

I am a historian of science and of modern East Asia. My research and teaching have focused primarily on three related areas – history of environmental sciences, modern China, and science and empire. I am the author of *British Naturalists in Qing China: Science, Empire, and Cultural Encounter* (2004; Chinese translation 2011) and dozens of articles on a range of topics in history and in science studies. I am currently completing two books, one on earthquakes in communist China and the other on science and politics in republican China. I have enjoyed experimenting with new topics, perspectives, and approaches and have published in interdisciplinary journals, such as *Cultural Sociology* and *East Asian Science, Technology, and Society*. Even when I examine contemporary issues, such as citizen science and civic technology, I situate them in a historical perspective and context. I am also interested in historiographical and methodological issues and have written about such topics as global history of science and Asia as method. I love teaching. I regularly offer a variety of courses on history of modern science and technology, Asian history, and thematic courses such as natural disasters and society. I also enjoy working with graduate students and have advised a number of Ph.D.'s who went on to have thriving academic careers. I have also done quite a bit of professional service. I have served on more than a dozen editorial boards of journals and book series and on many committees of professional organizations. In addition, I have given more than 200 invited lectures, keynotes, and conference presentations at universities and professional meetings.

Selected Publications:

Books:

British Naturalists in Qing China: Science, Empire, and Cultural Encounter (Harvard University Press, 2004). Chinese Translation (2010; new edition with a new title, 2018).

Co-author with Shellen Wu, *Science and the Making of Modern China* (under contract with Cambridge University Press).

The People's War against Earthquakes: Science, Politics, and Natural Disasters in Communist China (in progress).

Editor of Special Issue:

I am currently editing/co-editing two special issues of academic journals: “Animals and Epidemics in Modern East Asia,” to be submitted to the *International Review of Environmental History* and, with Zuoyue Wang, “Meteorology in Modern East Asia,” to be submitted to *History of Science*, both in 2021.

Co-editor, with Shun-ling Chen, special issue, “Citizen Science: Problems and Practices,” of *East Asian Science, Technology and Society* 13:2 (2019).

***Journal Articles, Book Chapters, and Essays* (select list of articles in English):**

Co-author, with Zuoyue Wang, “Meteorology in Modern East Asia: Science, Politics, and Region,” introductory essay to the special issue, “Meteorology in Modern East Asia.”

Co-author, with Chieh-Ju Wu, "Dangerous Bites: Snakes, Environmental Encounter, and Biomedicine in Colonial Taiwan," for the special issue on animals and epidemics, *International Review of Environmental History*.

"Mr. Science, May Fourth, and the Global History of Science," for a special issue ed. by Victor Seow and Sean Hsiang-lin Lei on "'Mr. Science' and Modern China," *East Asian Science, Technology, and Society* (under review).

Co-author, with Shellen Wu, "Science in Modern China," *Modern Science in National, Transnational, and Global Context*, ed. Hugh Slotten, Ronald Numbers, and David Livingstone, Cambridge History of Science, vol. 8 (Cambridge University Press, 2020), 521-554.

Co-author, with Shun-ling Chen, "Citizen, Science, and Citizen Science," in *East Asian Science, Technology, and Society*, 13.2 (2019), 181-193.

"Can Animals Predict Earthquakes?: Bio-sentinels as Seismic Sensors in Communist China and Beyond," *Studies in the History and Philosophy of Science, Part A* (2018): 58-69.

"Modernity, Region, and Technoscience: One Small Cheer for Asia as Method," *Cultural Sociology* (2016): 352-368.

Co-author, with John Matthew, "Negotiating Natural History in Transitional China and British India," *British Journal for the History of Science, Themes* (2015): 43-59.

"The People's War against Earthquakes: Cultures of Mass Science in Mao's China," *Styles and Cultures of Scientific Practice*, ed. Karine Chemla and Evelyn Fox Keller (Duke University Press, 2017), 296-325.

"The Controversy over Spontaneous Generation in Republican China: Science, Authority, and the Public," *Science and Technology in Republican China: Making It Work*, ed. Benjamin Elman and Jing Tsu (Brill, 2014), 209-244.

"Circulating Material Objects: The International Controversy over Antiquities and Fossils in Twentieth-Century China," in *The Circulation of Knowledge Between Britain, India, and China: The Early Modern World to the Twentieth Century*, ed. Bernard Lightman, Gordon McQuat, and Larry Stewart (Brill, 2013): 209-236.

"Science, State, and Citizens: Notes from Another Shore," *Science and Its Histories*, ed. Robert Kohler and Kathryn Olesko, *Osiris* 27 (2012): 227-249.

"The Global Turn in the History of Science," *East Asian Science, Technology and Society* (2012): 249-258.

"'Collective Monitoring, Collective Defense': Science, Earthquakes and Politics in Communist China," in *Science in Context* 25 (2012): 127-154.

“Science in Cultural Borderlands: Methodological Reflections on the Study of Science, European Imperialism, and Cultural Encounter,” *East Asian Science, Technology, and Society* 1: 2 (2007): 213-231.

“How Did the Chinese Become Native?: Science and the Search for National Origins in the May Fourth Era,” in Kai-wing Chow, et. al., eds., *Beyond the May Fourth Paradigm: In Search of Chinese Modernity* (Lexington Books, 2008), 183-208.

“Redrawing the Map: Science in Twentieth-Century China,” *Isis* 98 (2007), 524-538.

“Nature and Nation in Chinese Political Thought: the National Essence Circle in Early Twentieth-Century China,” *The Moral Authority of Nature*, ed. Lorraine Daston and Fernando Vidal (University of Chicago Press, 2004), 409-37.

“Science in a Chinese Entrepôt: British Naturalists and Their Chinese Associates in Old Canton.” *Osiris* 18 (2003): 60-78.

“Science and Informal Empire: Victorian Naturalists in China,” *British Journal for the History of Science* 36 (2003), 1-26.

“Hybrid Discourse and Textual Practice: Sinology and Natural History in the Nineteenth Century,” *History of Science*, 38 (2000): 25-56.

Essays and Commentaries (select list):

Co-author with Michelle Murphy, et. al., “Citizens, Politics, and Civic Technology: a Conversation with g0v and EDGI,” in *East Asian Science, Technology and Society*, 13:2 (2019), 279-297.

“Imagining Ourselves Out of Modernity and Climate Crisis,” *Journal of Asian Studies* (2016), 944-947. (Part of a symposium on Amitav Ghosh’s *The Great Derangement: Climate Change and the Unthinkable*).

“Plants, Germs, and Animals: They Want to Be in History, Too!,” *Cross-Currents: East Asian History and Culture Review*, 3 (2014), 231-244.

“Doing East Asian STS Is Like Feeling an Elephant, and That Is a Good Thing,” *East Asian Science, Technology, and Society* (2012): 487-491.

“East Asian STS: Fox or Hedgehog,” *East Asian Science, Technology, and Society* 1: 2 (2008): 243-247.

Select List of Grants, Honors, and Fellowships:

Advisory Board, “Making Modernity in East Asia: Technologies of Everyday Life, 19th

and 21th-Centuries,” a joint University of Hong Kong and Hong Kong University of Science and Technology project, supported by a HK Research Council grant, 2017-present.

Visiting Scholar, Max Planck Institute for the History of Science, January-September 2017.

Visiting Scholar, Institute of History of Natural Science, Chinese Academy of Science, Beijing, June-July, 2013.

Visiting Scholar, Institute of History of Natural Science, Chinese Academy of Sciences, Beijing, May-July, 2012.

Visiting Fellow, Institute for Advanced Study, Princeton, 2009-2010.

Research Grant, The D. Kim Foundation for the History of Science and Technology in East Asia, 2009.

Directeur d'Etudes Associé, Institut d'Etudes Avancées, Paris, Summer 2008.

Visiting Scholar, Institute of History of Natural Science, Chinese Academy of Sciences, Beijing, September-October, 2007.

Visiting Scholar, Institute of Modern History, Academia Sinica, Taiwan, 2007.

Visiting Scholar, Fondation Maison des Sciences de l'Homme and REHSEIS (CNRS and University of Paris VII), Paris, Summer 2005.

Smithsonian Institution Postdoctoral Fellowship, Spring 2005.

Andrew Mellon Fellowship, The Needham Research Institute, Cambridge (UK), Fall 2003 (postponed to Summer 2004).

Joint grant applicant, Asian Studies Initiatives Grant, the Freeman Foundation, 2002-2005 (\$1.75million).

Postdoctoral Fellowship, Max Planck Institute for the History of Science, Berlin, 1999-2000.

Professional Service:

Offices and Committees in Professional Societies:

History of Science Society

Council Member, 2015-2017

(Bylaws Committee, 2015)

Chair, Nominating Committee, 2015

Chair, Nominating Committee, 2011

Forum of the History of Science in Asia

Steering Committee (renamed Advisory Board), 2014-2018.

Co-Chair, 2015-2017.

International Society for the History of East Asian Science, Technology and Medicine

Nominating Committee, 2019

Secretary, 2005-2008

Editorial Boards:

Editorial Board, *International Review of Environmental History*, 2018-.

Editorial Board, *Chinese Annals of History of Science and Technology*, 2017-.

Editorial Board, *China and the West*, book series, University of Sydney

Press, 2015-.

Editorial Board, *History of Science*, 2015-

Editorial Board, East Asian Science, Technology, and Medicine, 2012-.

Editorial Board, *Osiris*, 2011-2015.

Editorial Board, 《自然科学史研究》 (*Studies in the History of Natural Sciences*, in Chinese), 2009-.

Associate Editor, *Historical Studies in the Natural Sciences*, 2007-2014.

Editorial Board, *East Asia Science, Technology and Society: an International Journal*, 2006-.

Editorial Board, *Review, Journal of the Fernand Braudel Center*, 2006-2010.

Editorial Board, book series *Science and Culture in the Nineteenth Century* (Chatto&Pickering, 2005-2012; University of Pittsburgh Press, 2015-).

Advisory Editorial Board, *Isis*, 2004-2006.

Editorial Board, *Metascience*, 2002-4.