

Dagmar Schäfer, Curriculum Vitae

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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)

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 (GDCCF)
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

- 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

- MS in preparation: *Models, Sketches, Artefacts: The Art of Practical Knowing* (working title), monograph.
- The Crafting of the 10,000 Things: Knowledge and Technology in 17th-Century China*, (Chicago: The University of Chicago Press, 2011).
- 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).

ARTICLES AND CHAPTERS IN BOOKS

- China und Japan*. In M. Sommer, S. Müller-Wille, & C. Reinhardt (Eds.), *Handbuch Wissenschaftsgeschichte* (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., A. Boyle, & J.-G. Hagmann (Eds.), *Challenging collections: approaches to the heritage of recent science and technology* (Washington, D.C., Smithsonian Institution Scholarly Press, 2017), 88-102.
- Thinking in Many Tongues: Language(s) & Late Imperial China's Science*, Isis (forthcoming September 2017).
- Science in the Medieval East*. In (ed.) Iwan Rhys Moreus, *Oxford Illustrated History of Science*, Oxford Illustrated History Book series, (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* (Springer, 2017).
- 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 M. Eder, & J. Rybicki (Eds.), *Digital Humanities 2016: conference abstracts*; Kraków 11–16 July 2016 (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 (eds.) Daria Berg and Giorgia Strafella, *Kodex - Jahrbuch der Internationalen Buchwissenschaftlichen Gesellschaft im Auftrag der Internationalen Buchwissenschaftlichen Gesellschaft: Band 6, Transforming Book Culture in China, 1600-2016* (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)*, (Paris, Nouvelle Clío, 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)*, (Paris, Nouvelle Clío, 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 (New York: Cambridge University Press 2015), 287–308.
- "Patterns of Design in Qing-China and Britain during the Seventeenth and Eighteenth Centuries", in Maxine Berg (ed.), *Goods from the East, 1600-1800. Trading Eurasia* (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 Marion Eggert, Felix Siegmund and Dennis Würthner (eds.), *Space and Location in the Circulation of Knowledge (1400–1800). Korea and Beyond* (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 Burkard, Hundt, Martus et al. (eds.), *Natur – Religion – Medien, Transformationen frühneuzeitlichen Wissens* (Berlin: Akademie Verlag, 2013), 355–70.
- "Technology and Innovation in Global History and in the History of the Global", in Maxine Berg (ed.), *Writing the History of the Global, Challenges for the Twenty-First Century*, 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*, edited by Schramm, Lazardzig und 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*, edited by 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*, edited by Katja Bödeker and Carmen 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*, edited by Siegfried Zielinski, and Eckhard 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*, edited by 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*, edited by Christine Moll-Murata, Song Jianze, and Hans 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*, edited by Dieter Kuhn, Heidelberg: Edition Forum 1995), 78–172.

EDITED VOLUMES AND SPECIAL ISSUES

- 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* (2), June.
- Cultures of Knowledge: Technology in Chinese History*. (Leiden: Brill, 2012).

BOOK REVIEWS

- Bretelle-Establet, Florence (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.
- Science between Europe and Asia: Historical Studies on the Transmission, Adoption and Adaptation of Knowledge by Feza Günergun and Dhruv Raina* (eds.) (Dordrecht: Springer-Verlag, 2011), review for *ISIS* (2012), 103 (3): 624–25.
- Joseph Needham, *Science and Civilisation in China*, vol. 7, "The Social Background, Part 2, General Conclusions and Reflections," by K. G. Robinson et al. (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.
- Review article of "On Their Own Terms: Science in China, 1550–1900", by Benjamin A. Elman (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 CONFERENCE PAPERS

See separate document "Invited Talks and Conference Papers" + Link

- The Nominal Group – Things in Ming-Chinese Local Gazetteers (Difangzhi), Technische Universität Darmstadt, Darmstadt, Germany, 16/06/2017.
Keynote address: Politics and Scientific Change in Dynastic China, at Knowing Nature: The Changing Foundations of Environmental Knowledge, Renmin University, Beijing, China, 25/05/2017.
- Dynastic Knowledge and the Knowledge of Dynasties: Politics and the History of Scientific Change in China, Columbia University, New York, USA, 03/04/2017.
- A Cosmos of Silkworms: Textils and Knowledge Of Nature From 12th-14th Century China, University, Princeton, USA, 30/03/2017.
- For Substance or Health: Medical Substances for Animals in Fifteenth-Century Ming Dynasty, The University of Warwick, Coventry, England, 21/02/2017.
- Chair of Round Table: Science and Technology in Global History: The Development of an Interdisciplinary Research Agenda, The University of Warwick, Coventry, England, 21/02/2017.
- PG Masterclass: 'Comparative History: Language and Matter in Global Studies of Technology and Innovation', The University of Warwick, Coventry, England, 21/02/2017.
- Ming China Disintegrated. The Chances and Pitfalls of the Global View, European University Institute, Florence, Italy, 06/02/2017.
- A Cosmos of Silkworms: Textils and Knowledge Of Nature From 12th-14th Century China, University of Erfurt, Erfurt, Germany, 26/01/2017.
- Local Gazetteers and named entities recognition (with Brent Ho). Grand corpuses of Classical Chinese, University of Leipzig, Leipzig, Germany, 12/01/2017.
- Concepts, Values, Machines or Groups: The Language and Matter of Comparison in the Fissiparous Discipline of the History of Science, MPI-MMG Göttingen, Germany 08-09/04/2016.
- Größer, besser, länger: Langzeitplanung und Sofortmaßnahmen der Ming Dynastie im Jahr 1435, FU Berlin, Germany, 24/11/2015.
- GWG DGGMNT Tagung, Technik und Erkenntnis: Oder warum Organisieren Wissen schaf(f)t, TU Berlin, Germany, 26/09/2015.
- Discussant: Cross-currents and Intersections: EAHSTM's Place and Role in the Scholarly Field Today, International Conference on the History of Science in East Asia (ICHSEA), Paris, France, 09/07/2015.
- Visualizations of Heaven, International Conference on the History of Science in East Asia (ICHSEA), Paris, France, 06/07/2015.
- Value and Meaning in Exchange for Cloth. A Yuan Approach, Jerusalem, 10/06/2015.
- Organisation und Wissen-Schaffen: Ideen zu natürlichen und gesellschaftlichen Ordnungsprinzipien im China des 17. Jhs., von Huang Zongxi, Deutsches Museum Montagskolloquium, München, 22/06/2015.
- Gifts of Grace: Materiality and Knowing in the History of Science, Universität Köln, 15/05/2015.
- Fermentation, Distillation and the History of Science, Universität Salzburg, 11/05/2015.
- Das ethische Produkt, oder wie man im China der Ming-Zeit (1368–1645) Moral in Material übersetzte, GTG Konferenz, Potsdam, 08/05/2015.
- Networks: Textile Arts and Textility in a Transcultural Perspective (4th–17th century), *Silk: The Worm and the Fibre*, Humboldt-University Berlin, 30/01/2015.
- Science Studies Colloquium Series, *Moments of decision in the making of science: A Ming Dynastic view*, Oslo, 28/01/2015.
- Freie Universität Berlin, Colloquium of Prof. S. Conrad, *Technologie und Innovation in der Globalgeschichte*, Berlin, 19/01/2015.
- Institute's Colloquium of the Max Planck Institute for European Legal History, *Das ethische Produkt, oder wie man Moral in Materie übersetzt. Regeln für Herrscher von Qiu Jun (1421–1495)*, Frankfurt, 16/12/2014.

Conference Artefacts - Knowledge - Tools: On Material Cultures of Translation, *Concepts of capability in Ming and Qing scholarly and bureaucratic literature*, Völkerkundemuseum Zürich, 07/11/2014.

Chair of Roundtable, Conference *The Making of Useful Knowledge*, Center for the History of Knowledge, Berlin, 30/10/2014.

Transgressing Difference, Neue Ansätze in der Erforschung von Wissenskulturen, *Planning, Organization and Management: Moments of Decision in Knowledge Making*, Wien, 09/10/2014.

Wissenstransfer und Modernisierungsprozesse zwischen Europa und Ostasien, *10.000 Dinge – Technologie im China des 17. Jahrhunderts*, Wissenschaftshistorische Seminare Leopoldina, Halle, 07/10/2014.

Quality Counts: Ming State-Owned Manufactures for Silk, *European Court and State Manufactures in a Global Perspective, 1400–1800*, EUI, Badia Fiesolana, Sala del Capitolo, 23/09/2014.

Moving Asia on the Move (with Stephanie Ponsavady), *Frontiers of Mobility Studies: A Transfers Perspective*, Philadelphia, 20/09/2014.

Local Monographs as an Asian Genre and the Effects of Digitization on Archaeology, Museology and Texts, Conference *BIBLIOTECHNICA, Digital Arts, Philology, and Knowledge Worlds*, San Giorgio, 10/09/2014.

Qing Dynastic Tools of the Trade. On the Panel: Sails, Maps, Metals, and Minerals: Comparing Knowledge System in China and Europe, *c. 1200–1900*, Paris, *EUNIGH Conference*, 05/09/2014.

Panel: States and Manufactures in a Global and Comparative Perspective, 1400–1800, Commentator, Paris, *ENUIGH Conference*, 05/09/2014.

Planning for Crafts: The Lure of Imitating the Past during Yongzhengs Reign, *Iteration and/as Transformation of Knowledge*, Berlin, Berlin-Brandenburgische Akademie Conference, 04/07/2014.

Drei Dimensionen von Modellen: Gelehrtentum und Staatswesen im China des 17. Jahrhunderts, *Europa in Globaler Perspektive*, Berlin-Brandenburgische Akademie der Wissenschaften, 03/07/2014.

Studies of Knowledge in Eurasia and Africa: Issues of Methodology and Future Perspectives – *Dark Lights, Bright Sites: Historical Research on Science, Technology and Medicine in East Asia*, Berlin, MPIWG Conference, 30/06/2014.

Identities or Methods: *How to Discuss the Historical Dynamics of Scientific Knowledge Development*, Warwick, Conference on the Future of World and Global History, 23/05/2014.

Näherungsweise Wissenschaften: Ideen zu Wissen und Handeln im Ming-zeitlichen 17. Jahrhundert, Hannover, Institut für Philosophie/ZEWW, 22/04/2014.

Things (wu) and Material Complexities in Seventeenth-Century Chinese State and Market Economies, MPIWG, Berlin, 14/03/2014.

Produktion und Verbreitung technologischen Wissens in China, FU Berlin, 31/01/2014.

Materiality and Cultural Transfer – *Classified by Locality: About the Origin and Identity of Matter and Things*, TU Dresden, 24/01/2014.

Wissen und Handeln: Chinas wildes 17. Jahrhundert, Humboldt-Universität zu Berlin, 21/01/2014.

Complex Materialities: Silk Manufacture and the Notion of Standards in the Ming Era (1368–1644), Tel Aviv University, 07/01/2014.

Elusive Systems: Knowledge in this Era from the Perspective of a Historian of China at the Conference *Knowledge in this Era: Historical Perspectives, Contemporary Challenges and the Future of Higher Education*, Tel Aviv University, 05–06/01/2014.

Organisation and Skills in the Qing at the Templeton conference, Seoul, 13/12/2013.

Copies and Artefact Reproduction in Qing-China during the 17th and 18th Century. A Role for Books ... invited paper delivered at the conference *The Production and Circulation of Printed Books in the Occident and Orient, from the Accession of the Tang Dynasty (c. 618) to the First Industrial Revolution*, London, British Academy, 14–15/02/2013.

Pattern Books in Qing-China and Britain during the 17th and 18th century, paper presented at the conference *Goods from the East: trading Eurasia 1600–1830*, Palazzo Pesaro-Papafava, Venice, University of Warwick, 11–13/01/2013.

Three Dimensions. Design and State Planning in the Qing Era, invited lecture given at the V&A Museum, History of Design and Material Culture, Research Seminar, London, 08/11/2012.

Models, Sketches, Artefacts during the Qing Era, paper presented in the panel Global Phenomena and Local Specificities: Conduits between Scientifically-Minded Elites and Holders of Artisanal Knowledge between the East and the West, on the occasion of the *5th Conference of the European Society for the History of Science (ESHS)*, Athens, Greece, 01–03/11/2012.

Peripheral Matters: Selvage Inscriptions on Chinese Silk Textiles, Invited lecture delivered at the Conference *Brand New World: Distinguishing Oneself in the Global Flow*, UC Davis Law Review Symposium, Sponsored by Google: Brand New World, 04–05/10/2012.

Innovation Made in China. Historical and Contemporary Views, invited lecture, CASA ASIA, Madrid, Ramón Areces Foundation, 01/10/2012.

Brands and Property in Ming China, paper in the session From Guild Marks to the Made, in.... : Marks of Origin and Country Branding in the Global Economy (15th–20th centuries), at the *XVITH World Economic History Congress*, Stellenbosch Südafrika, 09–13/07/2012.

One Cow per Plow: Husbandry and Resource Competition during the Song Era, paper presented in collaboration with Han Yi at the *11th Annual Conference on Asian Studies* in Israel 22–23/05/2012.

Samples, Sketches and Scaled Models at the Qing Court, paper presented at the Conference *From Qing to China: Rethinking the Interplay of Tradition and Modernity*, Tel Aviv, 20–22/05/2012.

Technology by Design: Planning Arts and Crafts in the Qing Era, invited talk at the Symposium *Approaching Art and Design from Asia: Questions of Method, Between Art and Design*, organized by Angus Lockyer, SOAS, London, 03/03/2012.

Drawings and Sketches at the Qing Court, invited guest lecture at the conference *Sincere Hand and Faithful Eye (Kognitive Praxen in naturwissenschaftlichen Texten des 17. und 18. Jahrhunderts)*, Jena, 02–03/03/2012.

Precious Litter: Qing Imperial Craft Production and Intangible Cultural Heritage, invited Talk, *Museum of the University of Manchester*, 26/10/2011.

Die Stadt in der Yuan- und Ming-Zeit. Lebensraum und Verwaltungseinheit, Colloquium der TU Berlin und MPIWG zu *Stadtmauern: Chance der Stadterneuerung und Objekt der Denkmalpflege: Erfahrungen in China und Mitteleuropa*, TU Berlin, 14/09/2011.

Multimedia Culture: Tao Zongyi Writes about Practical Knowledge and Material Culture, workshop on *The Mongols & the Ming: New Approaches to the Fourteenth Century*, University of Warwick, 6/2011.

Media and Migration: Qing Imperial Approaches to Technological Knowledge Circulation, AKS/RUB International Conference *Social Networks and Location in the Circulation of Knowledge*, Ruhr-University Bochum, 05/2011.

Crafts of the Empire: Means and Methods of Circulating Practical Know-How in Qing (17th/18th century) China. Panel *Circulation of Knowledge in the Early Modern World* ENIUGH, London, 04/2011.

Technological Knowledge Circulation during the Qing and the Use of Geographical Analysis Tools, workshop “Administrative and Colonial Practices in Qing-Ruled China – Lifanyuan and Libu revisited”, Max-Planck-Institut für Ethnologische Forschung, Halle, 04/2011.

Von Mindmaps zu Daten-Mapping: wie digitale Medien die sinologische Forschung veränderten, Berlin Colloquium for Digital Humanities, MPIWG, 03/2011.

Habitus und Habitat: Ming-Literati, Urbanisierung und räumliches Wissen, Public Lecture *Euro-Asian Knowledgeescapes: Concepts and Models of Technological and Scientific Knowledge Transfer* University, Research Priority Program (URPP) Asia and Europe, Universität Zurich, 03/2011.

Knowledgescapes: Geographical Analysis Tools for Research on the Spatiotemporal Relation of Knowledge, workshop *Transliteration and Transfiguration of Cultural Traditions: Archaeology, Medical Knowledge, Art and Science*, MPIWG, 03/2011.

Culture and Communication: Practical Knowledge and Material Production in Imperial China, invited talk, Boston College, 02/2011.

The Properties of Light and Shadow: Colour in the Analyses of Nature in 17th-Century Ming/Qing China, Technical University Berlin (TU Berlin), 18/01/2011.

Intermediaries: Tao Zongyi (1316–1399) and the Yuan Dynasty, JMs University, 07/01/2011.

Culture and Communication in China: The Qing (1645–1911) Court and Technical Production, University of Manchester, 11/2010.

Methods of Communication: Models, Sketches, and Migration in Asia, University of Heidelberg, Summer School, 07/2010.

Science in Asia: The Cultural Context of Knowledge Production, in cooperation with Kapil Raj (Chair), Ecole des Hautes Etudes en Sciences Sociales EHESS, Paris, 07/2010.

Concepts and Modalities of Innovation in Premodern China: Rhetorics and Practices of Change, invited talk given at the conference “The Bright Dark Ages: Rethinking Needham’s Grand Question”, Institute of Southeast Asian Studies, National University of Singapore, 05/2010.

Textile Industry in Song China, paper in cooperation with Han Yi, presented at the workshop “Borderlines and Intersections: Exploring Science and Society in Song China”, Institute for the History of Natural Science (IHNS), Beijing, China, 04/2010.

Inscribing the World: Power, Knowledge and Rules in Late Imperial China, invited Brown Bag Lecture, Weatherhead East Asian Institute, Columbia University, 02/2010.

Knowledge between Text and Object: Inscriptions in Premodern China, invited talk given at the annual seminar History of Science in Asia “Calendars”, Centre National de la Recherche Scientifique (CNRS), Paris, 01/2010.

Inscribing the World: Practices of Knowledge Appropriation in Ming and Qing China, German-Israeli Frontiers of Humanities Symposium (GISFOH), *On the Move: People, Ideas, and Artifacts*, Kibbutz Tzuba, Israel, 12/2009.

Technologie und Innovation im vormodernen China: Ein Überblick über neue Forschungsmethoden, invited talk presented at the Technikgeschichtliche Tagung *Wissens- und Technologietransfer Asien-Europa*, Eisenbibliothek Schlatt, Schweiz, 11/2009.

Formen und Funktionen von Verschriftung im China des 17. Jahrhunderts, invited talk, *Wissensdiskursivierungen: Themen, Medien und Räume des Wissens vom 14. bis zum 18. Jahrhundert*, Forschungszentrum “Diskursivierung von Wissen in der Frühen Neuzeit”, Kiel, 11/2009.

Political Power and Professional Expertise: State-owned Workshops in the Ming Dynasty, paper presented at the Third EASTS International Journal Conference *Traditions, Knowledges, and Technologies*, Taiwan, 06/2009.

To Dress for Work: Remnants of the Ming Times, paper presented at the *Third Euro-Asian Network for the Study of Everyday Technologies (EANSET), The Body at Work – Materials and Methods*, Völkerkundemuseum der Universität Zürich, 06/2009.

Detached Objects: Knowledge and Proprietary Claims in 17th-Century Ming/Qing China, paper presented at the conference *Spuren der Avantgarde: Theatrum oeconomicum [Traces of the Avant-Garde: Theatrum oeconomicum]*, Freie Universität Berlin, 06/2009.

Cultures of Innovation, paper presented at the conference *Writing the History of the Global: Challenges for the 21st Century*, British Academy, London, 05/2009.

Ritus und Arbeitswelt im klassischen China: Studien an Objekt und Text, invited talk, Sinologie, Universität Bonn, 02/2009.

Bricks and Bridges: Object Inscriptions, paper presented at the workshop *Writing the Transmission of Knowledge*, MPIWG, Department 1, in cooperation with Stiftung Bibliothek Werner Oechslin, Einsiedeln, Schweiz, 04–05/2009.

Managers and Manufacturers: Claims on Practical Knowledge and Artisan Work in 16th-Century China, paper presented at the *Annual Meeting of the Association for Asian Studies (AAS)*, Chicago, 03/2009.

Mobilität und Lokalität im China der späten Ming-Zeit (16/17. Jahrhundert), invited talk, Universität Würzburg, 01/2009.

Die Macht der Medien: Geschichte in Digitalisation und Datenbanken, paper in cooperation with Dr. Martina Siebert, presented at the conference *Virtuelle Fachbibliothek Ost- und Südostasien, CrossAsia*, Heidelberg, 11/2008.

Appropriating Crafts, Claiming Knowledge: Objects and Owners in Premodern China (Ming/Qing), invited talk at the conference *Global Arts: The Natural World and Global Culture*, Oxford, 10/2008.

Proprietary Issues and Guarantee in 17th-Century Chinese Culture: Technology and Beyond, paper presented at the *XVII Biennial Conference of the European Association of Chinese Studies (EACS)*, Lund, Schweden, 08/2008.

Proprietary Issues in 17th-Century China: Technology, Culture and Beyond, invited plenary lecture held at the 2nd International Conference on the History of Science in East Asia, John Hopkins University, Baltimore, Maryland, 07/2008.

Analysis of Change Over Time Using CHGIS Datasets and WEB 2.0 Technology, paper presented at the Annual Meeting of the Association of American Geographers (AAG), Boston, 04/2008.

Inbuilt Structures/Inherent in the System: Stimulus-response in Chinese Thought of the 17th Century, paper presented at the conference *Phantome im Labor [Phantoms in the Laboratory]*, Zentrum für Literatur- und Kulturforschung, Berlin, 02/2008.

Some Comments about CHGIS and Developments at the Max Planck Institute, paper presented at the workshop *Prosopography of Middle Period China: Using the China Biographical Database*, Warwick University, Department of History, 12/2007.

Ein Wohlfeil Ding: Funktionalität eines Werkstoffs im Wandel der Chinesischen Geschichte, invited talk, Berlin, Freie Universität, 12/2007.

Qiu Jun (1420–1495) und das Daxue yanyi bu (Supplement zu den Erläuterungen zum 'Grossen Lernen'), invited talk, Universität Leipzig, 06/2007.

Ganying – Resonance in Seventeenth-century China: The Examples of Wang Fuzhi (1609–1696) and Song Yingxing (1589–ca. 1666). Paper presented at workshop "Variantology", Kunsthochschule für Medien, Köln, 12/2006.

Effects of a Theory on Technical Contents: The *Lun Qi* as the Cosmo-scientific Backdrop of a Technical Documentation, paper presented at the 11th International Conference on the History of Science in East Asia, München, 08/2005.

Kulturmanagement im Kontext: Greater China und Wirtschaftskontakte über Auslandschinesen, Aussichten für die Druckindustrie, einwöchiges Seminar, IPW-4wPR Ingenieurbüro Peter Wendt, PLZ 97271, 02/2005.

China – Strategische Erwägungen für Unternehmungen in China, invited lecture Jour Fixe Kassel. Beratergruppe Strategie e.V., 11/2004.

Working with *Qi* as Materia – Song Yingxing, paper presented at the XV Biennial Conference of the European Association of Chinese Studies (EACS), Universität Heidelberg, 08/2004.

On the Representation of the Hand in the *Tiangong kaiwu* Illustrations, paper presented at the conference of the Euro-Asian Network for the Study of Everyday Technologies (EANSET) "Die Hand in den Alltagstechniken", TU Berlin, China-Arbeitsstelle, 05/2003.

Technical and Political Aspects of the Encyclopedia *Tiangong kaiwu*, paper presented at the workshop "Chinese Handicraft Regulations: Theory and Application", Universität Tübingen, 03/2003.

Seidenmanufakturen während der Ming-Dynastie – Organisation und Originalität, paper presented at the Graduate Conference on China, Köln, 02/2003.

Öle und Fette. Produktion und Vertrieb in der Ming-Zeit am Beispiel des *Tiangong kaiwu*, talk given in the lecture series *Kultur konkret: Alltagstechniken (Chinas)*, TU Berlin, China-Arbeitsstelle, 11/2002.

Song Yingxing (1587–166?) – A Technical Author? Talk given at Hsin-ch'u University, colloquium by Prof. Ho Peng Yoke (He Bingyu), 04/2002.

CONFERENCE PANELS

- Organizer: Panel: "Empires, Exchange and Civilizational Connectivity in Eurasia" 2/09/2017
Fifth European Congress on World and Global History "Ruptures, Empires, Revolutions"
Budapest
- Organizer: Animals in Asia (funded by BICC, AHRC 10.000 £), 24-26/01/2013
international conference at the University of
Manchester.
- Co-Organizer (together with the Gesellschaft für Technikgeschichte 03-05/06/2011
e.V. [German Society for the History of Technology]):
"Globalisierung, Kulturvergleich und Kulturkontakt
als Herausforderung für die Technikgeschichte
[Globalization, Culture Comparison and Culture
Contact as a Challenge to the History of Technology]",
Max Planck Institute for the History of Science
MPIWG, (10,000 €).
- Co-Organizer (with G. Y. Shen): "Ritual as Technology", Max 12-14/05/2011
Planck Institute for the History of Science (MPIWG).
- Chair and Discussant of Panel *Knowing Places: Cultural 04/2011
Geographies of Song China* at the Annual Meeting of
the Association for Asian Studies (AAS), Honolulu.
- Co-Organizer (with F. Bray): "Commodities and Anti- 24-26/03/2011
Commodities: Rice in Early Modern Thought", Max
Planck Institute for the History of Science (MPIWG).
- Co-Organizer (with L. Molà): "Historical Systems of 17-18/12/2010
Innovation: The Culture of Silk in the Early Modern
World (14-18th Century). A Cross-Cultural Workshop",
Max Planck Institute for the History of Science
(MPIWG).
- Organizer: "Scholars, Craftsmen and Technology: Defining 04-09/10/2010
Experts and Expertise in Chinese Culture",
Workshop, Max Planck Institute for the History of
Science (MPIWG).
- Co-Organizer (with Partner Group IHNS): "Borderlines 12-15/04/2010
and Intersections: Exploring Science and Society
in Song China", Workshop, Beijing, China.
- Organizer: "Technological Cultures: Themes and 01-11/2010
Methods in the History of Technology",
Colloquium Series, MPIWG.
- Co-Organizer (with M. Hofmann): "Status and Skills - The 05-05/09/2009
Portrayal of Individuals in Chinese Historiography,
10th-18th Century", Workshop, MPIWG.
- Chair and Organizer: Session *Appropriating Crafts, 03/2009
Owning Knowledge: Chinese Handicrafts and
Proprietary Issues from Pre-modern to Present Day*
at the Annual Meeting of the Association for Asian
Studies (AAS) Chicago.
- Discussant: Panel on *Practical and Learned Culture in 10/2008
Premodern and Early Modern Europe* at the Annual
Meeting of the Society for the History of Technology
(SHOT), Lisbon.
- Co-Organizer (co-funded by the Palace Museum 20,000 25-27/04/2008

- RMB): "History of Exchange of Craft Techniques between the Imperial Court and the Folk", Workshop, Research Department, Palace Museum, Beijing.
- Organizer: "Cultures of Knowledge: A Book-workshop", MPIWG. 10-11/04/2008
- Co-Organizer (with the Museum für Asiatische Kunst, Staatliche Museen zu Berlin): "Sources on Chinese Architecture in the 19th and Early 20th Century", Workshop. 04/04/2008
- Co-Organizer (with IHNS): "Borderlines and Intersections", Workshop, Beijing, China. 16-30/09/2007
- Organizer: "From Invention to Innovation: Cultural Traditions of Technical Development in China", Conference, MPIWG. 09-13/07/2007
- Co-Organizer (with IHNS): "History of Mechanics." Workshop. Beijing, China. 03-09/09/2006

TEACHING EXPERIENCE

- Shanghai Jiaotong University (upcoming Juli 2016): (1) Summer School: Historiography of Science of Science of East Asia in the West
- University of Chicago (upcoming Mai 2016): (1) Summer School: Textiles and Labour
- TU Berlin (2015/2016)
Kurse: (1) Staatsmanufakturen: Wissenschaft und nützliche Künste in Eurasiens Weg in die Moderne
- University of Manchester (2011-2015)
Courses taught: (1) Classical Chinese, Introduction to Grammar and Literary Genres (2012/13), (2) Introduction to Chinese Studies EALC 10050, co-taught with James St Andre and William Schroeder (2011/12 and 2012/13), (3) Energy and environment: China and Asia 900-1800 (2012/2013)
- University of Zurich 2011
Courses taught: (1) Research Seminar together with Prof. Dr. Mareile Flitsch: Concepts and Models of Technological and Scientific Knowledge Transfer (2011)
- Technical University Berlin 2006-2011
Courses taught: (1) Seminar: Urbanisierung – Verortung von Wissen im historischen China (10.-16. Jh.) [Urbanization: Localising knowledge in space in historical China], part 1 and 2 (2010/11), (2) Reading-Seminar: Landwirtschaft und Wissenschaft: Das Zwanzigste Jhd. [Agriculture and Science: The 20th Century] (2009/10), (3) Seminar: Einführung in die Technikgeschichte Chinas seit der Ming-Zeit: Denken, Handeln, Schreiben [Introduction to the history of technology China, since the Ming: Thinking, Acting and Writing], part 1 and 2 (2008/09 WS, 2009 SS), (4) Seminar-Lecture: Consuming Culture: Asia's Modernism (2006/7), (5) Seminar: Naturwissenschaft und Technik in China vom 14. – 17. Jahrhundert: Konzepte, Ideen, Realitäten [Science and Technology in the 14th to 17th Century, China: Concepts, Ideas and Realities] (2007)
- Humboldt University of Berlin 2007
(1) Seminar: Naturwissenschaft und Technik in China vom 14.-17. Jahrhundert: Konzepte, Ideen, Realitäten [Science and Technology in the 14th to 17th Century, China: Concepts, Ideas and Realities] (2007)
- University of Würzburg 1994-2008
Courses taught: (1) Seminar: Foreign kings, remote emperors: Legitimation in Imperial rulership, (2007/08), (2) Seminar: Tourism: Traditions within New Cultures of Interaction (2008), (3) Seminar: Trade and Guilds, (2005/06), (4) Seminar: State monopolies in dynastic China (2005), (5) Seminar: Nationalism in Asia – 20th century

(2004/05 WS), (6) Reading Seminar: War in China: Technologies and Strategies (2004 SS), (7) Reading Seminar: Carts, boats, horses: Transportation and Infrastructure in Medieval China (2003/04 SS), (8) Seminar: The West is strong: Intellectual Climate in China 1875–1922 (2002/03), (9) Lecture-Seminar: Einführung in die Wissenschaftsgeschichte: Mit einem Fokus auf Asiens Technologie [Introduction to the History of Science with a Focus on Asia's Technology] (2001/02), continued 2003 SS, (10) Reading Seminar: Chinesische Enzyklopädien [Chinese Encyclopedia Leishu and Congshu] (1998), (11) Reading Seminar: Classisches Chinesisch: Chengyu [Classical Chinese: Chengyu Stories] (1994, 1995, 1997, 2000), (12) Seminar: Beamten in der Song-Dynastie: Literati-Kultur [Officials of the Song Dynasty: Literati culture], 1994 SS

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