



# Jinghua Yuan

*Curriculum Vitae (July 24, 2017)*

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*Address*            National Astronomical Observatories, Chinese Academy of Sciences,  
                         A20 Datun Road, Chaoyang District, Beijing 10012, China

*Phone*            (+86) 10-64807793

*Mail*              [jhyuan@nao.cas.cn](mailto:jhyuan@nao.cas.cn)

## APPOINTMENTS

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**Assistant Scientist** 2014-  
*National Astronomical Observatories, Chinese Academy of Sciences*

## EDUCATION

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**PhD Astrophysics** 2009-2014  
*National Astronomical Observatories, Chinese Academy of Sciences*  
“Multi-wavelength investigations on feedback of massive star formation”  
Thesis advisor: Dr. Jinzeng Li (NAOC) / Prof. Yuefang Wu (PKU)

**BS Physics** 2005-2009  
*University of Jinan*  
“Applications of MATLAB in the Electrodynamics Teaching”.  
Academic/Research advisors: Prof. Yi Jin

## RESEARCH INTERESTS

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- formation of low- to high-mass stars
- feedback of massive star in their early evolutionary stages
- initial conditions of star-forming regions
- formation and evolution of molecular clouds
- molecular outflows and their interactions with natal clouds

## RESEARCH SKILLS

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- Python: image processing, data visualization, data analysis, table manipulation
- GILDAS: reduction and analysis of molecular line data collected using single-dish radio telescopes
- MIRIAD: reduction and analysis of data collected using the SMA interferometer

- CASA: reduction and analysis of data collected using the JVL A and ALMA interferometers
- STARLINK: reduction of both heterodyne and continuum data of JCMT
- IRAF: reduction of spectroscopic data collected using optical telescope; photometry of optical and infrared images
- IDL: data visualization
- LaTeX: typesetting in both English and Chinese

## PEER-REVIEWED JOURNAL PAPERS [\[ADS Link\]](#)[\[arXiv\]](#)

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16. Yuan, Jinghua; Wu, Yuefang; Ellingsen, Simon P.; Evans, Neal J., II; Henkel, Christian; Wang, Ke; Liu, Hong-Li; Liu, Tie; Li, Jin-Zeng; Zavagno, Annie, “[High-mass Starless Clumps in the inner Galactic Plane: the Sample and Dust Properties](#)”, *ApJS*, 231, 11 (2017).
15. Ward-Thompson, Derek; Pattle, Kate; ... Yuan, Jinghua; Zhang, Chuan-Peng; Zhang, Guoyin; et al., “[First Results from BISTRO: A SCUBA-2 Polarimeter Survey of the Gould Belt](#)”, *ApJ*, 842, 66 (2017).
14. Liu, Hong-Li; Figueira, Miguel; Zavagno, Annie; Hill, Tracey; Schneider, Nicola; Men’shchikov, Alexander; Russeil, Delphine; Motte, Frédérique; Tigé, Jérémy; Deharveng, Lise; Anderson, Loren D.; Li, Jin-Zeng; Wu, Yuefang; Yuan, Jing-Hua; Huang, Maohai, “[Herschel observations of the Galactic H II region RCW 79](#)”, *A&A*, 602, A95 (2017).
13. Zhang, Chuan-Peng; Yuan, Jing-Hua; Xu, Jin-Long; Liu, Xiao-Lan; Yu, Nai-Ping; Li, Nan; He, Li-Ping; Zhang, Guo-Yin; Wang, Jun-Jie, “[Searching for initial stage of massive star formation around the H II region G18.2–0.3](#)”, *RAA*, 17, 057 (2017).
12. Zhang, Chuan-Peng; Yuan, Jing-Hua; Li, Guang-Xing; Zhou, Jian-Jun; Wang, Jun-Jie, “[A multi-wavelength observation and investigation towards six infrared dark clouds](#)”, *A&A*, 598, A76 (2017).
11. Gama, D. R. G.; Lepine, J. R. D.; Mendoza, E.; Wu, Y.; Yuan, J., “[CO observations and investigation of triggered star formation towards N10 infrared bubble and surroundings](#)”, *ApJ*, 830, 57 (2016).
10. Zhang, Si-Ju; Wu, Yuefang; Li, Jin Zeng; Yuan, Jing-Hua; Liu, Hong-Li; Dong, Xiaoyi; Huang, Ya-Fang, “[Feedback of the HBe star IL Cep on nearby molecular cloud and star formation](#)”, *MNRAS*, 458, 4222 (2016).
9. Yuan, Jinghua; Wu, Yuefang; Liu, Tie; Zhang, Tianwei; Zeng Li, Jin; Liu, Hong-Li; Meng, Fanyi; Chen, Ping; Hu, Runjie; Wang, Ke, “[Dense Gas in Molecular Cores Associated with Planck Galactic Cold Clumps](#)”, *ApJ*, 820, 37 (2016).
8. Liu, Hong-Li; Li, Jin-Zeng; Wu, Yuefang; Yuan, Jing-Hua; Liu, Tie; Dubner, G.; Paron, S.; Ortega, M. E.; Molinari, Sergio; Huang, Maohai; and 4 coauthors, “[Interactions of the Infrared Bubble N4 with Its Surroundings](#)”, *ApJ*, 818, 95 (2016).

7. Liu, Tie; Zhang, Qizhou; Kim, Kee-Tae; Wu, Yuefang; Lee, Chang Won; ...; **Yuan, Jinghua**; Li, Di; et al., “[Planck Cold Clumps in the  \$\lambda\$  Orionis Complex. I. Discovery of an Extremely Young Class 0 Protostellar Object and a Proto-brown Dwarf Candidate in the Bright-rimmed Clump PGCC G192.32-11.88](#)”, *ApJS*, 222, 7 (2016).
6. Zhang, Chuan-Peng; Li, Guang-Xing; Wyrowski, Friedrich; Wang, Jun-Jie; **Yuan, Jing-Hua**; Xu, Jin-Long; Gong, Yan; Yeh, Cosmos C.; Menten, Karl M., “[N131: A dust bubble born from the disruption of a gas filament](#)”, *A&A*, 585, A117 (2016).
5. Paron, S.; Ortega, M. E.; Dubner, G.; **Yuan, Jing-Hua**; Petriella, A.; Giacani, E.; Li, Jin Zeng; Wu, Yuefang; Liu, Hongli; Huang, Ya Fang; Zhang, Si-Ju, “[H II Region G46.5-0.2: The Interplay between Ionizing Radiation, Molecular Gas, and Star Formation](#)”, *AJ*, 149, 193 (2015).
4. Liu, Hong-Li; Wu, Yuefang; Li, JinZeng; **Yuan, Jing-Hua**; Liu, Tie; Dong, Xiaoyi, “[A Feedback-driven Bubble G24.136+00.436: A Possible Site of Triggered Star Formation](#)”, *ApJ*, 798, 30 (2015).
3. **Yuan, Jing-Hua**; Wu, Yuefang; Li, Jin Zeng; Liu, Hongli, “[Expanding Shell and Star Formation in the Infrared Dust Bubble N6](#)”, *ApJ*, 797, 40 (2014).
2. **Yuan, Jing-Hua**; Wu, Yuefang; Li, Jin Zeng; Yu, Wentao; Miller, Martin, “[A mapping study of L1174 with 13CO J=2-1 and 12CO J=3-2: star formation triggered by a Herbig Ae/Be star](#)”, *MNRAS*, 429, 954 (2013).
1. **Yuan, Jing-Hua**; Li, Jin Zeng; Huang, Ya Fang; Hsia, Chih-Hao; Miao, Jingqi, “[The discovery based on GLIMPSE data of a protostar driving a bipolar outflow](#)”, *A&A*, 540, A95 (2012).

## CONFERENCE PAPERS

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5. Wu, Y.; Liu, T.; Meng, F.; **Yuan, J.**; Zhang, T.; Chen, P.; Hu, R.; Li, D.; Qin, S.; Ju, B., “[Physical properties of Planck Cold Dust Clumps](#)”, *EAS Publications Series*, Volume 75-76, pp.277-280 (2016).
4. Zhang, Chengpeng; Wu, Yuefang; **Yuan, Jing-Hua**; Liu Tie, “[The feedback of Herbig Ae/Be stars](#)”, *Proceedings of the International Astronomical Union*, Volume 11, Issue S315 (2015).
3. Li, Jinzeng; **Yuan, Jinghua**; LIU, Hongli; Wu, Yuefang; Huang, Yafang, “[Drama of HII regions: Clustered and Triggered Star Formation](#)”, *IAU General Assembly*, Meeting #29, id.2256434 (2015).
2. Liu, Tie; Wu, Yuefang; Mardones, Diego; Kim, Kee-Tae; Menten, Karl M.; ...; **Yuan, Jinghua**; Belloche, Arnaud; Henkel, Christian; et al., “[Follow-Up Observations Toward Planck Cold Clumps with Ground-Based Radio Telescopes](#)”, *APRIM proceeding*, PKAS, 30, 79 (2015).
1. Gama, D.; Lepine, J.; Wu, Y.; **Yuan, J.**, “[The Bubble N10](#)”, *XIV Latin American Regional IAU Meeting*, Vol. 44, pp. 135-135 (2014).

## FUNDING

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- National Natural Science Foundation (NSFC), “Identification and pilot investigations of massive starless clumps”, RMB 260,000 (PI, 1/16 - 12/18).
- NSFC, “Clustered and Triggered Star Formation under the Influence of HII Regions”, RMB 812,000 (co-PI, 1/16 - 12/19).
- NSFC, “Selection and classification of young stellar objects and multiwavelength investigation of embedded clusters”, RMB 300,000 (co-PI, 1/15 - 12/17).
- Beijing Natural Science Foundation, “Source selection criteria and multiwavelength investigations of embedded clusters”, RMB 60,000 (co-PI, 1/14 - 12/15).
- National Astronomical Observatory of China, “High Resolution Study of an Extended Green Object: G22.04+0.22”, RMB 30,000 (PI, 6/14 - 5/16).
- Ministry of Science and Technology of the P.R.China, “Building a 40-m antenna in San Juan for collaborative VLBI observations and research”, RMB 74,190,000 (co-PI, 1/11 - 12/15).
- NSFC, “Multiwavelength investigations of the formation and early evolutions of open clusters”, RMB 550,000 (co-PI, 1/11 - 12/13).

## MEETINGS AND CONFERENCES

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- 2017 Asia-Pacific Regional IAU Meeting, Taipei, Taiwan, Aug. 2017 (**oral talk+poster**)
- Workshop for follow-up surveys of Planck Galactic Cold Clumps, Beijing, China, Dec. 2016 (**oral talk**)
- Star Formation Workshop, Dali, China, Sep. 2016 (**oral talk**)
- Chinese Radio Astronomy and Technology 2016, Urumqi, China, Aug. 2016
- The Chinese Annual Astronomy/Astrophysics Meeting 2015, Beijing, China, Oct. 2015 (**oral talk**)
- The 3rd Chinese-German Workshop on Star and Planet Formation, Nanjing, China, Mar. 2015 (**oral talk**)
- The 3rd Chinese Regional JCMT workshop, Beijing, China, Jan. 2015
- IAU 28th General Assembly, Beijing, China, Aug. 2012 (**poster**)
- The 13th Synthesis Imaging Workshop, Socorro, NM, US, June 2012
- Chinese Radio Astronomy and Technology 2011, Kunming, July 2011
- Star formation and Galactic Structure Workshop, Yixing, China, Mar. 2011

## **AWARDS**

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- 2014 Pacemaker to Merit Student, University of Chinese Academy of Sciences (UCAS)
- 2013 National Scholarship for Graduated Students (PhD level), Ministry of Education of the P.R. China
- 2013 UCAS-BHP Billiton Scholarship, UCAS and BHPB
- 2013 Merit Student, UCAS