

School of History and Culture of Science

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I . Introduction to Disciplines and Main Research Fields

The School of History and Culture of Science has a primary discipline doctoral program in history of science and technology, and a master program in philosophy of science and technology. Its primary discipline, history of science and technology, has been top three on the discipline ranking of the Ministry of Education of China in 2012, and has additionally become the first-rate discipline (category B) in Shanghai. After years of development, the School of History has great achievements in establishing disciplines, cultivating students and promoting academic researches. The school has profound academic accumulation and is remarkably competitive in such areas as History of Astronomy, History of Physics, History of Metrology, History of Mathematics, Philosophy of Science and Technology, Sociology of Science, Communication of Science, etc.

Research Fields of the School of History and Culture of Science

Research field	Specific research contents
History of Astronomy	Astronomy and Society in Ancient China; Communication and Comparison of Chinese and Western Astronomy; Astrochronology; Astronomy in Buddhist Scripture
History of Physics	History of Physical Thoughts in Ancient China; History of Metrology in China; History of Modern Physics in China
History of Mathematics	Communication of Mathematics along The Silk Road; Translation and Dissemination of Western Mathematics Books in Ming and Qing Dynasty; Dissemination and Influence of Chinese Mathematics in Japan
Science and Technology and Society	Criticism and Theoretic Research on Science and Technology Policy; Research on Culture and Dissemination of Science; Practical Sociology of Science
History of Environment and Disaster	History of Environment; History of Disaster; History of Marine Environment; History of Disease

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Research field	Specific research contents
Philosophy of Science and Technology	Philosophy of Science; Philosophy of Technology; Cognitive Philosophy

II . Faculty

1. Overview of the Faculty

As the predecessor of the School of History and Culture of Science, the Department of History and Philosophy of Science of Shanghai Jiao Tong University, was established in March 9th 1999. It is the first department of history and philosophy of science in Chinese universities. The establishment of this department has played a role of model in the institutionalization of the discipline, history of science and technology in Chinese universities. After 13 years of development, the Department of History and Culture of Science of SJTU has gathered a high level academic staff consisting of 15 people, among which there are two distinguished professors of SJTU, five members of the New Century Talents Program supported by Ministry of Education of China, seven doctoral supervisors, one member of the Leading Talents Program of Shanghai and one Shanghai Shuguang Scholar.

2. Renowned Professors

No.	Name	Positions	Research Areas
1	JIANG Xiaoyuan	Distinguished Professor of SJTU; member of the Leading Talents Program of Shanghai	History of astronomy; Culture of science
2	GUAN Zengjian	Distinguished Professor of SJTU; vice director of Chinese Society for the History of Science and Technology	History of Chinese physical thought; History of metrology
3	JI Zhigang	Professor	History of mathematics
4	NIU Weixing	Professor; Shanghai Shuguang Scholar; member of the New Century Talents Program of MEC	History of astronomy; Communication of Science
5	LI Xia	Professor; member of the New Century Talents Program of MEC	Sociology of science
6	CHEN Yexin	Professor; member of the New Century Talents Program of MEC	History of environment; History of disaster
7	LI Yushang	Professor; member of the New Century Talents Program of MEC	History of marine environment; History of disease

III. Achievements

From 2009 to 2014, the School of History and Culture of Science has newly presided over more than 30 provincial and ministerial projects. The major project of National Social Science Fund, *Collation and Research of the Historical Documents in the Culture and Science Communication between China and Foreign Countries*, has gained rolling aid. This project is the first one of its category to gain the rolling aid in SJTU. The Chinese academic translation program of the National Social Science Fund, *History of Metrology in China*, is the first project of its category in SJTU.

The staff of the school has published more than 200 high-level papers in major domestic and foreign academic journals, and has published more papers than most of the scholars in this field of China in authoritative journals, such as *Studies in the History of Natural Sciences*. *Xinhua Digest* has also reprinted many papers of our faculty. The staff has also performed greatly on publishing academic books. In recent five years, the staff has published more than 20 books, many of which have made distinct influence. For instance, *Cultural History of Science*, by JIANG Xiaoyuan, has won many prizes including Chinese Great Books in 2013 and the first prize of 13th Shanghai Book Award in 2014. *History of Metrology in China*, by GUAN Zengjian, has gained the aid from the Chinese academic translation program of the National Social Science Fund, and has become the first work of its category in SJTU. *Commented Translation of KAO Gong Ji*, by GUAN Zengjian and Konrad Herrmann, won the title of the Greatest 10 Books of Shanghai Jiao Tong University Press in 2014. *History of Astronomy*, by NIU Weixing, won the second prize of Shanghai Book Award from 2009 to 2011. *Fifteen Lectures on History of Science*, a textbook written by the faculty of the school, has been used by many courses of domestic universities, and has won the second prize of Shanghai Universities Outstanding Textbook Award in 2011.

IV. International Collaboration

The School of History and Culture of Science enjoys a high international reputation. It keeps well collaboration with international famous research institutes in its area. Thus, it focuses on the base of ourselves and has substantially collaborated with these famous institutes in personnel exchange, students' cultivation, and united research. The school has more students studying for doctorates in international leading universities than most of its domestic counterparts. The school is collaborating with famous institutes including Needham Research Institute in Cambridge Britain, Center for History of Science CNRS, Center for History of Science in China of TUB, Department of History and Sociology of Science UPenn, Center for History of Mathematics Kyoto University, The Unit for HPS of USYD, The Department of Egyptology and Assyriology of Brown University, and Max-Planck Institute for the History of Science. The school also has made great achievements in students exchange, academic

collaboration and united cultivation of graduates. Additionally, the school signed *The Framework Agreement of Academic Collaboration and Communication between the Department of HPS of SJTU and the Unit for HPS of USYD* as well as hosted The 10th International Conference on the History of Science in East Asia, The International Symposium of the Global Perspective on History of Science in China, The Solstice International Symposium, and The International Symposium of the History of Mathematics in East Asia. The school has collaborated with the Society of Historical Metrology of Japan to establish a discussion session for history of metrology twice in International Congress of History of Science successively. Also, the staff of the school has set sessions for many times in the international symposiums of history of science in China, and it is unanimously commended and highly-praised by the domestic and foreign academia.