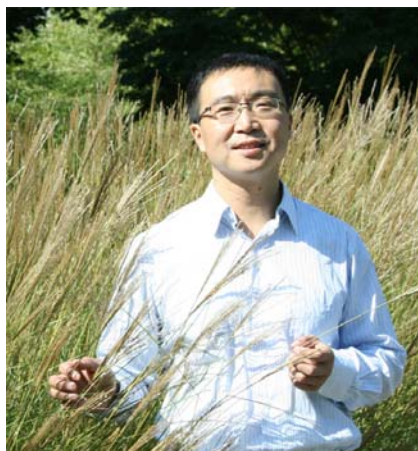


Curriculum Vitae



Chenzhou CUI

National Astronomical Observatories,
Chinese Academy of Sciences (NAOC)
20A Datun Road, Chaoyang District
Beijing 100012, China

Tel: 86-10-64872500

Fax: 86-10-64878240

Email: ccz@nao.cas.cn

<http://www.lamost.org/~cb/>

Personal Information:

Gender: Male

Date of Birth: February 27, 1976

Family Status: Married, two children

Nationality: P. R. of China

Current Position:

Director (with the nickname *Chief Information Officer*), Center of Information and Computing, NAOC

Education:

Ph.D. in Astronomical Techniques and Methods, 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:

Astro-Informatics, Virtual Observatory, Data-Driven Education and Public Outreach, Cloud Computing, Big Data, Grid Technology, Astronomical Databases, Astronomical Data Center, Data Processing and Analysis, Galactic Structure and Evolution, Stellar Abundance

Working Experiences:

- Director (associated professor and then professor), Center of Information and Computing, NAOC, 2009.1-
- Lead (associated professor), Center of Information and Computing, NAOC, 2006.1-2008.12
- Researcher (lecture and then associate professor), LAMOST, NAOC, 2003.7 – 2005.12

Visiting Experiences:

- Adjunct Professor, Tianjin University, 2015.3-
- 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:

- Director (Chief Information Officer), Center of Information and Computing, NAOC, 2009.1-
- Principle Investigator (PI), Chinese Virtual Observatory. 2002 -
- PI, Chinese Astronomical Data Center, 2011 -
- Executive Member, International Virtual Observatory Alliance. 2002 –
- Chair, IAU Inter-Commission B2-C1-C2 WG Data Driven Astronomy Education and Public Outreach (DAEPO). 2017 –
- Chair, International Virtual Observatory Alliance (IVOA) Education Interest Group. 2017.05 -
- Co-Director, NAOC-Alibaba Cloud Astronomical Big Data Joint Research Center. 2017 -
- Member, Commission Organizing Committee, Division B2 Data & Documentation, International Astronomical Union (IAU), 2015 –
- Member, Worldwide Telescope (WWT) Advisory Board, American Astronomical Society, 2016 -
- Academic Advisors, Worldwide Telescope Academic Program, Microsoft Research. 2009 - 2015
- Editor, International Virtual Observatory Alliance (IVOA) Newsletter. 2011.4 -
- Deputy Director, Astronomical Terms Committee, Chinese Astronomical Society, 2007 -
- Deputy Director, Public Outreach Committee, Chinese Astronomical Society, 2015 -
- Co-Director, NAOC-TJU Joint Laboratory in AstroInformatics, 2008 -
- Lead, Data Management Subsystem, LAMOST. 2002 -
- Scientific Editor, Astronomical Research & Technology - Publications of National Astronomical Observatories of China, 2008 –
- Scientific Editor, China Scientific Data, 2016 -
- Scientific Editor, Big Data Research, 2016 -
- Task Group Member, Committee on Data for Science and Technology (CODATA), International Council for Science, 2011.4 -
- Interest Group Member, Research Data Alliance (RDA), 2015 -
- Member, New Terms Committee, China National Committee for Terms in Sciences and

Technologies, 2009.4 –

- Council Member, Beijing Astronomical Society, 2005 – 2013; 2017.11 -
- Working Group Member, IAU Commission 5. 2008 -2015
- Chair, Youth Working Committee, Beijing Astronomical Society, 2010 - 2013
- Project Manager, World Data Center for Astronomy. 2001 – 2011
- 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-
- Chinese Geophysical Society, 2013.9 -

Personal Honors and Awards:

- Outstanding Contribution Award of Astronomy, Chinese Astronomical Society, Nanjing, 2012
- Advanced Individual, China National Committee for Terms in Sciences and Technologies, Beijing, 2010
- Nova in Science & Technology, 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

Achievement Honors and Awards:

- Virtual Observatory: AstroCloud, e-Science Excellent Case, Chinese Academy of Sciences, Beijing, 2015
- Virtual Observatory, e-Science Excellent Case, Chinese Academy of Sciences, Beijing, 2010
- CosmoStation, Consolation prize of "Excellent EPO Website Contest", Internet Society of China, Beijing, 2005

Skills:

Java, XML, PHP, SQL, C, FORTRAN, HTML, JavaScript, Shell/UNIX
Grid and Web Services (Globus Toolkit, OGSA), Cloud Computing
Database Administration (MySQL, miniSQL, Oracle)
System Administration (Solaris, Linux, Windows)
Network Administration
Data Mining, Big Data

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. "Architecture of Chinese Virtual Observatory", **Chenzhou Cui**, Yongheng Zhao. 2004, *Astronomical Research and Technology*, 1 (2), 140-151. 2004PNAOC...1..140C
6. "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
7. "VOFilter, Bridging Virtual Observatory and Industrial Office Applications", **Chenzhou Cui**, Markus Dolensky, Peter Quinn, Yong-heng Zhao, Francoise Genova. 2006, *ChJAA*, 6 (3), 379-386. 2006ChJAA...6..379C
8. "SkyMouse: A smart interface for astronomical on-line resources and services", **Chenzhou CUI**, Hua-Ping SUN, Yong-Heng ZHAO, Yu LUO & Da-Zhi QI. 2008, *Chinese Science Bulletin*, 53 (10), 1479-1483
9. "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
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11. "A Historical Sky Survey Project, SDSS", **Chen-Zhou CUI**. 2010, *Scientific Data Communication*. 1, 17-20
12. "Taking Advantages of Advanced Information Technologies for New Academic Glossary Item Collection", **Chen-Zhou CUI**. 2010, *China Terminology*, 3, 19-21
13. "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
14. "Enhanced management of personal astronomical data with FITSManager", **Chen-Zhou CUI**, Dong-Wei FAN, Yong-Heng ZHAO, Ajit KEMBHAVI, Bo-Liang HE, Zi-Huang CAO, Jian LI, Deoyani NANDREKAR. 2011, *New Astronomy*, 17 (2012) 167-174. DOI: 10.1016/j.newast.2011.06.009
15. "Robotic Autonomous Observatory Network Review", **CUI Chen-zhou**, LI Jian, CAI Xu, FAN Yu-feng, WANG Feng, CAO Zi-huang, SU Li-ying, FAN Dong-wei, QIAO Cui-lan, HE Bo-liang, LI Chang-hua, ZHAO Yong-heng, CHEN Yue, WANG Chuan-jun, XIN Yu-xin, BAI Jin-ming, JI

- Kai-fan. 2013, PABei, 31 (2): 140-158
16. "Virtual Observatory, an e-Science Environment for Astronomy", **CUI Chen-zhou**, XUE Yan-jie, LI Jian, ZHAO Hong-heng, LIU Liang, CHEN Xiao. 2013, Bulletin of Chinese Academy of Sciences, 28 (4): 511-518
 17. "Astronomy research in big-data era (in Chinese)", **Cui Chen-zhou**, Yu Ce, Xiao Jian, et al. Chin Sci Bull, 2015, 60: 445–449, doi: 10.1360/N972014-00839

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2. "Integrating legacy software toolkits into China-VO system", Wang Xiao-Qian, **Cui Chen-Zhou**, Zhao Yong-Heng. 2005, PNAOC, 2: 293. 2005PNAOC...2..293W
3. "Chemical Evolving Research of the Galaxy Under Grid Environment", Luo Ze, **Cui Chen-Zhou**, Nan Kai, Yan Bao-Ping. 2005, Journal of Software, 16(8), 1465-1473
4. "Grid-based Statistical Analysis of Fe Abundances Gradients in Galaxy", Luo Ze, **Cui Chen-Zhou**, Nan Kai, Yan Bao-Ping. 2005, Computer Engineering, 31(3), 45-47
5. "Construction of the Sky Node system for Chinese Virtual Observatory", Liu Bo, **Cui Chen-Zhou**, Zhao Yong-Heng. 2006, PNAOC, 3(4): 355-364
6. "Resource Information Management in Chinese Virtual Observatory", LI Chang-Hua, **CUI Chen-Zhou**, LI Lian & ZHAO Yong-Heng. 2008, PNAOC, 5 (2): 124-129
7. "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
8. "Design and Implementation of a FITS File Manager", Dong-Wei FAN, **Chen-Zhou CUI**, Yong-Heng ZHAO. 2011, PNAOC, 8(3): 306-314
9. "Design and Implementation of A Shared Memory Scheduler Based GPU Resource", Chang-Hua LI, **Chen-Zhou CUI**, Peter Berczik, Sui-Jian XUE, Rainer Spurzem. 2012, e-Science Technology and Application, 3 (5): 29-33
10. "Review and Prospect of the Astronomical Database", LI Jian, **CUI Chen-zhou**, HE Bo-liang, ZHAO Yong-heng, CAO Zi-huang, FAN Dong-wei, LI Chang-hua, CHEN Yue. 2013, Progress in Astronomy (PABei), 31 (1): 1-16
11. "The Secondary Development based on Remote Telescope System – 2nd version", Li Jian, **Cui Chenzhou**, Zhao Yongheng, CAO Zihuang, Kubánek Petr. 2013, PNAOC, 10 (3): 264-272
12. "Practice and research on astronomy teaching and learning based on real data", Cui-Lan QIAO, **Chen-Zhou CUI**, Xiao-Ping ZHENG, Qin WANG, Yan XU. 2013, College Physics, 32(6):48-51
13. "Applications of IPv6 technology in China-VO astronomical cloud computing environment", Chang-Hua LI, **Chen-Zhou CUI**, Bo-Liang HE, Dong-Wei FAN, Ling-Ying MI, Shan-Shan LI, Ya ZHANG, Peng-Fei XU, Wen-Ming SONG. 2016, Journal of Computer Applications, 36 (Suppl. 1): 25-28
14. "Big data and paradigm shift for astronomy in the 21st century". Yanxia ZHANG, **Chenzhou CUI**, Yongheng ZHAO. 2016, Big Data Research, vol 6: 65-74. doi: 10.11959/j.issn.2096-0271.2016067

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2. "Data Access Service of China-VO ", Jian Sang, Yongheng Zhao, **Chenzhou Cui**. 2004, Astronomical Research and Technology, 1 (3), 216-228. 2004PNAOC...1..216C
3. "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
4. "The Design and Implement of VO- DAS Registry". Yong LU, Chao LIU, **Chen-Zhou CUI**, Yong-Heng ZHAO. 2007, PNAOC, 4(4): 355-359
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6. "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
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13. "Overview of Current Status and Development Strategies in China's Astronomical Facilities and Related Technologies", Xue Yanjie, Xue Suijian, Zhu Ming, **Cui Chenzhou**. 2014, Bulletin of Chinese Academy of Sciences, 29 (3): 368 -375
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17. "An English-Chinese Dictionary of Astronomy", Li Jing, Yu Heng, **Cui Chenzhou**. 2015, China Science and Technology Press, Beijing. ISBN 978-7-5046-6977-3/P-184
18. "An Open Experimental Platform of Astronomy Big Data Based on Cloud Computing". Jian Xiao, Chang-hua Li, Dong-wei Fan, Ce Yu, Chen-zhou Cui. 2016, *Experimental Technology and Management*, Vol 33 (12): 158-162. DOI: 10.16791/j.cnki.sjg.2016.12.039
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20. "Taurus High Performance Computing System of Xinjiang Astronomical Observatory". Hai-long Zhang, Xin-chen Ye, Jun Nie, Long-fei Chen, Tohtonur, Jie Wang, **Chenzhou Cui**, Changhua Li, Yan Zhu, Meng Zhang. *PNAOC*: 1-14.(2017-11-07). <http://kns.cnki.net/kcms/detail/53.1189.P.20171107.1559.002.html>. DOI : 10.14005/j.cnki.issn1672-7673.20171107.001
21. "Review on the Celestial Sphere Positioning of FITS Format Image Based on WCS and Research on General Visualization". Wen-Ming SONG, Dong-Wei FAN, Li-Ying SU, **Chen-Zhou CUI**. 2017, *ACTA ASTRONOMICA SINICA*, Vol. 58 (6): 52 1-17. DOI: 10.15940/j.cnki.0001-5245.2017.06.001
22. "AAS WorldWide Telescope: Seamless, Cross-Platform Data Visualization Engine for Astronomy Research, Education, and Democratizing Data". Philip Rosenfield, Jonathan Fay, Ronald K Gilchrist, **Chenzhou Cui**, A. David Weigel, Thomas Robitaille, Odeh Justin Otor, and Alyssa Goodman. 2018. *ApJS*. Accepted

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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. "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.
3. "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.
4. "Integrating Existing Software Toolkits into VO System", **Chenzhou Cui**, Yongheng Zhao, Xiaoqian Wang, Jian Sang, Ze Luo. 2004, In: *Optimizing Scientific Return for Astronomy through Information Technologies*, edited by Peter J. Quinn, Alan Bridger, Proc. of SPIE Vol. 5493: 233-241 (SPIE, Bellingham, WA, 2004). doi: 10.1117/12.550970. 2004SPIE.5493..233C
5. "The International Virtual Observatory Alliance: recent technical developments and the road ahead", P.J. Quinn, D. Barners, I. Csabai, **C. Cui**, et al. 2004, In: *Optimizing Scientific Return for Astronomy through Information Technologies*, edited by Peter J. Quinn, Alan

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 7. "An astronomical data mining application framework for virtual observatory", Liu, C., Wang, D. , Liu, B. , Gao, D. , **Cui, C.** and Zhao, Y. 2006, In: Advanced Software and Control for Astronomy. Edited by Lewis, Hilton; Bridger, Alan. Proceedings of the SPIE, Vol 6274, pp. 627415, 2006
 8. "Software kits for measuring photometric redshifts", Dan Wang, Yanxia Zhang, **Chenzhou Cui**, Yongheng Zhao. 2006, In: Advanced Software and Control for Astronomy. Edited by Lewis Hilton, Bridger Alan. Proceedings of the SPIE, Vol 6274, pp. 627413. doi:10.1117/12.670136; <http://dx.doi.org/10.1117/12.670136>
 9. "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
 10. "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)
 11. "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
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 16. "Cyber-Infrastructure for Astronomy Research", **CUI Chen-zhou**, XUE Yan-jie, LI Jian, ZHAO Hong-heng, LIU Liang, CHEN Xiao. 2013, In: Chinese Academy of Sciences, eds. China's e-Science Blue Book 2013. Beijing, December, 2013, 251-259. ISBN:

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