Emissions"

Chatterjee, S., K. Davis, and **A. Clarke-Sather** "Choice of Development Indicators Impacts Concentration of CO₂ Emissions Relative to Economic Development" in preparation for *Energy Policy* (80% complete)

Clarke-Sather, A., R. Rosenstein and J.S. Qu. "Global Concentration of Climate Change Risks Relative to Cumulative Historical CO₂ Emissions" in preparation for *Global Environmental Change*. (60% complete)

Clarke-Sather, A. and Y. Wang "Global crop yield gaps not predicted by level of economic development" in preparation for *Proceedings of the National Academy of Sciences* (60% complete)

Clarke-Sather, A. "The Politics of Water Security in Global Green and Virtual Water Discourses" for submission to *Geoforum*

Conference Presentations and Invited Lectures

Clarke-Sather, A. 2016, November 14 "From the Heavens to the Markets: Green Water Governance in Northwest China." Portland State University. Department of Geography.

Clarke-Sather, A. 2016 March 31 "The Politics of Water Security in Global Green and Virtual Water Discourses" Annual Meeting of the Association of American Geographers. San Francisco CA

Clarke-Sather, A. 2015 December 15 "From the Heavens to the Markets: Green Water Governance in Northwest China" University of Minnesota Water Resources Center Seminar

Clarke-Sather, A. 2015 August 19. "The Impact of Economic Development on Global Yield Gaps" Chinese Academy of Sciences. Lanzhou, China.

Clarke-Sather, A. 2015 April 25. From Flows to Fluxes: Conceptualizing the Geopolitics of Water and Climate Change Across the Water Cycle Annual Meeting of the Association of American Geographers. Chicago IL

- Clarke-Sather, A.** 2015 April 20 “Nature and Nation in the Lanzhou’s Yellow River Scenic Corridor” Political Geography Specialty Group Preconference Association of American Geographers. Chicago IL
- Clarke-Sather, A.** 2015 April 2. “Irrigation in the United States” Chinese Academy of Sciences, Lanzhou China.
- Clarke-Sather, A.** 2014 June 19. “The Problem With Green and Virtual Water” IGU International Conference on Political Geography and the Environment. Eugene Oregon.
- Clarke-Sather, A.** 2014 April 9. “Water Use Efficiency in Subsistence and Commercial Cropping Systems in Gansu Province, China.” Annual Meeting of the Association of American Geographers, Tampa FL.
- Clarke-Sather, A.** 2014 April 7. “Backward Spaces in the Modern Chinese Nation” Political Geography Specialty Group Preconference Association of American Geographers. Tampa FL
- Clarke-Sather, A.** 2014 March 31. “ ‘But we are the most backward’ placing Dingxi, Gansu in the Modern Chinese Polity” Association for Asian Studies, Philadelphia, PA.
- Clarke-Sather, A.** 2013 May 5. Shades of Green and Blue: Agricultural Water Management in Northwest China. University of Delaware Department of Geology.
- Clarke-Sather, A.** 2013 April 11. “State Power and Domestic Water Provision in Semi-arid Northwest China: Towards an Aleatory Political Ecology.” Annual Meeting of the Association of American Geographers, Los Angeles, CA.
- Clarke-Sather, A.** 2012, Feb 26. “The Capital of Potatoes and Urbanization of Agricultural Development in Northwest China.” Annual Meeting of the Association of American Geographers, New York, NY.
- Clarke-Sather A.** 2011, Nov 30. “From the Heavens to the Markets: State, Development, and the Remaking of Water in Northwest China.” University of Delaware, Department of Geography
- Clarke-Sather A.** 2011, Nov 18. “From the Heavens to the Markets: State, Development, and the Remaking of Water in Western China.” University of Colorado, Department of Geography
- Clarke-Sather, A.** 2011, Sept 29 “From the Heavens to the Markets: State Development and the Mediation of Nature in Northwest China” University of Colorado Center for Asian Studies, Boulder, CO.
- Clarke-Sather, A.** 2011, April 14 “Aridity, Agriculture and the Rescaling of Nature in Northwestern China” Annual Meeting of the Association of American Geographers, Seattle, WA.
- Clarke-Sather, A.** 2011, April 1 “Drinking Water Security and National Development in Northwest China” Joint Conference of Association for Asian Studies and the International Convention of Asia Scholars. Honolulu, HI.
- Clarke-Sather, A.** 2010, November 25 “Agricultural Water Technologies and Agricultural Cropping Patterns in Dingxi, Gansu.” Invited Lecture at Lanzhou Branch of the Chinese Academy of Sciences. Lanzhou, China.
- Clarke-Sather, A.** 2010, April 24 “Landscape and Nation in the Yellow River Piano Concerto: Towards a Structurationist Position on National Culture in International Classical Music ”

Symposium on Constructing China's Nationhood: Music and Transmission in East Asia, Organized by the Department of Music, School of Humanities, The University of Hong Kong. Hong Kong, China.

Clarke-Sather, A. 2009, October 30 “Urbanization and the Environment in the United States.” Invited Lecture at Lanzhou Branch of the Chinese Academy of Sciences. Lanzhou, China.

Clarke-Sather, A. 2009, March 23 “Veins of the nation: Development, Dams, and Nation-Building in Ningxia” Annual Meeting of the Association of American Geographers, Las Vegas, NV.

Clarke-Sather, A. 2009, February 18 “Essential Understandings About Chinese Geography” prepared and presented for the National Consortium for Teaching Asia workshop, Northglenn Colorado.

Sather-Knutsen, A. 2008, April 18, “Rearticulating Chinese Nationality Identity in the Yellow River Piano Concerto” Annual Meeting of the Association of American Geographers, Boston, MA.

Sather-Knutsen, A., Clarke, A., Ballard, M., Mihelcic, J. and N. Reents, 2007, September 29, “Community and the State in Wastewater Management in the Alto Beni Region of Bolivia,” Association of American Geographers Great Plains – Rocky Mountain Annual Meeting. Denver, CO.

Sather-Knutsen, A. 2007, April 20, “The Politics of Parcels: Community and Landownership Change in the Keweenaw Peninsula” Annual Meeting of the Association of American Geographers, San Francisco, CA.

Sather-Knutsen, A. 2006, October 31, “Community Responses to Landscape Parcelization in the Keweenaw Peninsula” invited lecture Human Dimensions of Natural Resources course, Michigan Technological University.

Sather-Knutsen, A. and E. McDonald, 2006, September 17, “Community Responses to Landscape Parcelization in Michigan’s Keweenaw Peninsula,” 2006 Community Forestry Research Fellowship Workshop, Missoula, Montana.

Teaching (As Instructor of Record)

At University of Delaware

2017S Geography 320 Water and Society (22 students)

2017S Geography 422/622 Resources, Environment, Development (30 students)

2016F Geography 120 World Regional Geography (150 students)

2015S Geography 422/622 Resources, Environment, Development (29 students)

2014F Geography 120 World Regional Geography (151 students)

2014F Geography 320 Water and Society (45 students)

2014S Geography 422/622 Resources, Environment, Development (20 students)

2014S Geography 120 World Regional Geography (130 students)

2013F Geography 120 World Regional Geography (180 students)

2013F Geography 320 Water and Society (30 students)

2012F Geography 320 Water and Society (50 students)

At University of Colorado

2011F Geography 3682 Geographies of International Development (80 students)
 2009 Summer Geography 1982 World Regional Geography (50 students)

Graduate Student Committees Served (bold indicates committee chair)

Chelsea Leiper, 2014, M.A. Geography

Mary Schorse, 2014, Ph.D. Geography

Eric Pugliano, 2015, M.A. Geography

Kelsea Schumaker, 2016, Ph.D. Energy and Environmental Policy

Sarmistha Chatterjee, 2017, Ph.D. Geography

Micah Petersen, in progress, M.A. Geography

Jaime Barret, in progress, M.A. Geography

Matthew Ludington, in progress, M.S., Water Science and Policy

Briana Diacopoulos, in progress, M.S., Water Science and Policy

Chelsea Leiper, in progress, Ph.D. Geography

Asia Downtin, in progress, Ph.D. Geography

Curt Davis, in progress, Ph.D. Energy and Environmental Policy

Lina Liu, in progress, Ph.D. Geography, Lanzhou University, China (faculty host for 2014-2015 research at University of Delaware)

Jingjing Zeng, in progress, Ph.D. Geography, Lanzhou University, China (faculty host for 2016-2017 research at University of Delaware)

Undergraduate Research Students Supervised

2016 Lauren Glinko (Delaware Water Resource Center Summer Scholar, \$3,500 grant)

2016 Rachel Rosenstein

2015 Yuhao Wang

2014 Kelsey Wentling (Delaware Environmental Institute Scholar \$3,000 grant)

2014 Mengzheng Yao (Delaware Environmental Institute Scholar \$3,000 grant)

Panels Organized

2015 April 15-21 *The Geopolitics of Water* Annual Meeting of the Association of American Geographers, Chicago, IL. Co-organized with B. Crow-Miller (Geography, Portland State University).

2014, March 27-30. *Territorial Classification, State Power, and National Identity in China's Periphery* Association for Asian Studies Annual Conference. Philadelphia PA

2011, April 1. *Environmental Management and Nation Building in China's Periphery: Historical and Geographical Approaches*. Joint Conference of Association for Asian Studies and the International Convention of Asia Scholars. Honolulu, HI. Co-organized with J. Schlesinger (History, Indiana University) and J. Kinzley (History, University of Wisconsin Madison)

Professional Service

2017 Reviewer for *Water Alternatives*

- 2016-present Advisory board member Delaware Water Resources Center
- 2016 Reviewer for *Israeli Science Foundation, Transactions of the British Institute of Geographers, Climate Policy*
- 2014-2016 National Councilor, Political Geography Specialty Group of the Association of American Geographers
- 2015 Reviewer for *Energy Policy, Geoforum, Urban Environment, Transactions of the British Institute of Geographers*
- 2014 Reviewer for *Energy Policy, Geoforum, Environment and Planning A, Applied Geography, Critical Historical Studies*
- 2013 Reviewer for *Energy Policy, Energy Efficiency*
- 2013 Panelist for National Science Foundation, Directorate of Social, Behavioral, and Economic Sciences
- 2012 Reviewer for *Water Alternatives*

University Service

- 2016-present Water Science and Policy Graduate Program Committee
- 2016-present Geography Department Seminar Committee
- 2015 Geography Department Chair Search Committee
- 2014 Human Geography Faculty Search Committee
- 2013 Human Geography Faculty Search Committee
- 2013-present Departmental Representative to the American Association of University Professors
- 2012-2013 Departmental Representative to the Delaware Valley Geographic Alliance
- 2012 Internal reviewer for Environmental Studies Program unit review, University of Colorado, Boulder
- 2008-2009 University of Colorado, Boulder Department of Geography. Graduate Student Representative to the Faculty.

Workshops and Other Training

- 2016 University of Delaware Winter Faculty Problem Based Learning Workshop, Newark Delaware, January 6-8.
- 2011 Association of American Geographers Early Career Geography Faculty Development Alliance Workshop. Boulder, CO June 12-18
- 2009 Association for Asian Studies Dissertation Workshop on Politics of the Environment in Asia. Chicago, IL. March 29-April 1, 2009.

Professional Association Memberships

- Association for Asian Studies
- Association of American Geographers

Languages

- Proficient Mandarin Chinese
- Proficient Spanish