

Dagmar Schäfer, Curriculum Vitae

Contact: Boltzmannstraße 22, 14195 Berlin, Germany
+49 30 226 67 151, dschaefer@mpiwg-berlin.mpg.de

Dagmar Schäfer is director of Department III, "Artefacts, Action and Knowledge" at the Max Planck Institute for the History of Science in Berlin; Honorary Professor, History of Technology, Technical University, Berlin; Adjunct Professor, Institute of Sinology, Freie Universität, Berlin; and Guest Professor, School of History and Culture of Science, Shanghai Jiao Tong University, China.

Her main research interest is the history and sociology of technology of China, focusing on the paradigms configuring the discourse on technological development, past and present. She has published widely on materiality, the processes and structures that lead to varying knowledge systems, and the changing role of artefacts -- texts, objects and spaces -- in the creation, diffusion and use of scientific and technological knowledge. Her monograph *The Crafting of the 10,000 Things* (University of Chicago Press, 2011) won the History of Science Society: Pfizer Award in 2012 and the Association for Asian Studies: Joseph Levenson Prize (Pre-1900) in 2013. Her current research focus is the historical dynamics of concept formation, situations, and experiences of action through which actors have explored, handled and explained their physical, social and individual worlds.

ACADEMIC POSITIONS

Director, Department III, Max Planck Institute for the History of Science, Berlin	04/2013–present
Adjunct Professor, Institute of Sinology, Freie Universität, Berlin	11/2016–present
Guest Professor, School of History and Culture of Science, Shanghai Jiao Tong University	07/2016–present
Professor h.c., History of Science and Technology, Technical University Berlin	07/2015–present
Head of the Department of East Asian Studies, The University of Manchester	01/2012–07/2013
Professor and Chair of Chinese Studies and History of Technology, School for Arts and Languages, The University of Manchester	2011–07/2015
Director, Confucius Institute Manchester	08/2011–07/2013
Director, Independent Research Group "Concepts and Modalities: Practical Knowledge Transmission" (China, 10th–18th century), Max Planck Institute for the History of Science, Berlin	05/2006–08/2011
Assistant Professor, University of Würzburg, Department of Chinese Studies	04/2005–08/2005

EDUCATION

Habilitation University of Würzburg, Chinese Studies (<i>opus eximium</i>)	2005
Ph.D. Chinese Studies, Japanese Studies, Political Science University of Würzburg (<i>opus eximium</i>)	1996
M.A. Chinese Studies, Japanese Studies, Political Science, University of Würzburg (<i>summa cum laude</i>)	1993

HONORS AND FELLOWSHIPS

Joseph Levenson Book Prize (pre-1900 category) of the Association for Asian Studies, 2013, for:
The Crafting of the Ten Thousand Things
Pfizer Award of the History of Science Society for the best scholarly work and outstanding book
dealing with the history of science, 2012, for: *The Crafting of the 10,000 Things*
Award for Excellent and Outstanding International Research. Ruchti-Stiftung, 2006
Scholarship for outstanding scholars, Bavarian Ministry of Science, 2005–2006
Award for Excellent Research. Unterfränkische Gedenkstiftung, 1997
Individual Fellowship, Max Planck Institute for the History of Science, 2005/9–2005/10
HWP Scholarship (interim), provision of scholarship for outstanding academics by the Bavarian
government, 2003–2004
German Research Council (DFG) Grant, Department of Sinology, University of Würzburg, 2001–
2004
Academia Sinica, Research Grant, P.R. China, Beijing, 2002/9–2002/11
DFG, Research Grant, Taiwan, *Ts'ing-hua*-University, 2002/3–2002/7
Academia Sinica, Research Grant, P.R. China, Beijing, 2002/1–2002/2
Post-Doctoral Fellowship, University of Würzburg, 1998–2001
DFG, PhD Scholarship, 1994–1996
Academic Exchange Scholarship (DAAD), P. R. China, National Zhejiang University, Department
of Chinese History and Journalism, 1990–1991
University of Würzburg, Exchange Scholarship, P. R. China, National Zhejiang University, 1990

PROFESSIONAL SERVICES

Services to the University

Principal Investigator British Inter-University Centre for Chinese Studies BICC (Since 2013/7)
Research Director of the Division for Language-Based Area Studies (Since 2012)
Head of the Department of East Asian Studies (2011-2012)

PhD level – education (current principal supervisor)

Qioa Yang – since 2017/09: The role of astronomers and physicians in the exchange of scientific
knowledge in the Mongol Empire (1206-1368), Mandel School for Advanced Studies –
Hebrew University of Jerusalem
and Kerstin Pannhorst – since 2017/09: practices and conceptions of nature surrounding the
collecting and trading of insects in early 20th century Taiwan, Chair of the History of
Science – Humboldt-Universität zu Berlin
Jia-ou Song – since 2012/10: Physical Science in Museums: a Comparative Study between the UK
and China since 1900, ESRC Grant – The University of Manchester
Johannes Lotze – since 2012/10: In Many Minds: Translators and Interpreters during the Early
Ming Era (1368–ca. 1450), Presidential Scholarship, The University of Manchester
Cathleen Paethe – since 2009/06: The Bibliophile Qi Chengye. A Study of Ming Dynastic Book
Consumption and Production, Co-supervised by Michael Lackner, DFG-Research Fund,
University of Erlangen

Academic Memberships

British Society for the History of Science (BSHS)
History of Science Society (HSS)
Society for the History of Technology (SHOT)
Association for Asian Studies (AAS)
Alexander von Humboldt Stiftung (AvH)
Deutsche Vereinigung für Chinastudien (DVCS)
Gesellschaft für Technikgeschichte (GTG)
Gesellschaft für Deutsch-Chinesische Freundschaft (GDCF)
German-Israeli Frontiers of Humanities Symposium (GISFOH) Appointed/Selected member of
the German-Israeli Frontiers of Humanities Symposium (GISFOH) "On the Move: People,
Ideas, and Artifacts." Kibbutz Tzuba, Israel. December 2009.

Partnerships and Cooperations

Supervisor of Partner Group of the Chinese Academy of Science (CAS) and the Max
Planck Society (MPG) at the Institute of the History of Natural Science (IHNS), Beijing,
China (inaugurated September 2007)
Principal Investigator in joint research project cooperation between the Max Planck
Institute for the History of Science (MPIWG) and the Palace Museum (PM) in Beijing,
China (agreed December 2007, renewed 2011)
Principal Investigator China Historical GIS Project, a multi-access shared knowledge digital
platform in collaboration with the MPIWG and Harvard-Yenching Institute, Harvard
University

EDITORIAL BOARD MEMBER POSITIONS

China Biographical Database (CBDB) at Harvard – Steering Committee
Crossroads: An Interdisciplinary Journal of Southeast Asian Studies, special issue *History of Science
and Technology across the Silk Roads*, Brill – Guest Editor
Transversal: International Journal for the Historiography of Science, Journal – Editorial Board
Member
Journal for East Asian Science, Technology, Medicine (EASTM) – Editorial Board Member
Science and Religion in East Asia, Brill: Leiden, serial editor (with Benjamin Elman and Kim-Yunk
Sik)
Artefacts - Member of the International Committee
Transfers. Interdisciplinary Journal of Mobility Studies – Editorial Board Member
Edition Open Access – Series Editor

BOOK MANUSCRIPTS

The Crafting of the 10,000 Things: Knowledge and Technology in 17th-Century China,
(Chicago: The University of Chicago Press, 2011). Translated into Chinese as: *Gong kai wan wu :
17 shi ji Zhongguo de zhi shi yu ji shu* 工开万物: 17 世纪中国的知识与技术 (Jiangsu ren min chu ban
she 江苏人民出版社: Nanjing 南京), 2015
*Weaving an Economic Pattern in Ming Times (1368–1644): The Production of Silk
Weaves in the State-Owned Silk Workshops*, co-authored with Dieter Kuhn, (Heidelberg:
edition forum, 2002).
*Des Kaisers seidene Kleider. Staatliche Seidenmanufakturen in der Ming-Zeit (1368–
1644)* [Silk Cloth for the Emperor: State-owned Silk-Workshops during the Ming Dynasty
(1368–1644)] (Heidelberg: edition forum, 1998).

EDITED VOLUMES AND SPECIAL ISSUES

- Threads of Global Desire*. Co-edited with Giorgio Riello & Luca Mola (Boydell & Brewer) (forthcoming 2018)
- Animals Through Chinese History: Earliest times to 1911*. Co-edited with Roel Sterckx & Martina Siebert (Cambridge University Press) (forthcoming 2018)
- Science during the Song Era*. EASTS Special issue 38/39 of the Independent Research Group D Schaefer, Max Planck Institute for the History of Science, Berlin, in collaboration with the Research Group, Sun Xiaochun, Institute for the History of Science, Chinese Academy of Sciences (Tübingen, 2015).
- Rice: Global Networks and New Histories*. Co-edited with Francesca Bray, Peter Coclanis, Edda Fields-Black (Cambridge University Press).
- Globalisierung und transnationaler Techniktransfer*. Edited in collaboration with Marcus Popplow, special issue for *Technikgeschichte* 80, 2013.
- Cultures of Knowledge: Technology in Chinese History*. (Leiden: Brill, 2012).

ARTICLES AND CHAPTERS IN BOOKS

- China and Japan*. In *Handbuch Wissenschaftsgeschichte*, eds. M. Sommer, S. Müller-Wille, & C. Reinhardt (Stuttgart, Metzler 2017), 166-177.
- Interpreting the collection and display of contemporary science in Chinese museums as a reflection of science in society*. Co-author Song, J.-O. In *Challenging collections: approaches to the heritage of recent science and technology*, eds. A. Boyle, & J.-G. Hagmann (Washington, D.C., Smithsonian Institution Scholarly Press, 2017), 88-102.
- Thinking in Many Tongues: Language(s) & Late Imperial China's Science*, *Isis*, vol. 108 (3) (2017), 621-28
- Science in the Medieval East*. In *Oxford Illustrated History of Science*, ed. Iwan Rhys Moreus (OUP, June 2017) 108-142.
- Ostasiens Wissenschaftsgeschichte: Chinas langer Atem und Japans Moderne*. In *Metzlers Handbuch* (forthcoming 2017).
- Knowledge by Design—Architecture and Jade Models During the Qianlong 乾隆 Reign (1735–1796)*. In *The Structures of Practical Knowledge*, ed. Matteo Valleriani (Springer, 2017) 271-286.
- Compiling a database on historical China from local records: the Local Gazetteers Project at MPIWG*. Co-authors Chen, S.-P., Hong, Z., Siebert, M., & Urzúa, J. In *Digital Humanities 2016: conference abstracts; Kraków 11–16 July 2016*, eds. M. Eder, & J. Rybicki (Kraków: Jagiellonian University & Pedagogical University, 2016), 453-455.
- Books for Sustenance and Life: Bibliophile Practices and Skills in the Late Ming and Qi Chenghan's Library Dansheng tang*, with Cathleen Paethe. In *Kodex - Jahrbuch der Internationalen Buchwissenschaftlichen Gesellschaft im Auftrag der Internationalen Buchwissenschaftlichen Gesellschaft: Band 6, Transforming Book Culture in China, 1600-2016*, eds. Daria Berg & Giorgia Strafella, (Wiesbaden, Harrasowitz, 2016), 19-47.
- Techniques et territoires en Asie orientale*, in cooperation with Aleksandra Kobiljski. In *Histoire des Techniques, Mondes, Sociétés, Cultures (XVI^e-XVIII^e Siècle)*, eds. G. Carnino, L. Hilaire-Perez, & A. Kobiljski (Paris, Nouvelle Clio, puf 2016), 25–50.
- Culture et technique* in cooperation with Marie Thébaud-Sorger, In: *Histoire des Techniques, Mondes, Sociétés, Cultures (XVI^e-XVIII^e Siècle)*, eds. G. Carnino, L. Hilaire-Perez, & A. Kobiljski (Paris, Nouvelle Clio, puf 2016), 369–94.
- Technology and Innovation Within Expanding Webs of Exchange* in cooperation with Marcus Popplow. In *The Cambridge World History*, vol. 5, *Expanding Webs of Exchange and Conflict 500CE–1500CE*, 303–30, eds. B. Kedar & M. Wiesner-Hanks (New York: Cambridge University Press 2015), 287–308.
- Patterns of Design in Qing-China and Britain during the Seventeenth and Eighteenth Centuries*. In *Goods from the East, 1600-1800. Trading Eurasia*, ed. Maxine Berg (Palgrave Macmillan, 2015), 107–18.

- Knowledge Spheres: Borderlines and Intersections of Expertise and Knowing in China, Song to Qing* in cooperation with Xiaochun Sun, *EASTM*, vol. 38 (2014), 9–16.
- Media and Migration: Qing Imperial Approaches to Technological Knowledge Circulation. In Space and Location in the Circulation of Knowledge (1400–1800). Korea and Beyond*, eds. M. Eggert, F. Siegmund, & D. Würthner (Frankfurt a. M., Berlin, et al.: Peter Lang, 2014), 87–118.
- Peripheral Matters: Selvage/Chef-de-piece Inscriptions on Chinese Silk Textiles*, *UC Davis Law Review*, vol. 47 (2) (2013), 705–33.
- Globalisierung, Kulturvergleich und transnationaler Techniktransfer als Herausforderung für die Technikgeschichte* in cooperation with Marcus Popplow, in *Technikgeschichte* (2) (2013), 1–12.
- Formen und Funktionen von Verschriftlichung im klassischen China: Objekte und funktionale Inschriften während der Ming Dynastie (1368–1645)*. In *Natur – Religion – Medien, Transformationen frühneuzeitlichen Wissens*, eds. T. Burkard, M. Hundt, & S. Martus et al., (Berlin: Akademie Verlag, 2013), 355–70.
- Technology and Innovation in Global History and in the History of the Global*. In *Writing the History of the Global, Challenges for the Twenty-First Century*, ed. Maxine Berg, British Academy of Science (Oxford: Oxford University Press, 2013), 147–64.
- Objekt-Kultur und Kulturobjekt: Inschriften als Quelle für die Untersuchung globaler und lokaler Strukturen im Waren- und Wissensmanagement während der späten Ming-Zeit (16./17. Jahrhundert)*. In *Spuren der Avantgarde: Theatrum Oeconomicum*, eds. H. Schramm, J. Lazardzig, & V. Tkaczyk (Berlin and New York: Walter de Gruyter Verlag, 2013).
- Silken Strands: Making Technology Work in China*. In *Cultures of Knowledge: Technology in Chinese History*, ed. Dagmar Schäfer (Leiden: Brill, 2012), 45–74.
- Inscribing the Artifact and Inspiring Trust: The Changing Role of Markings in the Ming Era*, in *East Asian Science, Technology and Society: An International Journal* (5) (2011), 239–65.
- Technologie und Innovation im vormodernen China: Ein historischer Überblick*, in *Wissens- und Technologietransfer Asien-Europa; Ferrum* (82) (2010), 15–24.
- Staunen und Forschen in wunderlichen Welten*. In *Wunderforschung: Ein Experiment von Kindern, Wissenschaftlern und Künstlern*, eds. K. Bödeker & C. Hammer (Berlin: Nicolai-Verlag, 2010), 118–21.
- Ganying – Resonance in Seventeenth-century China: The Examples of Wang Fuzhi (1609–1696) and Song Yingxing (1589–ca. 1666)*, in *Variantology 3: On Deep Time Relations of Arts, Sciences and Technologies in China and Elsewhere*, eds. S. Zielinski & E. Furlus. (Köln: König, 2008), 225–54.
- Matteo Ricci, der gelehrte Missionar*, in *Spektrum der Wissenschaft* (September 2006), 88–97.
- Der Außenstehende: Song Yingxing (1587–1666?)*. In *Kritik im alten und modernen China*, ed. Heiner Roetz (Wiesbaden: Harrasowitz, 2006), 165–78.
- The Congruence of Knowledge and Action: The Tiangong kaiwu and its Author Song Yingxing*, in *Chinese Handicraft Regulations of the Qing Dynasty: Theory and Application*, eds. C. Moll-Murata, S. Jianze, & H. Ulrich Vogel (München: Iudicum, 2005), 35–60.
- Song Yingxing (1587–1666?) – A Technical Author?*. In *Tsing-hua ta-hsüeh lun-wen fa-piao* 4 (2002), 1–31.
- Die Legitimation der Beamten in der Song-Dynastie*. In *Beamtentum und Wirtschaftspolitik in der Song-Dynastie*, ed. Dieter Kuhn, (Heidelberg: Edition Forum 1995), 78–172.

BOOK REVIEWS

- Florence Bretelle-Establet (ed.), *Looking at it from Asia: The Processes that shaped the Sources of History of Science* (Dordrecht, etc.: Springer) (Boston Studies in the Philosophy of Science; 265) (2010), XLVI, *EASTM* (2013), 35:24–31.
- Feza Günergun and Dhruv Raina (eds.), *Science between Europe and Asia: Historical Studies on the Transmission, Adoption and Adaptation of Knowledge* (Dordrecht: Springer-Verlag, 2011), review for *ISIS* (2012), 103 (3): 624–25.

- K. G. Robinson et al., "The Social Background, Part 2, General Conclusions and Reflections, in *Science and Civilisation in China, vol. 7*, ed. Joseph Needham (Cambridge University Press, 2004). *East Asian Science Technology, and Medicine EASTM* (2011), 33: 121–27.
- Historical Perspectives on Chinese Metallurgy*, review article of "Joseph Needham, *Science and Civilisation in China, vol. 5, Chemistry and Chemical Technology, Part 11: Ferrous Metallurgy*," by Donald B. Wagner (Cambridge University Press, 2008), *Metascience* (2010), 19: 479–82.
- Benjamin A. Elman, *On Their Own Terms: Science in China, 1550–1900* (Harvard University Press, 2005), *Harvard Journal of Asiatic Studies* (2007) (67.2): 468–75.
- Song Yingxing (1587–1666), *Tiangong Kaiwu (The Exploitation of the Works of Nature), from the classical Chinese translated by Konrad Herrmann* (Wirtschaftsverlag NW, Verlag für Neue Wissenschaft, 2004), *Hefte für Ostasiatische Literatur* (2005) (38): 125–27.

INVITED TALKS AND CONFERENCES

See separate document "Invited Talks and Conferences":
<http://oc.rz-berlin.mpg.de/owncloud/index.php/s/KT2RXVITEZkL4Bi>

TEACHING EXPERIENCE

- Shanghai Jiaotong University (2016)
 (1) Summer School: Historiography of Science of Science of East Asia in the West
- University of Chicago (2016)
 (1) Summer School: Textiles and Labour
- TU Berlin (2015/2016)
 (1) Staatsmanufakturen: Wissenschaft und nützliche Künste in Eurasiens Weg in die Moderne
- University of Manchester (2011–2015)
 (1) Classical Chinese, Introduction to Grammar and Literary Genres, (2) Introduction to Chinese Studies EALC 10050, co-taught with James St Andre and William Schroeder
 (3) Energy and environment: China and Asia 900–1800
- University of Zurich (2011)
 (1) Research Seminar: Concepts and Models of Technological and Scientific Knowledge Transfer, co-taught with Prof. Dr. Mareile Flitsch
- Technical University Berlin (2006–2011)
 (1) Seminar: Urbanisierung – Verortung von Wissen im historischen China (10.–16. Jh.),
 (2) Reading-Seminar: Landwirtschaft und Wissenschaft: Das Zwanzigste Jhd., (3) Seminar: Einführung in die Technikgeschichte Chinas seit der Ming-Zeit: Denken, Handeln, Schreiben, parts 1 and 2, (4) Seminar-Lecture: Consuming Culture: Asia's Modernism, (5) Seminar: Naturwissenschaft und Technik in China vom 14.–17. Jahrhundert: Konzepte, Ideen, Realitäten
- Humboldt University of Berlin (2007)
 (1) Seminar: Naturwissenschaft und Technik in China vom 14.–17. Jahrhundert: Konzepte, Ideen, Realitäten
- University of Würzburg (1994–2008)
 (1) Seminar: Foreign kings, remote emperors: Legitimation in Imperial rulership, (2) Seminar: Tourism: Traditions within New Cultures of Interaction, (3) Seminar: Trade and Guilds, (4) Seminar: State monopolies in dynastic China, (5) Seminar: Nationalism in Asia – 20th century, (6) Reading Seminar: War in China: Technologies and Strategies, (7) Reading Seminar: Carts, boats, horses: Transportation and Infrastructure in Medieval China, (8) Seminar: The West is strong: Intellectual Climate in China 1875–1922, (9) Lecture-Seminar: Einführung in die Wissenschaftsgeschichte: Mit einem Fokus auf Asiens Technologie, (10) Reading Seminar: Chinesische Enzyklopädien, (11) Reading

Seminar: Classisches Chinesisch: Chengyu, (12) Seminar: Beamten in der Song-Dynastie:
Literati-Kultur

LANGUAGES

Fluent in speaking, reading and writing in Modern Chinese, English, German;
Reading and Writing ability in Classical Chinese, French, Dutch, Japanese, Latin, Classical
Mongolian