

Curriculum Vitae: Dongwei Fan

Personal Details

Name: Dongwei Fan
Gender: Male
Citizen : Chinese
Date of Birth: June 6, 1985
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Address: 20A Datun Road, Chaoyang District
National Astronomical Observatories, CAS, Room A330
Beijing, 100012, China

Work Experiences:

- Associate Researcher, National Astronomical Observatories, CAS, 2016.4-
- Lecturer, National Astronomical Observatories, CAS, 2013.12-2016.4

Education

M.S.-Ph.D. in Astronomical Techniques and Methodology, 2008.9 - 2013.6
National Astronomical Observatories, CAS, Beijing, China

Visiting Ph.D. Student in Astrophysics, 2011.9 - 2013.2
Johns Hopkins University, Baltimore, MD, USA

B.S. in Computer Science and Technology, 2003.9 - 2007.6
Guangxi Normal University, Guilin, Guangxi, China

Research Interests

Astro-Informatics, Virtual Observatory, Astronomy Catalog Crossmatching, Data Visualization, Data Based Education and Public Outreach, Cloud Computing, Big Data, Astronomical Database

Visit Experiences:

- 2018.11, Johns Hopkins University, MD, USA
- 2015.03-2015.04, ICRAR, Perth, WA, Australia

Professional Societies:

- IAU Junior Member, since 2018
- Chinese Astronomical Society, since 2016

- Beijing Astronomical Society, since 2015

Papers

- The First Data Release of the Beijing-Arizona Sky Survey, Zou, Hu; Zhang, Tianmeng; Zhou, Zhimin et al., 2017, *AJ*, 153, 276
- Project Overview of the Beijing-Arizona Sky Survey, Zou, Hu; Zhou, Xu; Fan, Xiaohu et al., 2017, *PASP*, Vol.129, No.6
- Galactic Extinction and Reddening from the South Galactic Cap u-band Sky Survey: u-band Galaxy Number Counts and u - r Color Distribution, Li, Linlin; Shen, Shiyin; Hou, Jinliang et al., 2017, *AJ*, 153, 88
- Matching radio catalogues with realistic geometry: application to SWIRE and ATLAS, Fan, Dongwei; Budavári, Tamás; Norris, Ray P.; Hopkins, Andrew M., 2015, *Monthly Notices of the Royal Astronomical Society*, Volume 451, Issue 2, p.1299-1305
- South Galactic Cap u-band Sky Survey (SCUSS): Data Release, Zou, Hu; Zhou, Xu; Peng, Xiyan et al., 2016, *The Astronomical Journal*, Vol.151, No.2, 37
- The First Data Release (DR1) of the LAMOST general survey, Luo, Ali; Zhao, Yongheng; Zhao, Gang et al., 2015, *Research in Astronomy and Astrophysics*, Vol. 15, No.8
- Efficient Catalog Matching with Dropout Detection, Fan, Dongwei; Budavári, Tamás; Szalay, Alexander S.; Cui, Chenzhou; Zhao, Yongheng, 2013, *Publications of the Astronomical Society of the Pacific*, Volume 125, issue 924, pp.218-223
- Enhanced Management of Personal Astronomical Data with FITSManager, Cui, Chenzhou; Fan, Dongwei; Zhao, Yongheng; Kembhavi, Ajit; He, Boliang; Cao, Zihuang; Li, Jian; Nandrekar, Deoyani, 2012, *New Astronomy*, 17, 167–174
- Cross-Matching Large Astronomical Catalogs on Heterogeneous Clusters, Jia, Xiaoying; Luo, Qiong; Fan, Dongwei, 2015, 2015 IEEE 21st International Conference on Parallel and Distributed Systems (ICPADS), 617-624
- POPULAR SUPERNOVA PROJECT: A CITIZEN SCIENCE PROGRAM BASED ON AMATEUR ASTRONOMICAL OBSERVATIONS, Li, Shanshan; Fan, Dongwei; Gao, Xing; Cui, Chenzhou, 2016, *INTED2016 Proceedings*, 7561-7569
- Astronomy research in big-data era, Cui, Chenzhou; Yu, Ce; Xiao, Jian; et al., 2015, *Chin Sci Bull*, 60: 445–449, doi: 10.1360/N972014-00839
- Design and Implementation of a FITS File Manager, Fan, Dongwei; Cui, Chenzhou & Zhao, Yongheng, 2011, *Astronomical Research and Technology*, 8, 3
- AstroCloud, a Cyber-Infrastructure for Astronomy Research: Data Access and Interoperability, Fan, Dongwei; He, Boliang; Xiao, Jian et al., 2015, *Astronomical Data Analysis Software and Systems XXIV (ADASS XXIV)*, Vol 495, 477
- Probabilistic Cross-matching of Radio Catalogs with Geometric Models, Fan, Dongwei & Budavári, Tamás, 2014, *Astronomical Society of the Pacific Conference Series XXIII*, 485, 22
- Efficient Catalog Matching with Dropout Identification, Fan, Dongwei; Budavári Tamás, 2013, *Astronomical Data Analysis Software and Systems XXII*, 475, 33
- Robotic Autonomous Observatory Network Review, Cui, Chenzhou; Li Jian, Cai, Xu, et al. 2013, *PABei*, 31 (2): 140-158
- Review and Prospect of the Astronomical Database, Li, Jian; Cui, Chenzhou; He, Boliang et al.

Language

- Zhuang
- Chinese - Mandarin & Liuzhou dialect
- English

Skills

- C, C++, C#, Java, Python, XML, Fortran, SQL
- ASP/ASP.net, JSP, HTML, CSS, Javascript
- Microsoft Access, Microsoft SQL Server, MySQL, PostgreSQL, Apache Derby
- Windows Server, Linux CentOS/Fedora/Ubuntu
- Forth level certification for PC technology of National Computer Rank Examination (NCRE4)
- Qualification Certificate of Computer and Software Technology Proficiency the People's Republic of China - Software Designer

Hobbies:

Basketball, Table Tennis, Rubik's Cube, Photography

Conferences and Schools

- 2017.11, Astroinformatics 2017, Cape Town, South Africa
- 2017.11, China-South Africa Bilateral Workshop, Cape Town, South Africa
- 2017.10, IVOA Interoperability Meeting, Santiago, Chile
- 2017.10, ADASS XXVII, Santiago, Chile
- 2016.9, International Data Week, Denver, Colorado, USA
- 2015.11, China-VO 2015, Tianshui, Gansu, China
- 2014.11, China-VO 2014, Xinchang, Zhejiang, China
- 2014.10, Chinese Astronomical Society Annual Meeting, Lintong, Shaanxi, China
- 2014.10, ADASS XXIV, Calgary, AB, Canada
- 2013.09, ADASS XXIII, Waikoloa, HI, USA
- 2013.09, IVOA Interoperability Meeting, Waikoloa, HI, USA
- 2012.11, ADASS XXII, UIUC, IL, USA
- 2012.05, IVOA Interoperability Meeting, UIUC, IL, USA
- 2011.12, VAO Group Work Meeting, CalTech, CA, USA
- 2010.12, IVOA Interoperability Meeting, Nara, Japan
- 2010.11, China-VO 2010, Lijiang, China
- 2010.03, Astronomical Information Technology Training, NAOC, Beijing,
- 2009.11, China-VO 2009, Chongqing, China
- 2009.06, Database Training, Chinese Academy Sciences, Beijing, China

Services and Activities

- APOD China-VO Desktop Tool, 2017-present
- WWT China-VO version, 2016-present
- Popular Supernova Project (PSP), 2015-present
- LAMOST data publishing, NAOC, 2014-present
- Astronomical Cloud Platform, CAS, 2013-present
- Probabilistic Optical and Radio Sources Crossmatching, 2012 - present
- Crossmatch in Zones Algorithm with sphere region constraint, 2011 – 2012
- "Microsoft Cup" Universe Tours Competition, 2010
- Astronomical Resource Manager, 2009 - present
- WWT Community Beijing, 2009 - present
- NAOC Webcast System, 2009
- 2009 Eclipse Live, 2009.6 - 2009.7.22
- SkyMouse, 2008 - present