

RUTH MOSTERN

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EMPLOYMENT

2016-present, Associate Professor of History, University of Pittsburgh (on leave 2016-17)
2004-2017, Founding Faculty, University of California at Merced School of Social Sciences,
Humanities and Arts, History and World Cultures Department (2010-2017,
Associate Professor; 2004-2010, Assistant Professor)
2000-04, University of California at Berkeley, Electronic Cultural Atlas Initiative (ECAI)
Head of Collections Development (Associate Academic Specialist)

LEADERSHIP POSITIONS

2012-16, UC Merced Interdisciplinary Humanities Graduate Group Founder and Chair
2014-15, UC Merced Center for the Humanities Interim Director
2008-15, UC Merced Spatial Analysis and Research Center Co-Founder and Co-Director
2013-14, UC Merced Faculty Senate Committee on Research Chair

VISITING POSITIONS

April 2012, Visiting Scholar, Institute for Historical Geography, Fudan University, Shanghai,
China
February 2012, Visiting Scholar, Spatial History Project, Stanford University
June 2010, Visiting Faculty, Learning Spatially (LENS) Summer Institute: Mapping People,
University of Redlands
July-August 2006, Visiting Fellow, Archaeological Computing Laboratory, University of
Sydney, Australia
1997-8, Visiting Scholar, Tōyō Bunko, Tokyo, Japan
1996-7, Visiting Scholar, Institute of History and Philology, Academia Sinica, Taipei, Taiwan

EDUCATION AND PROFESSIONAL DEVELOPMENT

2014, Participant, Higher Education Resource Services (HERS) Institute, Denver, Colorado

2003, Ph.D., University of California at Berkeley Department of History
1992, M.A. University of California at Berkeley Department of History
1989, B.S. Georgetown University School of Foreign Service, *cum laude*

FELLOWSHIPS

Postdoctoral

2016-17, UC Merced Center for the Humanities Water Seminar Fellow (one semester course buyout)
2011-12, American Council of Learned Societies Digital Innovation Fellowship, “The State of the River: Three Thousand Years of Imperial Engineering in North China” (full salary replacement and \$25,000 project costs)
2010, University of California, Merced Chancellor’s Fellowship (\$5,000)
2007-8, University of California President’s Research Fellowship in the Humanities (full salary replacement)
2006, Short Term Visiting Fellowship, University of Sydney School of Philosophical and Historical Inquiry (\$10,000)
2004-5, Council on Library and Information Resources Post-Doctoral Fellowship in Library and Information Resources, University of Virginia [declined]

Predoctoral: Extramural

1998-9, Mabelle McCleod Lewis Dissertation Fellowship
1997-8, Fulbright-Hays Doctoral Dissertation Research Abroad Fellowship
1996-7, ACLS/Chiang Ching-kuo Foundation Dissertation Research Fellowship
1996-7, Mombusho Dissertation Fellowship (Japanese Department of Education) [declined]
1994, Andrew Mellon Foundation Pre-Dissertation Fellowship

Predoctoral: UC Berkeley (Selected)

1999-2000, Institute of International Studies Simpson Memorial Research Fellowship
1999, UC Berkeley History Department Research Grant
1999, UC Berkeley Humanities Research Grant
1995-6, UC Berkeley Graduate Division Fellowship
1992-3, Foreign Languages and Area Studies Fellowship
1990-2, UC Berkeley Institute for East Asian Studies Fellowship

PUBLICATIONS

Books

Placing Names: Enriching and Integrating Gazetteers, Indiana University Press 2016 (edited with Humphrey Southall and Merrick Lex Berman).

http://www.iupress.indiana.edu/product_info.php?products_id=808056.

Dividing the Realm in Order to Govern: The Spatial Organization of the Song State (960-1276 CE), 2011 Harvard University Asia Center Monographs distributed by Harvard University Press. <http://www.hup.harvard.edu/catalog.php?isbn=9780674056022>.

Digital Publications

Norton StoryMaps (New York: Norton, 2013). 50 authored and annotated historical maps on ten world history topics, designed to accompany Norton's world history and western civilization textbooks. Delivered on Norton's instructor DVDs and student course packs.

Teaching Silk Road History with Google Earth. Website and YouTube video, 2010. Hosted by the UC Merced Center for Research on Teaching Excellence.

http://crte.ucmerced.edu/teaching_silk_road_history.

The Digital Gazetteer of Song Dynasty China (with Elijah Meeks), MySQL Database and GIS shapefiles, 2010. Hosted by the UC Merced Library at <http://songgis.ucmercedlibrary.info>.

Journal Articles

Don't Just Build It, They Probably Won't Come: Rethinking Data Sharing and the Social Life of Data in the Historical Quantitative Social Sciences, *International Journal of Humanities and Arts Computing* 10.2 (2016), 205–224 (with Marieka Arksey).

Sediment and State in Imperial China: The Yellow River Watershed as an Earth System and a World System, *Nature and Culture* 11.2 (Summer 2016), 121-147.

Traveling the Silk Road on a Virtual Globe: Pedagogy, Technology and Evaluation for Spatial History, *Digital Humanities Quarterly* 7.2 (2013)(with Elana Gainor).

On Historical Gazetteers, *International Journal of Humanities and Arts Computing* 5.2 (2011), 127-145 (with Humphrey Southall and Merrick Lex Berman).

From Named Place to Naming Event: Creating Gazetteers for History, *International Journal of Geographic Information Science* 22.10 (October 2008), 1091-1108 (with Ian Johnson).

Putting the World in World History, *Journal of the Association of History and Computing* 13.1 (2010). <http://hdl.handle.net/2027/spo.3310410.0013.103>.

Historical Gazetteers: An Experiential Perspective, With Examples from Chinese History, *Historical Methods* 41.1 (Winter 2008), 39-46.

Geographic Search: Catalogs, Gazetteers, and Maps, *College and Research Libraries* 68.5 (September 2007) (with Michael Buckland, Aitao Chen, Frederic C. Gey, Ray R. Larson, and Vivien Petras), 376-387.

Resources and New Strategies for Central Asian Studies: The Electronic Cultural Atlas Initiative Approach, *Central Eurasian Studies Review* 2.3 (2003), 2-7 (with Lewis Lancaster).

Geographical Information and Historical Research: Current Progress and Future Directions, *History and Computing* 13.1 (2003), 7-23 (with Ian Gregory and Karen Kemp).

Book Chapters and Conference Proceedings

Digital Gazetteers: Modeling Historical Places, David Staley, ed., *The Companion to Digital History*, in contract at Wiley Press [in preparation]

Mapping the Tracks of Yu: Yellow River Statecraft as Sciences and Technology, 1200-1600, Patrick Manning and Abigail Owen, ed., *Found in Translation: World History of Science, 1200-1600 CE* (Pittsburgh: University of Pittsburgh Press, 2017).

The Political Landscape of Imperial China: Mapping State Power Using Administrative Geography, in Donald DeBats, Ian Gregory and Don Lafreniere, eds., *The Routledge Handbook of Spatial History* (Routledge, 2017).

Introduction, in Merrick Lex Berman, Ruth Mostern and Humphrey Southall, eds., *Placing Names: Enriching and Integrating Gazetteers* (Indiana University Press, 2016) (with Merrick Lex Berman and Humphrey Southall), 1-11.

Gazetteers Past, in Merrick Lex Berman, Ruth Mostern and Humphrey Southall, eds., *Placing Names: Enriching and Integrating Gazetteers* (Indiana University Press, 2016) (with Humphrey Southall), 15-27.

The Politics of Territory in Song Dynasty China, in Ian Gregory and Alistair Geddes, ed., *Rethinking Space and Place: New Directions with Historical GIS* (Bloomington: Indiana University Press, 2014), 118-142. (with Elijah Meeks).

China's Age of Seafaring, in Naomi Standen, ed., *Demystifying China: New Understandings of Chinese History* (Lanham, MD: Rowman and Littlefield, 2013), 109-116.

'The Usurper's Empty Names': Spatial Organization and State Power in the Tang-Song Transition, Peter Lorge, ed., *The Five Dynasties and Ten Kingdoms* (Hong Kong: Chinese University Press, 2011), 125-166.

The Qinling Frontier and the Creation of Imperial Space in Western China, Feng Suiping, Li Rui, Brian Lees & David Jupp, eds. *The Collected Papers of the International Symposium of Plank Roads and Applications of 3S Technology*, (Xi'an: Shaanxi Jiaoyu chubanshe, 2008), 78-102.

From Battlefields to Counties: War, Border and State Power in Southern Song Huainan, Don Wyatt, ed. *Battlefronts Real and Imagined: War, Border and Identity in the Chinese Middle Period* (New York: Palgrave MacMillan, 2008), 227-252.

Cartography on the Song Frontier: Making and Using Maps in the Song-Xia Conflict, Evidence from *Changbian* and *Song huiyao*, *Proceedings of the Third International Symposium on Ancient Chinese Books and Records of Science and Technology* (Beijing: Daxiang chubanshe, 2004), 147-152.

Spatial Vagueness and Uncertainty in the Computational Humanities, *Proceedings of the First*

COSIT Workshop on Spatial Vagueness, Uncertainty and Granularity, Ogunquit, ME, CD (2001) (with Karen Kemp). http://www.comp.leeds.ac.uk/qsr/vug/SVUG-01/position/kemp_mostern_final.pdf.

Reports, Reviews, and Encyclopedia Entries

Don't Just Build It, They Probably Won't Come, *Edinburgh University Press Blog* (September 27, 2016), <https://eupublishingblog.com/2016/09/27/dont-just-build-it/>.

Review of Joseph R. Dennis, *Writing, Publishing and Reading Local Gazetteers in Imperial China, 1100-1700*, *Journal of Song-Yuan Studies*, Forthcoming 2017.

Review of David Pietz, *The Yellow River: The Problem of Water in Modern China*, *American Historical Review*, Forthcoming 2016.

Research Report: The Data Hoover Project, *Journal of World-Historical Information*, forthcoming 2016.

Feasts and Phoenixes: Teaching China and Iran, *AHA Perspectives*, 53.8 (November 2015), 30-31 (with Sholeh Quinn).

Review of Valerie Hansen, *The Silk Road: A New History*, *The Historian* 76.4 (Winter 2014), 844-845.

Collaborative for Historical Information and Analysis: Vision and Work Plan, *Journal of World Historical Information* 1.1 (Spring 2013) (with Vladimir Zadorozhny, Patrick Manning and Daniel Bain).

Review of John Herman, *Amid the Clouds and Mist: China's Colonization of Guizhou, 1200-1700*, *Journal of Song-Yuan Studies* 39 (2009), 246-251.

The Digital Gazetteer of Song Dynasty China, Version 1.0, *Journal of Song-Yuan Studies* 39 (2009), 277-278.

The Dujiangyan Irrigation System (653-655) and Water Conservancy in Imperial China (2419-2425), *Berkshire Encyclopedia of China* (2009).

Review of Naomi Standen, *Unbounded Loyalty: Frontier Crossings in Liao China*, *Journal of Asian Studies* 67.1 (Winter 2008), 286.

The Electronic Cultural Atlas Initiative, *Historical Geography* (2005), 152-154.

The Electronic Cultural Atlas Initiative at the Enter the Past Conference, Vienna, April 2003, *Proceedings of the Enter the Past Conference* (2004), 569-571 (with Paul Ell).

The Virtual Silk Road Atlas: Exploring Culture in Time and Place, *The Silk Road Project: Arts and Humanities Events at UC Berkeley* (Berkeley: Cal Performances, 2003), 69-73.

RESEARCH FUNDING

Investigator: Extramural

- 2015-16, Grasping Water: Rivers and Human Systems in China, Africa and North America, First Summer Institute in Chinese Studies and Global Humanities, Chiang Ching-kuo Foundation and Consortium of Humanities Centers and Institutes, Co-Organizer (with Ann Waltner), \$50,000.
- 2014-15, World Historical Gazetteer, National Endowment for the Humanities Digital Humanities Level I Start-Up Grant, Co-Project Director (Patrick Manning, University of Pittsburgh, Principal Investigator), \$28,350.
- 2013-2015, Collaborative Research: Center for Historical Information and Analysis, National Science Foundation (Award Number BCS-1244282), \$110,381, Principal Investigator (The total grant for this project is \$601,652, shared among Principal Investigators Gary King (Harvard University), John Gerring (Boston University), Patrick Manning (University of Pittsburgh) and Siddarth Chandra (Michigan State University)).
- 2010, The Silk Road: Active Learning and Evaluation in Digital History, Sub-award from the UC Merced Center for Teaching and Research Excellence Guidebook Project, Funded by the Fund for the Improvement of Post-Secondary Education (FIPSE), \$10,000, Principal Investigator.
- 2007, *Alphabetical List of Geographical Names in Song China* digital edition, Society for Song-Yuan Studies, \$2,000, Principal Investigator.
- 2007-11, Rethinking Timelines: A New Methodology for Describing and Communicating History, Australia Research Council, \$300,000. Co-Principal Investigator (Ian Johnson, University of Sydney, PI).
- 2006-8, Bringing Lives to Light: Biography in Context, Institute of Museum and Library Services, \$300,000. Co-Investigator (Ray Larson, UC Berkeley, PI).
- 2006, Interactive Timeline Builder for Historical Study, Hewlett Foundation, \$30,000, Principal Investigator.
- 2005, Migration, Diaspora, and Movement through Space: Methodologies for Spatial Studies in the Humanities and Related Fields Seminar Series, UC Humanities Research Institute, \$5,000, Principal Investigator.

Investigator: UC Merced

- 2016-7, Water and the Humanities Working Group Grant, and Water: The Common Thread is History Conference Development Grant, \$7,000 total, Center for the Humanities.
- 2013, Yellow River Historical Map Digitization, \$2,000, Center for the Humanities.
- 2011, The State of the River: Conference and Research Trip to China, Graduate and Research Council, \$4,959 and Center for Research on Humanities and Arts, \$2,000.
- 2010, Modeling the Environmental History of the Yellow River: Three Millennia of Disaster, Settlement, and Policy, Graduate and Research Council, \$3,000.
- 2009, GPS Equipment for Spatial Analysis and Data Processing in World Heritage, Graduate and Research Council, \$9,000, Co-Principal Investigator (with Maurizio Forte).

- 2009, Visualizing *Dividing the Realm*: Illustrating a Spatial History Monograph with Maps, Center for Research in the Humanities and Arts, \$2,500.
- 2008, The Market Geography of Song Dynasty China (960-1276 CE), Graduate and Research Council, \$3,000.
- 2007, The Qinling Frontier and the Construction of Imperial Identity in Western China, Travel Grant, University of California, Merced Graduate and Research Council, \$2,095.
- 2007, Mapping Medieval China, University of California, Merced Humanities Fund Grant, \$2,000.
- 2006, Animating the Tang-Song Transition: Mapping China, 618-1276 CE, University of California, Merced Graduate and Research Council, \$2,500. Principal Investigator.

REVIEWING AND CONSULTING

Grant and Fellowship Review: Extramural

- 2016, American Council of Learned Societies
- 2014, 2011 and 2007, National Endowment for the Humanities (NEH) Digital Humanities Fellowship Review Panel Member
- 2011, Agence Nationale de la Recherche (France) referee
- 2010, National Science Foundation Geography and Spatial Sciences referee
- 2009, National Endowment for the Humanities (NEH) Fellowships at Digital Humanities Centers, Review Panel Member
- 2005-2011, Pacific Rim Research Program Grant Competition, Reviewer and Board Member

Conference and Publication Review

- 2016, *Nature + Culture*, Stanford University Press, Blackwell Wiley, Cambridge University Press, *Journal of Asian Studies*
- 2015, Wiley Blackwell, *Journal of Interdisciplinary History*, *Harvard Journal of Asiatic Studies*
- 2014, Oxford University Press, *Literary and Linguistic Computing*, *International Journal of Humanities and Arts Computing*, *Digital Humanities Quarterly*, *Historical Methods*, *Harvard Journal of Asiatic Studies*
- 2013, Oxford University Press, Harvard University Press
- 2012, Digital Humanities Conference, *International Journal of Geographic Information Science*, *Journal of Historical Geography*, *Journal of World Systems Research*
- 2011, *Transactions in GIS*, Digital Humanities Conference
- 2005-2011, *International Journal of Geographic Information Science*, *Digital Humanities Quarterly*, *Structure and Dynamics: eJournal of Anthropological and Related Sciences*, *International Journal of Applied Geospatial Research*, *Transactions of the Institute of British Geographers*, *Applied*

Geography, Routledge Press, MIT Press, *Journal of Song-Yuan Studies*, Computer Applications in Archaeology (CAA) Conference and Proceedings

Promotion and Tenure Review

2015, Missouri State University

2015, Mills College

Consulting and Contract Work

2016, Norton Digital Media, Paid Author for development of “Norton StoryMaps 2.0”

2013, Cengage, Paid Consultant, History Technology Advisory Board

2013, Norton Digital Media, Paid Author for development of “Norton StoryMaps for European and World History”

2011, *National Geographic Magazine*, Paid Consultant for Grand Canal map and timeline design.

2011, Pearson Education Inc., Paid Consultant for historical digital mapping initiative

2006, Forté Communications, Grand Canal Television Documentary, Consultant

BOARD AND COMMITTEE MEMBERSHIPS

2016-present, Pelagios Commons Steering Committee and East Asian Special Interest Group Director

2016-present, Editorial Board, Arc Medieval Press: An Imprint of Amsterdam University Press and Medieval Institute Publications

2015-present, Society of Song-Yuan Studies Steering Committee

2014-2017, UC Humanities Network, UC Merced Representative

2012-present, Chinese History Dissertation Reviews Advisory Board

2011-present, *Journal of World-Historical Information*, co-editor

2011-present, Collaborative on World-Historical Information and Analysis, Executive Committee Member

2010-present, University of California Education Abroad Program, Faculty Advisory Committee on China, Taiwan and Hong Kong, Committee Member

2009-2014, America on the World Stage, US Department of Education Teaching American History Program, University of Virginia, Advisory Board Member

2009-2011, World Historical Dataverse, University of Pittsburgh, Advisory Board Member (continues as Collaborative on World-Historical Information and Analysis)

2007-8, University of California Steering Committee for the “10+10” systemwide China initiative

2006-present, *International Journal of Humanities and Arts Computing*, Editorial Board Member

2006-2008, Pleiades: An Online Workspace for Ancient Geography, Steering Committee Member
2005-2006, UC Humanities Research Institute Humanities, Arts and Social Sciences (HASS) Technology Council
2002-2004, Social Science History Association, Historical Geography Network, Co-Chair
2001-2005, Electronic Cultural Atlas Initiative executive committee member

CONFERENCE ORGANIZING

Co-Organizer, Water: The Bridge is History, Merced and Yosemite, October 13-16, 2016.
Co-Organizer, Grasping Water: Rivers and Human Systems in China, Africa and North America, University of Minnesota, June 13-17, 2016.
Co-Organizer, World Historical Gazetteer Planning Workshop, University of Pittsburgh, September 4-5, 2014.
Organizer, The Spatial Turn in East Asian Studies: The Legacy of G. William Skinner, two roundtable panels sponsored by the China and Inner Asia Council, Association of Asian Studies, Philadelphia, March 2010.
Organizer, Ditch-Diggers, Steel-Drivers and the CIA: Border Crossing Perspectives on Asian Environmental History, Association of Asian Studies, Chicago, March 2009
Co-Organizer, Finding the White Mice: There's More to Spatio-Temporal GIS than What, Where and When. Two paper sessions and moderate discussion. Computer Applications in Archaeology, Williamsburg, CA, March, 2009 (with Ian Johnson)
Organizer, Visualizing the Past: From Database to Map to Virtual World. Workshop, University of California, Merced, March 2009
Organizer and Chair, Roundtable Panel: Modeling and Visualizing Historical Narrative, Digital Humanities 2007, University of Illinois Champaign-Urbana, June 2007
Organizing Committee, Conference and Community Forums: Cultural Research in the Twenty-First Century: Designing the UC Merced World Cultures Institute, Spring 2005 (rescheduled for Summer-Fall 2008)
Co-Chair, Historical Geography Network, Social Science History Association, 2003-2004
Organizer, Digital Gazetteer Development Working Group Meetings, Electronic Cultural Atlas Initiative: London, UK, June 2000; Hong Kong, January 2001; Sydney, Australia, June 2001; Taipei, Taiwan, August 2001; Guadalajara, Mexico, December 2001; Berkeley, CA, May 2002; Seoul, Korea, May 2002; Taipei, Taiwan, May 2002; Shimane, Japan, September 2002; Berkeley, California, May 2004
Organizing Committee, Electronic Cultural Atlas Initiative Bi-Annual Conferences: Hong Kong, 2001; Sydney, Australia, 2001; Guadalajara, Mexico, 2001; Seoul, Korea, 2002; Osaka, Japan, 2002; Vienna, Austria, 2003; Bangkok, Thailand, 2003; Taipei, Taiwan, 2004
Organizing Committee, International Workshop on Historical GIS, Fudan University Institute of Historical Geography, August 2001

Co-Organizer, Religion, Culture and Society in Medieval China: Conference in Honor of David Johnson's Sixtieth Birthday, UC Berkeley Center for Chinese Studies, August 1998

Panel Organizer, Space, Place and Landscape in Song China, Association of Asian Studies, Washington, DC, March 1998

Co-Organizer, Third Annual Conference for Chinese History Graduate Students in California, UC Berkeley Center for Chinese Studies, March 1995

TALKS AND PANELS

Invited Talks

Engineering Empire: The Theory and Practice of Yellow River Flood Management in Late Imperial China, UC Merced Seminar in the Humanities, August 26, 2016.

Placing Names and Tracing Paths: Toward a Digital Ecosystem of Silk Road Travel (丝绸之路的历史地名数据库), International Conference of the Silk Roads in Ancient Maps, Fudan University, August 16, 2016.

Loess is More: Mapping Erosion on the Loess Plateau During the Northern Song, Water Resources Workshop at the Resourceful Things Symposium, Harvard-Yenching Institute, Harvard University, April 20, 2016.

Loess is More: Arid Asia and the Yellow River Disaster Regime, China Colloquium Series, Council on East Asian Studies at Yale University, March 7, 2016. Also presented at Empires of Water: Water Management and Politics in the Arid Regions of China, Central Eurasia and the Middle East, Lingnan University (Hong Kong), May 2016, and at Water, Culture and Society in Global Historical Perspective: Water, Power and Control in Greater Eurasian History, The Ohio State University, May 2016.

From Historical GIS Research to a Digital Cultural Atlas Ecology, University of Pittsburgh Department of History, March 3, 2016

Traveling the Silk Road on a Virtual Globe, Merced-Mariposa American Association of University Women, Mariposa, CA, February 16, 2016

Land Use Change, Erosion, and Air and Water Quality in North China: A Two Thousand Year Perspective, UC Merced Air Pollution Seminar, October 12, 2015

What Does Long Term Ecosystem Engineering Look Like? UC Merced Science Café, September 21, 2015

Following the Tracks of Yu: The Eleventh Century Origin of the Yellow River Disaster Regime, UC Merced Seminar in the Humanities, September 17, 2015

An Ecosystem of Places: Gazetteers, Linked Pasts Colloquium, King's College London, July 20, 2015

Loess is More: Mapping Environmental Degradation in Imperial China, Symposium on Virtual Reality and Visualization for Interdisciplinary Research, UC Merced, April 9, 2015

Discussant, Dodging Extinction, Merced Theatre, April 14, 2015

Loess is More: The Eleventh Century Origins of the Yellow River Disaster Regime, Environment in Asia Workshop, “Water and Land: Changing Landscapes in China,” Harvard University, March 23-24, 2015

The Yellow River as an Earth System and a World System in Medieval and Early Modern Asia, University of Pittsburgh History Department Colloquium, March 20, 2015

The Yellow River and the Northern Frontier: Spatial Analysis and Big Data for Environmental History, Workshop on Historical Big Data and a Scholarship of Discovery, Hong Kong University of Science and Technology, Jun 9, 2014.

Reading the *Song-Yuan Difangzhi Congshu* 宋元地方志叢書 at a Distance: The Affordances of the Large Scale, Luce/ACLS Collaborative Reading Workshop, “Reading, Information and Quantification in Traditional China,” UCLA, May 30, 2014.

Big History and Big Data: The Rise of the Large Scale and the Future of the Humanities, Nebraska Forum on Digital Humanities, April 10, 2014.

Big History and Big Data: Affordances of the Large Scale in Digital Environmental and World History, American Studies Seminar, UC Davis, November 19, 2013.

Student Authored Digital Atlases and Digital Humanities Genres, University of Pennsylvania Digital Humanities Forum, March 29, 2013.

Big Data and Spatial Analysis for Big History, UC Berkeley D-Lab, March 5, 2013.

The “Silk” “Road”: Another Transportation Network and Some Thoughts about Pedagogy, Stanford University ORBIS Workshop, February 16, 2013.

An Information System for Large Scale Spatial History: Three Thousand Years of Settlement, Sediment and State on China’s Yellow River, Stanford University Center for Spatial and Textual Analysis, August 16, 2012.

历史地理信息系统研究: 以黄河流域为例 *Lishi dili xinxi xitong yanjiu: Yi Huanghe liuyu wei li* [Research in Historical GIS: The Example of the Yellow River], Chinese Academy of Sciences, Institute of Geography and Natural Resources, Beijing, China, April 27, 2012.

黄河大历史: 三千年来中华帝国的环境与水利 *Huanghe da lishi: sanqiannianlai Zhonghua diguo de huanjing yu shuili* [The Big History of the Yellow River: Environment and Water Conservancy in the Chinese Empire during the Past Three Thousand Years], Fudan University Historical Geography Institute, Shanghai, China, April 17, 2012.

The History of the Yellow River: Empire, Engineering and Environment, 453 BCE - 1855 CE, Washington University, St. Louis, Anthropology Colloquium, February 8, 2012 and Stanford University Spatial History Lab Tech Talk Series, March 1, 2012.

美国的中国历史研究: 近十年走势 *Meiguo de zhongguo lishi yanjiu: jinshinian zoushi* [American Research in Chinese History: Trends in Recent Decades], Zhengzhou University, Zhengzhou, Henan, China, July 12, 2011.

What Belongs in a Gazetteer? Association of American Geographies Temporal Gazetteer Workshop, Seattle, April 13, 2011

Modeling Place: Names, Events, Texts, and the Future of the Digital Gazetteer, Mapping Place: GIS and the Spatial Humanities, University of California Santa Barbara Humanities Center, February 25-26, 2011

Spatial Literacy in the History Classroom: Teaching the Silk Road with Google Earth, ThinkSpatial Lecture Series, University of California Santa Barbara Department of Geography, February 24, 2011

Text and Gazetteers, Dataverse Workshop, University of Pittsburgh, February 23, 2011

Teaching Silk Road History with Google Earth, Google Corporation, Mountain View, CA, June 17, 2010 and Stanford University GIS Special Interest Group, June 18, 2010.

Engineering Empire: The Two Thousand Year History of Dujiangyan, the World's Oldest Working Dam, So-Koo Lecture Series, Michigan State University, February 17, 2010

Mapping the Past: New Insights from Spatial History, with Examples from China and the Silk Road, Dataverse Design Seminar, University of Pittsburgh, April 9, 2009

Rethinking Timelines: Modeling Historical Narrative in Time and Space, New Directions in Digital Humanities Scholarship, sponsored by the Council on Library and Information Resources, University of Illinois, Urbana-Champaign, February 26, 2009

Eventful History, HumanITech Workshop, Event Webs: Constructs, Connections, Causalities, University of California, Irvine, May 9, 2008

Presidential Plenary Address, at California Geographical Society Annual Meeting, California State University, Chico, May 2-4, 2008

Following the Tracks of Yu: Doing Political History with Historical GIS, Chinese History 200, Spatial and Prosopographical Analysis of China's History, Harvard University, April 21, 2008

From Geographical Information Systems to Historical Information Systems: Modeling the Past in the Digital Age, University of California Capital Planning Annual Meeting, November 2, 2007, and GIS Day, California State University Stanislaus, November 14, 2007

Visualizing History: An Event Based Approach to Modeling Time and Space for the Humanities, Human-Computer Interaction Lab, University of Maryland, College Park, July 19, 2007

The Qinling Frontier and the Construction of Empire in China: Three Examples from Early and Middle Period History, International Symposium on Historical Research on Plank Roads and Applications of 3S Technology, Hanzhong, Shaanxi, China, May 16-18, 2007

Humanities GIS: Approaches and Exemplars, Stanford University Humanities Center, April 18, 2007

Modeling Historical Phenomena in Space, NCSA/CHASS Workshop on Spatial Thinking in the Social Sciences and Humanities, University of Illinois Urbana-Champaign, December 18-19, 2006

Gazetteer Interoperability, Digital Gazetteer Research and Practice Workshop, National Center for Geographic Information and Analysis, University of California, Santa Barbara, December 7-9, 2006

Visualizing Historical Events through Interactive Timelines, Graphical Reasoning and Educational Visualization Seminar, University of Sydney, August 2006, and UC Berkeley School of Information Seminar Series, September 2006

The Chinese Cartographic Tradition, Department of Chinese, University of New South Wales, August 2006
Territory and State Power in Early Modern China, University of Melbourne Department of History, August 2006 and University of California, Davis, November 2006
Iraq to China: Traveling the Silk Road with Historical GIS, Ohio State University Humanities Institute, April 2005
A Digital Journey Along the Silk Road: GIS, New Media and the World Cultures Curriculum, Merced, CA, March 2004

Conference Presentations

Loess is More: War, Erosion and Development in the Yellow River Watershed, circa 700-1300 CE, Association of American Geographers, San Francisco, March 2016
Are We Still Reinventing the Wheel? Toward Successful Data Repository Design for Social Science History, Social Science History Association, Baltimore, November 2015 (with Marieka Arksey)
Mapping the Tracks of Yu: Yellow River Statecraft as Science and Technology, 1200-1600, Found in Translation: World History of Science 1200-1600, University of Pittsburgh, October 11, 2015
Loess is More: The Eleventh Century Origins of the Yellow River Disaster Regime, Association of Asian Studies, Chicago, March 2015
The Yellow River and the Northern Frontier: A Middle Period Environmental History, East Asian Environmental History, Hualian, Taiwan, October 2013
The Yellow River in Big Historical Perspective: A New Assessment of Disaster Data, Disasters Wet and Dry: Rivers, Floods and Droughts in World History, Beijing, May 2013.
The Yellow River and the Northern Frontier: A Middle Period Environmental History, Association of Asian Studies, San Diego, CA, March 23, 2013
The Collaborative for Historical Information and Analysis: Collaborative Research Ecology for World History, Pacific Neighborhood Consortium, Berkeley, CA, December 8, 2012
Empire and Engineering in North China: A Digital Atlas of Environmental History, Pacific Neighborhood Consortium, Berkeley, CA, December 7, 2012
Describing and Evaluating Scholarly Historical Datasets, World History Association, Albuquerque, NM, June 30, 2012
Environmental and Imperial Geography Along the Yellow River, Association of Asian Studies, Toronto, Canada, March 17, 2012
Discussant: Geographical Frameworks for World History, Social Science History Association, Boston, MA, November 17, 2011
The State of the River: Engineering and Empire Along the Yellow River Watershed, World History Association, Beijing, July 2011

Roundtable Participant: Modeling Event Based Historical Narratives, Digital Humanities, Stanford University, June 2011

Integrating Gazetteer Data and Historical Event Models, Association of American Geographers, Washington, DC, April 2010

Roundtable Participant: Modeling Agency and Action in Historical GIS, Social Science History Association, Long Beach, CA, November 2009

The Spatial Organization of State Power in Imperial China, Pacific Neighborhood Consortium, Academia Sinica, Taiwan, October 2009

Engineering Empire: The Dujiangyan Waterworks and the Persistence of Water Management in West China, Association of Asian Studies, Chicago, IL, March 2009

Roundtable Participant: The “California Method”?: The University of California’s Model of World Historical Research and Pedagogy—Past, Present and Future, American Historical Association, New York, NY, January 2009

The Politics of Territory in Song Dynasty China, Historical GIS 2008, University of Essex, UK, August 2008

In the Tracks of Yu: Doing Political History with Historical GIS. Association of American Geographers, Boston, MA, April 2008

Following the Tracks of Yu: Discourses of Imperial Territory in Song China, Empire and Culture Conference, California State University, Stanislaus, March 2008

A Song Dynasty Historical Gazetteer: Data Modeling for Spatial History Research, Pacific Neighborhood Consortium and Electronic Cultural Atlas Initiative, Berkeley, CA, October 18-20 2007 (with Elijah Meeks)

From Named Place to Naming Event: Toward a New Methodology for Cultural Atlas Development, Pacific Neighborhood Consortium and Electronic Cultural Atlas Initiative, Berkeley, CA, October 18-20 2007

Territory and State Power: Theories and Models, Geography and the Humanities Symposium, Charlottesville, Virginia, June 22-24, 2007

A Spatially Informed Introduction to World History Course, American Historical Association Annual Meeting, Atlanta, Georgia, January 4-7, 2007

Digital Gazetteers and Temporal Directories for Digital Atlases. Association of Digital Humanities Organizations, Paris, France, July 2006

What is a Cultural Atlas? Computer Applications in Archaeology, Fargo, ND, April 2006.

Dividing the Realm in Order to Govern: Political Geography and State Power in the Tang-Song Transition, Association of Asian Studies, San Francisco, CA, April 2006

Roundtable Participant, GIS and History: Aggregating Data, Connecting Places, and Analyzing Processes, American Historical Association, Philadelphia, PA, January 2006

Designing Gazetteers for Frequently Changing Places: Examples from Chinese History, Social Science History Association, Portland, OR, October 2005

Summit Meeting Participant, Summit on Digital Tools for the Humanities, University of Virginia, September 2005

Designing Gazetteers for Frequently Changing Places: Examples from Chinese History, Cultural Atlas Congress, Fudan University, Shanghai, China, May 2005

Data Development, Historical Gazetteers, and the Religious Atlas of China and the Himalayas: The *Foguang Encyclopedia* and other Sources, Association of American Geographers, Denver, CO, April 2005

The Religious Atlas of China and the Himalayas: Content, Architecture and Data Management, Social Science History Association, Chicago, IL, November 2004

The Religious Atlas of China and the Himalayas: Digital Gazetteer Design for Cultural Atlas Development, Pacific Neighborhood Consortium, Taipei, Taiwan, October 2004

Collaborative, Gazetteer-Based Approaches to the Religious Atlas of China and the Himalayas Project, Berkeley, CA, May 2004 (with Susan Stone)

Japan's Cultural Heritage On-line: A Japanese Historical Map Library at UC Berkeley: Association of Asian Studies, San Diego, CA, March 2004

Content, Research and Publishing in ECAI: New Models for Digital Scholarship and Heritage Preservation, Computer Applications in Archaeology, Vienna, Austria, April 2003

Cartography on the Song Frontier: Making and Using Maps in the Song-Xia Conflict, Evidence from *Changbian* and *Song huiyao*, Third International Symposium on Ancient Chinese Books and Records of Science and Technology, Tuebingen, Germany, March 2003

ECAI/TimeMap Metadata: There's More to Metadata than Finding Things, Social Science History Association, St. Louis, MO, November 2002 (with Ian Johnson)

Panel Chair, Metadata for Time and Space: Geography and the Data Documentation Initiative, Social Science History Association, St. Louis, MO, November 2002

Scholarly and Technical Standards for Map Based Digital Works, Pacific Neighborhood Consortium, Osaka, Japan, September 2002 (with Jeanette Zerneke)

Digital Gazetteer Standards for History and Culture, Workshop: Digital Gazetteers: Integration into Distributed Digital Library Services, at Joint Conference on Digital Libraries, Portland, OR, July 2002 (and Pacific Neighborhood Consortium, Osaka, Japan, September 2002)

The ECAI Silk Road Atlas, Global Networking of Digital Cultural Heritage, Seoul, Korea, May 2002 (also Pacific Neighborhood Consortium Joint Meeting, Osaka, Japan, September 2002)

'Provisionally Abolish the Counties': Geography, War and State Power in Twelfth Century Huainan, American Historical Association, San Francisco, CA, January 2002

Who Has Data, Who Has Texts? Methodological Implications for Historical GIS, Social Science History Association, Chicago, IL, November 2001

Digital Gazetteer Development, International Workshop on Historical GIS, Shanghai, China, August 2001

The Electronic Cultural Atlas Initiative, World History Association, Salt Lake City, UT, June 2001

- The Sasanian Empire in GIS: An ECAI Exemplar Project, Electronic Cultural Atlas Initiative, London, June 2000 (with Jeanette Zerneke)
- Workshop Participant, Mapping Europe's Historical Boundaries and Borders, Florence, Italy, June 2000
- Mapping as Practice: Representations of Cartography in the Song Textual Record, Association of Asian Studies, San Diego, CA, March 2000
- Political Territory in Imperial China: How to Map State Power, Electronic Cultural Atlas Initiative/Pacific Neighborhood Consortium, Berkeley, CA, January 2000; also UC Berkeley Department of Geography Tea Talk, March 2000
- Discussant and roundtable participant, Spatial Identities in Asian History, University of Colorado, Boulder, CO, June 1999
- Mapping Authority: Politics, Territory and Frontier Administration in Early Song Guangxi, Association of Asian Studies, Boston, MA, March 1999
- 'Using the Prefectures to Govern the People': The Politics of Territory in Song China, Association of Asian Studies, Washington, DC, March 1998
- Songdai diyu yu xingzheng dili zhidu [Territory and the Administrative Geographical System of Song China], Taiwan University History Graduate Colloquium, Taipei, Taiwan, July 1997
- Cartography and the Representation of Territory in Song China: Alumni Lecture Series, Inter-University Program for Chinese Language Studies in Taipei, Taipei, Taiwan, May 1997
- The Cadastral Survey of 1142: Property Mapping and State Activism in Early Southern Song China, Landscape, Culture and Power: Center for Chinese Studies Annual Symposium, UC Berkeley, Berkeley, CA, March 1996
- From Atlas to Scenic Guide: Changing Discourses of Place in China, 800-1250, Graduate Student Colloquium, Center for Chinese Studies, UC Berkeley, Berkeley, CA, March 1994

MEDIA COVERAGE

- Runner Up, Writing Category, Second Annual Academia Obscura Academics With Cats Awards, Fall 2015 <http://www.academiaobscura.com/academics-with-cats-awards-2015-winners/>
- "UC Merced Connect: Professor Uses 'Big Data' to Study History," *Merced Sun-Star* and *Sacramento Bee*, January 15, 2013
<http://www.mercedsunstar.com/2013/01/15/2759851/uc-merced-connect-professor-uses.html>
- "UC Merced Connect: Problems of the Past are Familiar," *Merced Sun-Star* and *Sacramento Bee*, December 14, 2011 <http://www.mercedsunstar.com/2011/12/13/2156053/uc-merced-connect-problems-of.html#storylink=misearch>,

- <http://www.sacbee.com/2011/12/13/4121277/uc-merced-connect-problems-of.html>
- “Digital Tools to Better Understand the Past,” *UC Merced Impact* (July 20, 2011)
<http://www.youtube.com/watch?v=DLxT8MQPbKo>.
- “Ancient Chinese Government Lends Perspective to Modern Challenges,” *UC Merced Panorama* 7.7 (May 2011) and Website News Item (November 2011)
<http://www.ucmerced.edu/news/ancient-chinese-government-lends-perspective-modern-challenges>
- “Database Project Leads Stanford to Hire UC Merced Graduate Student,” University of California, Merced website feature, December 11, 2009.
- “2008 Presidential Plenary,” *California Geographical Society Bulletin* 62.1 (Spring 2008), p. 5
- “Mostern’s Fellowship will Result in Manuscript,” *UC Merced Panorama* 3.7 (May 2007)
- “UC Merced Professor Takes China to Heart,” *UC Merced Spotlight*, October 23, 2006
- “History, Technology Meet in Classroom,” Adam Ashton, *Merced Sun-Star*, June 27, 2005
- “Professor Creates the Big Picture—Literally—of Historical Geography,” *UC Merced Panorama* 1.1 (November 2004). Reprinted as University of California, Merced website feature, January 2005.

TEACHING

Workshop Instruction

- Project Development in Spatial History, University of Pittsburgh Library, March 4, 2016
- Digital Literacy: Perspectives from Historical Geography, Washington University, St. Louis, February 7, 2012
- Scholarship of Teaching and Learning, UC Merced Center for Teaching and Research Excellence Teaching Matters Series, November 2010
- Co-Organizer and Instructor, Electronic Cultural Atlas Initiative Training Institutes and Data Management Clinics: Istanbul, Turkey, June 2000; Tblisi, Republic of Georgia, June 2000; Berkeley, CA, September 2001; Indianapolis, IN, November 2001; Berkeley, CA, June 2003

Courses Offered, UC Merced

- Capstone for History Majors (HIST191)
- China in World History (graduate seminar) (WC245)
- Chinese History from Earliest Times to the Mongol Conquest (HIST80)
- Chinese History from the Mongol Conquest to the Present (HIST81)
- Environmental History of the World (HIST118)
- From Tang to Song: China in the Medieval World (HIST165B)
- History of China and Iran (co-taught course with Sholeh Quinn) (HIST108/WC245)

History of Maps and Mapmaking (HIST109)
Introduction to the Digital Humanities (graduate seminar) (WC230)
The Silk Road (HIST108)
Study Plan Design (graduate seminar) (IH202)
Theories and Methods in World Cultures (graduate seminar) (WC202)
Time, Space and Theme (graduate seminar) (WC201)
Toward a Less Human Centered Humanities (IH201)
World History to 1450 (HIST10)
World History 1450-present (HIST11)

Graduate Advisees (UC Merced World Cultures/Interdisciplinary Humanities unless specified)

Chair: Rocco Bowman (M.A.) from 2015, Edward Lanfranco (M.A.) from 2012, Kaiqi Hua (Ph.D.) 2008-2016, Letha Goger (M.A.) 2007-2009, Elijah Meeks (Ph.D.) 2005-2010.

Member: Paul Doherty (Ph.D.) UC Merced Environmental Engineering 2011-2013, Elana Gainor (Ph.D.) 2009-2016, Marsha Bond (M.A.) CSU Stanislaus Geography 2008-2013, Trevor Albertson (Ph.D.) 2007-2009, Karl Grossner (Ph.D.) UC Santa Barbara Geography 2006-2010.

UC MERCED UNIVERSITY SERVICE

UC Merced Faculty Senate

2013-14, Committee on Research (COR) Founding Chair
2013-14, Divisional Council (DivCo), Member
2012-13, Graduate and Research Council (GRC) Vice Chair
2012-13, Committee on Academic Planning and Resource Allocation (CAPRA) Member
2012-13, SSHA Executive Committee, History and World Cultures Representative
2010-11, Committee on Rules and Elections (CRE) Vice Chair
2008-10, Committee on Committees (CoC) Elected Member and Vice Chair
2004-5, Committee on Rules and Elections (CRE) Member

Other UC Merced Service

2016, Sustainability Curriculum Planning Committee (by appointment of the Center for Research on Teaching Excellence)
2015-2017, Sustainability Strategic Pillar Steering Committee (by appointment of the Sustainability Strategic Pillar *ad hoc* task force)
2014-2017, Faculty Advisor to Undergraduate Historical Society and *History Undergraduate Journal* (https://escholarship.org/uc/sshah_uhj)

2013-14, Senate-Administration Library Working Group Co-Chair (by appointment of the Senate Division Council Chair)
2012, *Ad hoc* Hellman Award Reviewer (by appointment of the Provost)
2010-2011 and 2012-2014, Center for Research in Humanities and Arts Steering Committee Member (by appointment of the Center Chair) (Continues as Center for the Humanities after 2012)
2010-2012, World Cultures and History Department Executive Committee Member (by appointment of the Department Chair)
2010, *Ad hoc* Faculty Academic Computing Task Force Member (by appointment of the SSHA Dean)
2009-2011, World Cultures Graduate Group Executive Committee (by election of the graduate group membership)
2005-6, World Cultures Institute Interim Associate Director (by appointment of the Provost)

UC Systemwide Service

2013-14, UC Merced representative to University Committee on Research and Policy (UCORP)
2013-14, UC Merced representative to University Committee on Library and Scholarly Communication (UCOLASC)

UC Merced Hiring and Promotion Committees

2013-15, University Librarian Hiring Committee
2013-14, World Heritage Hiring Committee Chair
2012-13, Global Arts Studies Hiring Committee
2010-11, Tenure Review Committee
2007-8, History Hiring Committee
2006-7, World Heritage Hiring Committee
2006-7, History Hiring Committee
2005-6, History Hiring Committee
2005-6, Social Science Hiring Committee
2005-6, Humanities Hiring Committee
2005-6, Arts Hiring Committee
2005-6, Presidential Postdoctoral Fellows Hiring Committee
2005, World Cultures Institute Director Hiring Committee
2004-5, History and Literature Hiring Committee

LANGUAGES

Mandarin Chinese: advanced reading, writing and speaking
Classical Chinese: advanced reading
Japanese: intermediate reading, beginner speaking
French: beginner reading
Russian: beginner reading

MEMBERSHIP IN ACADEMIC SOCIETIES

American Historical Association
Association of American Geographers
Association of Asian Studies
Association for Computers and the Humanities
Electronic Cultural Atlas Initiative
Social Science History Association