

Dagmar Schäfer, Curriculum Vitae

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

Dagmar Schäfer is the 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 Pfizer Award of the History of Science Society 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, Tianjin University	2018–2021
Guest Professor, School of History and Culture of Science, Shanghai Jiao Tong University	07/2016–present
Professor h.c., History of Science and Technology, Technische Universität Berlin	07/2015–present
Head of Department of East Asian Studies, University of Manchester	01/2012–07/2013
Professor and Chair of Chinese Studies and History of Technology, School for Arts and Languages, University of Manchester	09/2011–07/2015
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, Department of Chinese Studies, University of Würzburg	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	1993

University of Würzburg (*summa cum laude*)

HONORS AND FELLOWSHIPS

Joseph Levenson Book Prize (pre-1900 category) of the Association for Asian Studies <i>The Crafting of the Ten Thousand Things</i>	2013
Pfizer Award of the History of Science Society best scholarly work and outstanding book <i>The Crafting of the 10,000 Things</i>	2012
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	09/2005–10/2005
HWP Scholarship Bavarian state scholarship for outstanding academics	2003–2004
German Research Council (DFG) Grant Dept. of Sinology, University of Würzburg	2001–2004
Academia Sinica, Research Grant, P.R. China, Beijing	09/2000–11/2002
DFG, Research Grant, Taiwan, <i>Ts'ing-hua</i> -University	03/2002–07/2002
Academia Sinica, Research Grant, P.R. China, Beijing	01/2002–02/2002
Post-Doctoral Fellowship, University of Würzburg	1998–2001
DFG, PhD Scholarship	1994–1996
Academic Exchange Scholarship (DAAD) P.R. China, National Zhejiang University Dept. of Chinese History and Journalism	1990–1991
University of Würzburg, Exchange Scholarship P.R. China, National Zhejiang University	1990

RESEARCH GRANTS

Principal Investigator <i>Translation Terroirs – East Asian and European maps between Language, Ritual and Space</i> Research team of three, funded by the DFG	08/2018–07/2021
Project Director <i>Chinese Local Gazetteers: Producing Full Texts and Making Them Open-Access</i> Cooperative research project of MPIWG and Harvard-Yenching Library (HYL), funded by the Chiang Ching-kuo Foundation (CCK) Database Grant	2018–2019

PROFESSIONAL SERVICES

Services to the University

Principal Investigator British Inter-University Centre for Chinese Studies BICC (since 07/2013)
Research Director of the Division for Language-Based Area Studies (since 2012)
Head of the Department of East Asian Studies (2011–2012)

PhD (principal supervisor)

- Qiao Yang: 09/2017 –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
- Kerstin Pannhorst: 09/2017 –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
- Cathleen Paethe: 06/2009 –The Bibliophile Qi Chengye. A Study of Ming Dynastic Book Consumption and Production, Co-supervised by Michael Lackner, DFG-Research Fund – University of Erlangen
- Jia-ou Song: 2012–2014 –Physical Science in Museums: a Comparative Study between the UK and China since 1900, ESRC Grant – University of Manchester
- Johannes Lotze: 2012–14 –In Many Minds: Translators and Interpreters during the Early Ming Era (1368–ca. 1450), Presidential Scholarship – University of Manchester

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 (GDGF)
- 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 (12/2009)

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 POSITIONS

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|--|------------------------|
| <i>Transfers. Interdisciplinary Journal of Mobility Studies</i> | Editor in Chief |
| <i>China Biographical Database (CBDB) at Harvard</i> | Steering Committee |
| <i>Crossroads: An Interdisciplinary Journal of Southeast Asian Studies</i> , special issue <i>History of Science and Technology across the Silk Roads</i> , Brill:Leiden | Guest Editor |
| <i>Transversal: International Journal for the Historiography of Science</i> | Editorial Board Member |

Journal for East Asian Science, Technology, Medicine (EASTM)
Science and Religion in East Asia, Brill: Leiden

Editorial Board Member
Series editor (with
Benjamin Elman and Kim-
Yunk Sik)

Artefacts

Member of the International
Committee

Edition Open Access (MPIWG)

Series editor

MONOGRAPHS

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

Animals Through Chinese History: Earliest Times to 1911. Co-edited with Roel Sterckx & Martina Siebert (Cambridge University Press) (forthcoming 2019).

Threads of Global Desire. With Giorgio Riello & Luca Mola (Boydell & Brewer, 2018)

“Knowledge Spheres: Borderlines and Intersections of Expertise and Knowing in China, Song to Qing” *EASTM* Special issue 38/39 (2014), collaboration of the Independent Research Group D. Schaefer, MPIWG Berlin, and the Research Group Sun Xiaochun, Institute for the History of Science, Chinese Academy of Sciences.

Rice: Global Networks and New Histories. Co-edited with Francesca Bray, Peter Coclanis, Edda Fields-Black (Cambridge University Press, 2015).

Globalisierung und Transnationaler Techniktransfer. With Marcus Popplow, special issue for *Technikgeschichte* 80, 2013.

Cultures of Knowledge: Technology in Chinese History (Leiden: Brill, 2012).

ARTICLES AND CHAPTERS IN BOOKS

Unpacking the Chinese Library. In *Bibliotheca: Humanist Practice in Digital Times*, eds. J. Tresch & P. Gagliardi. (Fondazione Giorgio Cini) (in press)

Introduction: Knowing Animals in China's History with Martina Siebert & Roel Sterckx. In *Animals through Chinese History: Earliest Times to 1911*. Co-edited with Martina Siebert & Roel Sterckx (Cambridge University Press) (in press 2019)

Great Plans: Song Dynastic (960–1279) Institutions for Human and Veterinary Healthcare. Co-author Han Yi. In *Animals through Chinese History: Earliest Times to 1911*. Co-edited with Roel Sterckx & Martina Siebert (Cambridge University Press) (in press 2019)

Kranzberg's Fifth Law. In *Technology's Stories* (2018), 1–7.

Drunken Talk: Political Discourse and Alcohol Consumption During the Northern Song Dynasty (960–1127 CE). In *Reading the Signs: Philology, History, Prognostication; Festschrift for Michael Lackner*, eds. I. Amelung & J. Kurtz (München, Iudicum, 2018), 303–316.

10000 Dinge – Modelle und Technologie im China der Ming (1369–1645)- und Qing (1645–1912)-Periode. In *Wissensaustausch und Modernisierungsprozesse zwischen Europa, Japan und China*, eds. C. Eberspracher, A. Labisch & Li Xuetao (Halle, Leopoldina, 2018), 113–126.

- Review of "China's Transition to Modernity: The New Classical Vision of Dai Zhen by Minghui Hu".*
In *Harvard Journal of Asian Studies*, vol. 78 (1) (2018).
- Editorial: Mobility Studies, a Transdisciplinary Field.* In *Transfers*, vol. 8(1) (2018), p.VII-X.
- Translation history, knowledge and nation building in China.* In *The Routledge Handbook of Translation and Culture*, eds. S.-A. Harding & O. Carbonell Cortes (Routledge, 2018).
- The Historical Roots of Modern Bridges: China's Engineers as Global Actors.* In *Technology and Globalisation: Networks of Experts in World History*, eds. L. Camprubi & D. Pretel (Palgrave, 2018)
- Introduction: Silk in the Pre-Modern World* with Giorgio Riello and Luca Molà. In *Threads of Global Desire*. Co-edited with Giorgio Riello & Luca Mola (Boydell & Brewer, 2018)
- Power and Silk: The Central State and Localities in State-owned Manufacture During the Ming Reign (1368–1644).* In *Threads of Global Desire*. Co-edited with Giorgio Riello & Luca Mola (Boydell & Brewer, 2018)
- China und 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.* In *Isis—A Journal of the History of Science Society*, vol. 108 (3) (2017), 621–28
- Science in the Medieval East.* In *Oxford Illustrated History of Science*, ed. Iwan Rhys Moreus (Oxford University Press, 2017), 108–142.
- 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: Vol.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.* In *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* 80.1 (2013), 3–11.
- Formen und Funktionen von Verschriftlichung im flossischen 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 & and E. Fülus. (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

- Minghui Hu, *China's Transition to Modernity: The Next Classical Vision of Dai Zhen* (Seattle and London: University of Washington Press, 2015), *Harvard Journal of Asiatic Studies* (2018) (78.1).
- 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

"Politics and Scientific Change in Dynastic China" Hong Kong University, Hong Kong, 20/03/18

"Eurasian Modes of Communication: Studying Material and Visual cultures of the heavens in Europe, Aisa and Africa", Panel: "Empires, Exchange and Civilizational Connectivity in Eurasia" *ENIUGH, Fifth European Congress on World and Global History "Ruptures, Empires, Revolutions"*, Budapest 2/09/2017

"The Nominal Group – Things in Ming-Chinese Local Gazeteers (Difangzhi)", Technische Universität 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", Princeton University, 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 Gazetters and named entities recognition. Grand corpuses of Classical Chinese", University of 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", Freie Universität Berlin, Germany, 24/11/2015.

"Technik und Erkenntnis: Oder warum Organisieren Wissen schaf(f)t" joint annual meeting of the GWG DGGMNT on the subject of "Praktisches Wissen", 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", Hebrew University of 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”, University of Cologne, Germany, 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 Conference*, Potsdam, Germany 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, Norway, 28/01/2015.
- Colloquium of Prof. S. Conrad, *Technologie und Innovation in der Globalgeschichte*, Freie Universität 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, Germany, 16/12/2014.
- Conference Artefacts - Knowledge - Tools: On Material Cultures of Translation, *Concepts of capability in Ming and Qing scholarly and bureaucratic literature*, Völkerkundemuseum Zurich, Switzerland, 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*, Vienna, Austria, 09/10/2014.
- “Wissenstransfer und Modernisierungsprozesse zwischen Europa und Ostasien”, *10.000 Dinge – Technologie im China des 17. Jahrhunderts*, Wissenschaftshistorische Seminare Leopoldina, Halle, Germany, 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, Italy, 23/09/2014.
- “Moving Asia on the Move” (with Stephanie Ponsavady), Panel: “Frontiers of Mobility Studies: A Transfers Perspective”, *SPINOFFS OF MOBILITY: Technology, Risk & Innovation*, Philadelphia, USA, 21/09/2014.
- “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, Italy, 10/09/2014.
- “Qing Dynastic Tools of the Trade”, 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, *EUNIGH Conference*, Paris, France, 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, Germany, 03/07/2014.
- “Dark Lights, Bright Sites: Historical Research on Science, Technology and Medicine in East Asia” *Studies of Knowledge in Eurasia and Africa: Issues of Methodology and Future Perspectives*, MPIWG Conference, Berlin, Germany, 30/06/2014.
- “Identities or Methods: How to Discuss the Historical Dynamics of Scientific Knowledge Development”, *Conference on the Future of World and Global History*, Warwick, U.K., 23/05/2014.
- “Näherungsweise Wissenschaften: Ideen zu Wissen und Handeln im Ming-zeitlichen 17. Jahrhundert”, Hannover, Institut für Philosophie/ZEWW, Germany, 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”, Freie Universität Berlin, 31/01/2014.
- “Classified by Locality: About the Origin and Identity of Matter and Things”, *Materialität und kultureller Transfer – Epistemische Verflechtungen in der Erzeugung globalen Wissens*, 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, Israel, 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, Israel, 05–06/01/2014.
- “Organisation and Skills in Qing Crafts”, *Science and Religion in East Asia: The Second Templeton Conference*, Seoul National University, South Korea, 12/12/2013.
- “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, U.K., 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: Selva 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, Ramón Areces Foundation, Madrid, Spain, 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, South Africa, 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, Israel, 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, U.K., 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, Germany, 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 of the TU Berlin and MPIWG on the subject of *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, Germany, 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* Conference, London, U.K., 04/2011.
- “Administrative and Colonial Practices in Qing-Ruled China – Lifanyuan and Libu revisited”, workshop at the conference *Technological Knowledge Circulation during the Qing and the Use of Geographical Analysis Tools*, Max-Planck-Institut für Ethnologische Forschung, Halle, Germany, 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”, PublicLecture *Euro-Asian Knowledgescapes: Concepts and Models of Technological and Scientific Knowledge Transfer*, University Research Priority Program (URPP) Asia and Europe, University of Zurich, Switzerland, 03/2011.
- “Knowledgescapes: Geographical Analysis Tools for Research on the Spatiotemporal Relation of Knowledge”, in the workshop “Transliteration and Transfiguration of Cultural Traditions: Archaeology, Medical Knowledge, Art and Science”, MPIWG, Berlin, 03/2011.
- “Culture and Communication: Practical Knowledge and Material Production in Imperial China”, invited talk, Boston College, USA, 02/2011.
- “The Properties of Light and Shadow: Colour in the Analyses of Nature in 17th-Century Ming/Qing China”, TU Berlin, 18/01/2011.
- “Intermediaries: Tao Zongyi (1316–1399) and the Yuan Dynasty”, University of Würzburg, Germany, 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, France, 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, Switzerland, 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 of the University of Zurich, 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, Switzerland, 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, USA, 03/2009.
- “Mobilität und Lokalität im China der späten Ming-Zeit (16/17. Jahrhundert)“, invited talk, University of 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, Germany, 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, Sweden, 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, USA, 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, Germany, 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, University of 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, Cologne, Germany, 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*, Munich, Germany, 08/2005.

- “Kulturmanagement im Kontext: Greater China und Wirtschaftskontakte über Auslandschinesen, Aussichten für die Druckindustrie“, einwöchiges Seminar, IPW-4wPR engineering office of Peter Wendt, Kleinrinderfeld, Germany, 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 Biannual 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“, University of Tübingen, Germany, 03/2003.
- “Seidenmanufakturen während der Ming-Dynastie – Organisation und Originalität“, paper presented at the *Graduate Conference on China*, Cologne, Germany, 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 National Tsing Hua University, colloquium by Prof. Ho Peng Yoke (He Bingyu), Hsin-chu, Taiwan, 04/2002.

CONFERENCE PANELS AND WORKSHOPS

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| Organizer: Panel: “Empires, Exchange and Civilizational Connectivity in Eurasia” <i>Fifth European Congress on World and Global History: Ruptures, Empires, Revolutions</i> , Budapest. | 02/09/2017 |
| Chair: Keynote: “Warum Materielle Kultur erforschen?” at <i>Materielle Kultur: erschließen, bewahren, erforschen</i> , Bundesministerium für Bildung und Forschung in Berlin | 29/05/2017 |
| Organizer: <i>Animals in Asia</i> (funded by BICC, AHRC 10.000 £), international conference at the University of Manchester. | 24–26/01/2013 |
| Co-Organizer (together with the Gesellschaft für Technikgeschichte 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]“, MPIWG, (10,000 €). | 03–05/06/2011 |
| Co-Organizer (with G. Y. Shen): “Ritual as Technology“, MPIWG. | 12–14/05/2011 |
| Chair and Discussant at the Panel “Knowing Places: Cultural Geographies of Song China” at the Annual Meeting of the Association for Asian Studies (AAS), Honolulu. | 04/2011 |
| Co-Organizer (with F. Bray): “Commodities and Anti-Commodities: Rice in Early Modern Thought“, MPIWG. | 24–26/03/2011 |
| Co-Organizer (with L. Molà): “Historical Systems of Innovation: The Culture of Silk in the Early Modern World (14–18th Century). A Cross-Cultural Workshop“, MPIWG. | 17–18/12/2010 |
| Organizer: “Scholars, Craftsmen and Technology: Defining Experts and Expertise in Chinese Culture“, Workshop, MPIWG. | 04–09/10/2010 |
| Co-Organizer (with Partner Group IHNS): “Borderlines and Intersections: Exploring Science and Society in Song China“, Workshop, Beijing, China. | 12–15/04/2010 |
| Organizer: “Technological Cultures: Themes and Methods in the History of Technology“, Colloquium Series, MPIWG. | 01–11/2010 |

Co-Organizer (with M. Hofmann): "Status and Skills – The Portrayal of Individuals in Chinese Historiography, 10th–18th Century", Workshop, MPIWG.	05–05/09/2009
Chair and Organizer: Session "Appropriating Crafts, 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.	03/2009
Discussant: Panel: "Practical and Learned Culture in Premodern and Early Modern Europe" at the Annual Meeting of the Society for the History of Technology (SHOT), Lisbon.	10/2008
Co-Organizer (co-funded by the Palace Museum 20,000 RMB): "History of Exchange of Craft Techniques between the Imperial Court and the Folk", Workshop, Research Department, Palace Museum, Beijing.	25–27/04/2008
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", 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.	03–09/09/2006

TEACHING EXPERIENCE

University of Hong Kong (2017–2018)

- (1) Cultures of Innovation in East Asia's History: with a Focus on Scientific, Medical, and Technological Change, co-taught with Angela Ki Che Leung

Freie Universität Berlin (2017–2018)

- (1) China – eine etwas andere Entwicklungsgeschichte

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

Technische Universität 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

Technische Universität 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 Universität zu 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