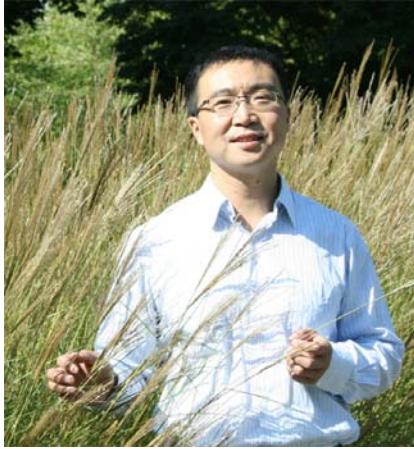# Curriculum Vitae

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Family Status: Married, two children
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Current Position:

Chief Information Officer, Professor, NAOC, 2006.1-

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: Astronmical Databasese, 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 Based 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

Work Experiences:

- Professor, NAOC, 2013.2 –

- Adjunct Professor, Tianjin University, 2015.3-
- Associated Professor, NAOC, 2006.1- 2013.1
- Lecturer, NAOC, 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:

- Chief Information Officer (CIO), NAOC. 2006 -
- Principle Investigator (PI), Chinese Virtual Observatory. 2002 -
- PI, Chinese Astronomical Data Center, 2011 -
- Executive Member, International Virtual Observatory Alliance. 2002 -
- Member, Commission Organizing Commitee, Division B2 Data & Documentation, International Astronomical Union (IAU), 2015 –
- Member, Worldwide Telescope (WWT) Advisory Board, American Astronomical Society, 2016 -
- 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 -
- Deputy 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 –
- Academic Advisors, Worldwide Telescope Academic Program, Microsoft Research, 2009 - 2015
- Working Group Member, IAU Commission 5, 2008 -2015
- Chair, Youth Working Committee, Beijing Astronomical Society, 2010 - 2013
- Council Member, Beijing Astronomical Society, 2005 - 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 Contributor, Chinese Astronomical Society, Nanjing, 2012
- 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

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

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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

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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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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

Published as second author:

1. "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

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

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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

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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

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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

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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

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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

12. "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. 434, 2010, San Francisco. Y. Mizumoto, K.-I. Morita, and M. Ohishi, eds. 175-178

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14. "The Revolution in Astronomy Curriculums Introduced by Worldwide Telescope", Cui-Lan QIAO, **Chen-Zhou CUI**, Xiao-Ping ZHENG, Yan XU. 2011, IN: INTED2011 Proceedings CD. 5th Edition, Valencia (Spain), 7-9 March, 2011, 128-136. ISBN: 978-84-614-7423-3

15. "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 Scieces, eds. China's e-Science Blue Book 2013. Beijing, December, 2013, 251-259. ISBN: 978--3-039323-4

16. "Data Resources and Services at CAsDC", **CUI Chenzhou**, HE Boliang, XIAO Jian, YU Ce, LI Jian, CAO Zihuang, SU Liying, FAN Dongwei, QIAO Cuilan, LI Changhua, CHEN Yue and ZHAO Yongheng. 2014, In: S. Feltzing, G. Zhao, N. A. Walton & P. A. Whitelock, eds. Setting the science for Gaia and LAMOST, Proceedings of the International Astronomical Union (2013) Symposium S298, 401. 2014IAUS..298..401C, doi:10.1017/S1743921313006686

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18. "Optimizing the Join Operation on Hive to Accelerate Cross-Matching in Astronomy", Liang Li, Dixin Tang, Taoying Liu, Hong Liu, Wei Li, **Chenzhou Cui**. 2014, In: Parallel & Distributed Processing Symposium Workshops (IPDPSW), 2014 IEEE International. 19-23 May 2014, Phoenix (AZ) USA. DOI 10.1109/IPDPSW.2014.193

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20. AstroCloud, a Cyber-Infrastructure for Astronomy Research: Architecture. Jian Xiao, Ce Yu, **Chenzhou Cui**, Boliang He, Changhua Li, Dongwei Fan, Zhi Hong, Shucheng Yin, Chuanjun Wang, Zihuang Cao, Yufeng Fan, Shanshan Li, Linying Mi, Wanghui Wan, Jianguo Wang, and Hailong Zhang. 2015, In: A. R. Taylor and E. Rosolowsky, eds. Astronomical Data Analysis Software and Systems: XXIV. Astronomical Society of the Pacific. ASP Conference Series, Vol. 495,473-476

21. AstroCloud, a Cyber-Infrastructure for Astronomy Research: Data Access and Interoperability. Dongwei Fan, Boliang He, Jian Xiao, Shanshan Li, Changhua Li,

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