

Shih-Pei Chen

Curriculum Vitae

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Institutional address: Boltzmannstrasse 22, 14195 Berlin, Germany

Telephone: +49 157 52615390

Email: schen@mpiwg-berlin.mpg.de

Shih-Pei Chen received her Ph.D. degree in Computer Science from National Taiwan University in 2011. During her Ph.D., Shih-Pei managed the computer science lab of Digital Archives and Automated Reasoning and assisted graduate students to develop digital humanities technologies for historical studies. She also worked closely with historians, librarians, and other computer technologists and acted as a liaison between them. Through the close collaboration, Shih-Pei gained valuable experiences on issues regarding protocols for digitizing historical documents and building digital tools that are meaningful and helpful for historians. She is specialized in analyzing historical documents on large scales using technologies such as text mining, visualization, temporal, geospatial, and citation analysis. After her Ph.D., Shih-Pei moved to Harvard University for her postdoctoral research. There, she managed the China Biographical Database project (CBDB) to assist its long-term goal to include all significant biographical material from China's historical records and to make the contents available to the world. She was also responsible for text-mining and technical tasks for the project, including the development of APIs to allow technical interoperability between CBDB and other digital projects around the world. Shih-Pei joined the Max Planck Institute for the History of Science (MPIWG) in January 2014 and has been working with scholars to develop projects that explore the evolving methodology for conducting historical research using digitized materials and digital tools.

EDUCATION

Ph.D. in Computer Science, National Taiwan University, Taiwan	2011
Dissertation: "Information Technology for Historical Document Analysis"	
M.S. in Computer Science, National Taiwan University, Taiwan	2003
B.S. in Applied Mathematics, National Chiao-Tung University, Taiwan	1998

ACADEMIC POSITIONS

Digital Content Curator, Department III, Max Planck Institute for the History of Science	2014 – Present
Postdoctoral researcher, Fairbank Center for East Asian Research, Harvard University	2011 – 2013

PROJECTS AND PROFESSIONAL EXPERIENCES

Project manager for the China Biographical Database Project (CBDB)	2011 – 2013
Technical consultant, Research Center for Digital Humanities, National Taiwan University	2008 – 2011
Laboratory manager for the Lab of Digital Archives and	2003 – 2011

Automated Reasoning, Department of Computer Science,
National Taiwan University
IT developer for the Digitization Project of Taiwan-Related
Government Archives of Ming and Qing Dynasties,
National Taiwan University Library
2004 – 2005

PUBLICATIONS

Articles and Chapters in Books

- S.-P. Chen**, H.I. Ho, “Transforming historical texts into data for computerized analysis,” in Chu-Ren Huang ed. *Digital Humanities: Bridging the Divide* (Series on Humanities in Asia), Springer. (Upcoming 2016)
- W.H. Pang, H. Cheng, **S.-P. Chen**, “From Text to Data: Extracting Posting Data from Chinese Local Gazetteers,” in up coming volume of the Series on Digital Humanities, J. Hsiang, Eds. Taipei: National Taiwan University Press. (Upcoming 2015)
- S.-P. Chen**, J. Hsiang, H.-I. Ho, H.-C. Tu, “On Reconstructing the Citation Relations among the Court Documents of Qing China,” in *New Eyes for Discovery: Foundations Imaginations of Digital Humanities* (Series on Digital Humanities), J. Hsiang, Eds. Taipei: National Taiwan University Press, 2011, pp. 85-116.
- S.-P. Chen**, H.-C. Tu, J. Hsiang, “The Document Processing Workflow of Taiwan History Digital Library,” in *From Preservation to Knowledge Creation: The Way to Digital Humanities* (Series on Digital Humanities), J. Hsiang, Eds. Taipei: National Taiwan University Press, 2011, pp. 51-66.
- S.-P. Chen**, J. Hsiang, H.-C. Tu, and M.-C. Wu, “On Building a Full-Text Digital Library of Historical Documents,” in *Asian Digital Libraries. Looking Back 10 Years and Forging New Frontiers* (Lecture Notes in Computer Science, vol. 4822), D. Goh, T. Cao, I. Sølvberg and E. Rasmussen, Eds. Berlin: Springer, 2007, pp. 49-60.

Journal Articles

- J. Hsiang, **S.-P. Chen**, H.-I. Ho, H.-C. Tu. “Discovering Relationships from Imperial Court Documents of Qing China”. *International Journal of Humanities and Arts Computing* 6.1-2 (2012): 22-41. doi:10.3366/ijhac.2012.0036.
- S.-P. Chen**, Y.-M. Huang, J. Hsiang, H.-C. Tu, H.-I. Ho, and P.-Y. Chen, “Discovering Land Transaction Relations From Land Deeds Of Taiwan”. *Literary and Linguistic Computing* 28.2 (2012): 257-270. doi:10.1093/lc/fqs063.

INVITED TALKS AND CONFERENCE PRESENTATIONS

- “Mapping Local Knowledge of Historical China and the Use of GIS,” in panel ‘Mapping Written Topographies: Critical Reflections on Close Reading and GIS,’ Annual Conference for the Association for Asian Studies, Chicago, March 2015.
- “From Tagging to Mapping Historical Chinese Data,” in panel ‘Digital and Computational History of Science: Tools, Platforms, Networks, and Corpora,’ History of Science Society Annual Meeting, Chicago, November 2014.
- “Turning Texts into Data: the Chinese Local Monographs Project at MPIWG,” Oriental Institute, Czech Academy of Sciences, workshop ‘Digital Sinology and Taiwanese Studies,’ October 2014.
- “From Text to Data: the China Biographical Database and the Local Materiality Project at MPIWG,” Universität Stuttgart, workshop ‘Quantitative Literaturwissenschaft in

- Systematischer und Historischer Perspektive,' September 2014.
- "Integrating Humanities Research, E-resources, and Digital Tools: Examples from Researching and Teaching in Sinology," National Central Library, Taipei, March 2014.
- "Text Extraction using Regular Expressions," Rice University, workshop "Digitization in the Humanities Workshop," April 2013.
- "The China Biographical Database. Modeling Life Histories: from Anecdote to Data," in panel 'Computational Tools and Digital Resources for Chinese History and Literature,' Annual Conference for the Association for Asian Studies, San Diego, March 2013.
- "Modeling Chinese Biography: The China Biographical Database (CBDB)," East Asia Library of Yale University, January 2013.
- "A RegEx Machine," Harvard University, conference 'New Directions in Analyzing Text as Data,' October 2012.

GRANT APPLICATIONS

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| Project "Research Infrastructure for the Study of East Asia" for Horizon 2020 Call for e-Infrastructures for virtual research environments. (Main contributor and proposal coordinator.) | 2015 |
| Project "Automating Data Extraction from Chinese Texts" for Digging into Data Challenge Round 3 with role main contributor and coordinator. Project granted in January 2014. (Main contributor and proposal coordinator.) | 2013 |

WORKSHOPS ORGANIZED

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| Co-organizer: THATCamp at History of Science Society Annual Meeting 2015 (in progress) | November 2015 |
| Organizer: "Chinese Local Gazetteers: Historical Method and Computerized Data Collection and Analysis" at Max Plank Institute for the History of Science | April 2015 |
| Organizer: "The Brown Bag DH Workshop series" at Max Plank Institute for the History of Science | Monthly event starting March 2015 |
| Organizer: "The Historian's Craft in the 21st Century Taiwan Workshop" at National Taiwan University | November 2012 |

AWARDS AND HONORS

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| Bursary Award, Digital Humanities Conference | 2009 |
| Student Travel Grant, National Science Council, Taiwan | 2009 |
| Student Travel Grant, National Science Council, Taiwan | 2007 |

LANGUAGES

Fluent in Chinese (native). Good in reading classical Chinese. Speaking, reading, and writing knowledge in English. Beginner's level in German.