

Curriculum Vitae



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Personal Information:

Gender: Male

Date of Birth: January 27, 1976 (Chinese Lunar Calendar)

Family Status: Married, one child

Nationality: P. R. of China

Current Position:

Chief Information Officer, Associate Professor, NAOC, 2006.1-

Education:

Ph.D. in Astrophysics, NAOC, Beijing, 2003.6

Concentrations: Virtual Observatory, Grid Technology, Web Services, Scientific Databases

Thesis: System Design of Chinese Virtual Observatory

Advisor: Prof. Yongheng ZHAO

M.Sc. in Astrophysics, Beijing Astronomical Observatory, Beijing, 2000.6

Concentrations: Astronomical Databases, Galactic Abundances

Thesis: Setup of SAGE Astronomical Database and Statistical Analyses of Galactic Abundances

Advisor: Prof. Gang ZHAO

B.S.E. in Mechanical Engineering, Hebei University of Technology, Tianjin, 1997.6

Research Interests:

Astroinformatics, Virtual Observatory, Grid Technology, Astronomical Databases, Astronomical Data Center, Data Processing and Analysis, Galactic Structure and Evolution, Stellar Abundance

Work Experiences:

- Associated Professor, National Astronomical Observatory of China, 2006.1-

- Lecturer, National Astronomical Observatory of China, 2003.6-2005.12

Visiting Experiences:

- Visiting Scientist, Johns Hopkins University, USA, 2007.11.26-2007.12.24
- Lecture, International School for Young Astronomers 2007, International Astronomical Union (IAU), Malaysia, 2007.3.5-2007.3.23
- Invited Professor, Strasbourg astronomical Data Center (CDS), Strasbourg Astronomical Observatory, France, 2005.6-7

Professional Functions:

- CIO, National Astronomical Observatory of China. 2006 -
- Project Manager, Chinese Virtual Observatory. 2002 -
- Project Manager, World Data Center for Astronomy. 2001 -
- Executive Member, International Virtual Observatory Alliance. 2002 -
- Deputy Director, Astronomical Terms Committee, Chinese Astronomical Society, 2007 -
- Deputy Director, NAOC-TJU Joint Laboratory in AstroInformatics, 2008 -
- Lead, Data Management Subsystem, LAMOST. 2002 -
- Chair, Youth Working Committee, Beijing Astronomical Society, 2010 -
- Council Member, Beijing Astronomical Society, 2005 -
- Scientific Editor, Astronomical Research & Technology - Publications of National Astronomical Observatories of China, 2008 -
- Academic Advisors, WorldWide Telescope Academic Program, Microsoft Research. 2009 -
- Editor, International Virtual Observatory Alliance Newsletter. 2011.4 -
- Member, IAU Division XII Commission 5 Documentation & Astronomical Data. 2009.8 -
- Member, The IAU Working Group on Astronomical Data. 2008 -
- Member, Data at Risk Task Group, CODATA, 2011.4 -
- Member, Earth and Space Science Data Interoperability Task Group, CODATA, 2011.4 -
- Member, New Terms Committee, China National Committee for Terms in Sciences and Technologies, 2009.4 -
- Executive Member, Federation for Internet-based Public Science Education, CAS. 2005 - 2009
- Staff, Network Administrator, LAMOST. 2000 - 2005

Professional Societies:

- International Astronomy Union (IAU), 2009.8-
- Chinese Astronomical Society, 2000-
- Beijing Astronomical Society, 2000-

Honors and Awards:

- Advanced Individual, China National Committee for Terms in Sciences and Technologies, Beijing, 2010
- Science & Technology Nova, Beijing Municipal Science & Technology Commission,

Beijing, 2007

- Astronomical Education Award, Chinese Astronomical Society, Shanghai, 2006
- Director Scholarship, Chinese Academy of Science, Beijing, 2004
- Astronomical Education Award, Beijing Astronomical Society, Beijing, 2002
- Graduate Scholarship, Chinese Academy of Sciences, Beijing, 2002
- Yongling LIU Scholarship, Chinese Academy of Sciences, Beijing, 2000

Skills:

Java, XML, PHP, SQL, C, FORTRAN, HTML, JavaScript, Shell/UNIX

Grid and Web Services (Globus Toolkit, OGSA)

Database Administration (MySQL, miniSQL, Oracle)

System Administration (Solaris, Linux, Windows)

Network Administration

Data Mining

Languages:

Fluent in English

Hobbies: Photography, Driving

Publications:

Published as first author:

1. "Statistical Analysis of Fe Abundance Gradients in the Galaxy", Chenzhou CUI, Gang ZHAO, Yongheng ZHAO & Jianrong SHI. 2001, Science in China (Series A), 44 (1), 120-127
2. "Virtual Observatory and Grids", Chenzhou CUI & Yongheng ZHAO. 2002, in: Jiuling SUN & Huizhong SHI (eds.), *Scientific Data: Management and Share*, 272-290. Beijing: Chinese Science and Technology Press
3. "Technology progress of Virtual Observatory ", Chenzhou CUI, Yongheng ZHAO, Gang ZHAO & Yanxia ZHANG. 2002, PABei, 20 (4), 302-311. 2002PABei..20..302C
4. "Abundance Gradients in the Galactic Disk", Chenzhou CUI, Yuqin CHEN, Gang ZHAO & Yongheng ZHAO. 2003, Science in China (Series G), 46 (1), 52-61
5. "Integrating Existing Software Toolkits into VO System", Chenzhou Cui, Yongheng Zhao, Xiaoqian Wang, Jian Sang, Ze Luo. 2004, Astronomical Telescopes and Instrumentation 2004 (SPIE Conference). 2004SPIE.5493..233C
6. "Architecture of Chinese Virtual Observatory", Chenzhou Cui, Yongheng Zhao. 2004, Astronomical Research and Technology, 1 (2), 140-151. 2004PNAOC...1..140C
7. "Research and Development Strategy and Focuses of Chinese Virtual Observatory ", Chenzhou Cui, Yongheng Zhao. 2004, Astronomical Research and Technology, 1 (3), 203-209. 2004PNAOC...1..203C
8. "VOFilter, Bridging Virtual Observatory and Industrial Office Applications", Chen-zhou Cui, Markus Dolensky, Peter Quinn, Yong-heng Zhao, Françoise Genova. 2006, ChJAA, 6 (3), 379-386. 2006ChJAA...6..379C
9. "SkyMouse: A smart interface for astronomical on-line resources and services", Chen-Zhou CUI, Hua-Ping SUN, Yong-Heng ZHAO, Yu LUO & Da-Zhi QI. 2008, Chinese Science Bulletin, 53 (10), 1479-1483
10. "Search and Location of FITS Data Files", Chen-Zhou CUI, Wen LI, Ce YU, Zhen XU & Yong-Heng ZHAO. 2008, PNAOC, 5 (2), 116-123
11. "A VO-driven Astronomical Data Grid in China", Chen-Zhou CUI, Bo-Liang HE, Yang YANG, Yong-Heng ZHAO. 2009. In: Astronomical Data Analysis Software and Systems XIX, ASP Conference Series, Vol. XXX, 2009. Y. Mizumoto, K.-I. Morita, and M. Ohishi, eds. In print
12. "VIRTUAL OBSERVATORY: TOOLS AND TECHNIQUES FOR ASTRONOMICAL RESEARCH", translated by Chen-Zhou CUI, et al., 2010, First Edition, Beijing, Chinese Science and Technology Press. Original: "THE NATIONAL VIRTUAL OBSERVATORY: TOOLS AND TECHNIQUES FOR ASTRONOMICAL RESEARCH", Matthew J. Graham, et al., 2008, First Edition, ASP
13. "Taking Advantages of Advanced Information Technologies for New Academic Glossary Item Collection", Chen-Zhou CUI. 2010, China Terminology, 3, 19-21
14. "Design and Implementation of a New Version of the Website 'Glossary of Astronomical Terms'", Chen-Zhou CUI, Heng YU, Yu-Lin BIAN. 2011, PNAOC, 8(2): 178-184

Published as second author:

1. "Classification of AGNs from Stars and Normal Galaxies by Support Vector Machines", Yanxia ZHANG, Chenzhou CUI & Yongheng ZHAO. 2002, in: Jean-Luc Starck & Fionn D. Murtagh (eds.), *Astronomical Data Analysis II*, Proc. of SPIE, 4847, 371-178. 2002SPIE.4847..371Z
2. "Astronomy education resource gateway design based on the Virtual Observatory", Gaochao LIU, Chenzhou CUI, Xiaoping ZHENG, Yongheng ZHAO. 2004, PNAOC, 1 (2), 133-139. 2004PNAOC...1..133L
3. "Integrating legacy software toolkits into China-VO system", Wang Xiao-Qian, Cui Chen-Zhou, Zhao Yong-Heng. 2005, PNAOC, 2: 293. 2005PNAOC...2..293W
4. "Construction of the Sky Node system for Chinese Virtual Observatory", Liu Bo, Cui Chen-Zhou, Zhao Yong-Heng. 2006, PNAOC, 3, 355. 2006PNAOC...3..355L
5. "Resource Information Management in Chinese Virtual Observatory", LI Chang-Hua, CUI Chen-Zhou, LI Lian & ZHAO Yong-Heng. 2008, PNAOC, 5 (2): 124-129
6. "Uniform Access to Astronomical Web Services and its Implementation in SkyMouse", Hua-Ping SUN, Chen-Zhou CUI and Yong-Heng ZHAO. 2008, PNAOC, 5 (2): 130-136
7. "Design and Implementation of a FITS File Manager", Dong-Wei FAN, Chen-Zhou CUI, Yong-Heng ZHAO. 2011, PNAOC, 8(3): 306-314

Published as third or later co-author:

1. "Data Mining and Knowledge Discovery in Database of Astronomy", Yanxia ZHANG, Yongheng ZHAO & Chenzhou CUI. 2002, PABei, 20 (4), 312-323. 2002PABei..20..312Z
2. "The International Virtual Observatory Alliance: recent technical developments and the road ahead", P.J. Quinn, D. Barners, I. Csabai, C. Cui, et al. 2004, *Astronomical Telescopes and Instrumentation 2004* (SPIE Conference). 2004SPIE.5493..137Q
3. "Data Access Service of China-VO ", Jian Sang, Yongheng Zhao, Chenzhou Cui. 2004, *Astronomical Research and Technology*, 1 (3), 216-228. 2004PNAOC...1..216C
4. "Design and implementation of China-VO Ephemeris computing service based on web services". TIAN Hai-Jun, ZHAO Yong-Heng, CUI Chen-Zhou & ZHENG Xiao-Ping. 2007, PNAOC, 4 (3): 283-287
5. "The Design and Implement of VO- DAS Registry". Yong LU, Chao LIU, Chen-Zhou CUI, Yong-Heng ZHAO. 2007, PNAOC, 4(4): 355-359
6. "Integrated Access of Distributed and Heterogeneous Astronomical Data Resources". Chao LIU, Hai-Jun TIAN, Dan GAO, Yang YANG, Yong LU, Chen-Zhou CUI and Yong-Heng ZHAO. 2008, PNAOC, 5 (2): 145-155
7. "The Design and Implement of Client System of Virtual Observatory Data Access Service", Yang YANG, Chao LIU, Hai-Jun TIAN, Chen-Zhou CUI & Yong-Heng ZHAO. 2008, PNAOC, 5 (3): 234-240
8. "A Paralleled Large-Scale Astronomical Cross-Matching Function", ZHAO Qing, SUN Ji-zhou, YU Ce, CUI Chen-zhou, Lv Li-qiang, *International Conference on Algorithms and Architectures for Parallel Processing (ica3pp) 2009*, LNCS5574: p604~614, Springer (EI: 20093912332041)
9. "Parallel massive data oriented astronomical cross-match", Qing ZHAO, Ji-Zhou SUN, Ce YU, Chen-Zhou CUI, Jian XIAO. 2010, *Journal of Computer Applications*, 30 (8), 2056-2059, 2206

10. "Distributed astronomical cross-match based on MapReduce model", Qing ZHAO, Ji-Zhou SUN, Jian XIAO, Ce YU, Chen-Zhou CUI, Xu LIU, AoYUAN. 2010, *Application Research of Computers*, 27 (9), 3322-3325
11. "Design and Implementation of Job Scheduling of Virtual Observatory Data Access System (VO-DAS)", TIAN Hai-jun, LIU Chao, GAO Dan, YANG Yang, LU Yong, CUI Chen-zhou, ZHAO Yong-heng, ZHENG Xiao-ping. 2011, PNAOC, in print
12. "Improved Parallel Processing Method for High-Performance Large-Scale Astronomical Cross-Match", Qing ZHAO, Ji-Zhou SUN, Ce YU, Chen-Zhou CUI, Jian XIAO, Xiao ZHANG. *Journal of Tianjin University (English Edition)*, in print

Conference proceedings and abstracts:

1. "Grid Based Chinese Virtual Observatory System Design", Chenzhou CUI, Yongheng ZHAO. 2003, *Large Telescopes and Virtual Observatory: Visions for the Future*, 25th meeting of the IAU, Joint Discussion 8, 17 July 2003, Sydney, Australia. 2003IAUJD...8E..11.
2. "The Most Popular Astronomical Web Server in China", Chenzhou CUI, Yongheng ZHAO. 2003, *Effective Teaching and Learning of Astronomy*, 25th meeting of the IAU, Special Session 4, 24-25 July, 2003 in Sydney, Australia, meeting abstract. 2003IAUSS...4E..91.
3. "SkyMouse, An Integrated On-line Astronomical Information Access System", Chenzhou CUI, Huaping Sun, Yongheng Zhao. 2006, *The Virtual Observatory in Action: New Science, New Technology, and Next Generation Facilities*, 26th meeting of the IAU, Special Session 3, 17-18, 21-22 August, 2006 in Prague, Czech Republic, SPS3, #55. 2006IAUSS...3E..55C
4. "Worldwide R&D of Virtual Observatory", Chen-Zhou CUI, Yong-Heng ZHAO. 2008, In: W.J.Jin, I. Platais & M.A.C. Perryman, eds. *A Giant Step: from Milli- to Micro-arcsecond Astrometry*, Proceedings of the International Astronomical Union (2007) Vol. 3 Symposium S248, 2008, 563-564
5. "Science Data Based Astronomy Education", Cui-Lan QIAO, Chen-Zhou CUI, Xiao-Ping ZHENG, Yan XU. 2010, In: Venkatesh Mahadevan and G. S. Tomar, eds. 2010 2nd International Conference on Education Technology and Computer (ICETC 2010). June 22-24, 2010, Shanghai China. Vol. 3 proceedings, 519-523
6. "VO-oriented Astronomical Data Grid", Chen-Zhou CUI, Bo-Liang HE, Yong-Heng ZHAO. 2010, IN: Scientific Database office, CAS,eds. 2010. *Proceedings of Scientific Databases and Information Technologies (2010) Vol. 10*, 195-202

References:

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