

## Yan Gong

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### RESEARCH INTERESTS

- Large-scale structure and kinematics of molecular clouds
- Star formation in molecular clouds
- Astrochemistry
- Astronomical masers
- Circumstellar envelopes of late-type stars

### EDUCATION

- 09/2009–07/2016 Ph.D. in Astrophysics, [Purple Mountain Observatory](#)  
Thesis: "A search for triggered star formation and a 1.3 cm spectral line survey"  
Advisors: Prof. Dr. Rui-qing Mao & Dr. Christian Henkel
- 09/2005–07/2009 B.Sc. in physics, [Central China Normal University](#)

### PROFESSIONAL APPOINTMENTS

- 07/2016–08/2017 Research assistant, [Purple Mountain Observatory](#)  
09/2017– Postdoc, [Max-Planck Institut für Radioastronomie](#)

### REFEREED PUBLICATIONS

11. Su, Yang; Yang, Ji; Zhang, Shaobo; [Gong, Yan](#); Wang, Hongchi; Zhou, Xin; Wang, Min; Chen, Zhiwei; Sun, Yan; Chen, Xuepeng; Xu, Ye; Jiang, Zhibo, 2019, ApJS, 240, 9, [The Milky Way Imaging Scroll Painting \(MWISP\): Project Details and Initial Results from the Galactic Longitudes of 25°8–49°7](#)
10. [Gong, Y.](#); Li, G. X.; Mao, R. Q.; Henkel, C.; Menten, K. M.; Fang, M.; Wang, M.; Sun, J. X., 2018, A&A, 620, A62, [The Serpens filament at the onset of slightly supercritical collapse](#)
9. Henkel, C.; Mühle S.; Bendo, G.; Józsa, G. I. G.; [Gong, Y.](#); Viti, S.; Aalto, S.; Combes, F.; García-Burillo, S.; Hunt, L. K.; Mangum, J.; Martín, S.; Müller, S.; Ott, J.; van der Werf, P.; Malawi, A. A.; Ismail, H.; Alkhuja, E.; Asiri, H. M.; Aladro, R.; Alves, F.; Ao, Y.; Baan, W. A.; Costagliola, F.; Fuller, G.; Greene, J.; Impellizzeri, C. M. V.; Kamali, F.; Klessen, R. S.; Mauersberger, R.; Tang, X. D.; Tristram, K.; Wang, M.; Zhang, J. S. 2018, A&A, 615, A155, [Molecular line emission in NGC 4945, imaged with ALMA](#)

8. Tang, X. D.; Henkel, C.; Menten, K. M.; Wyrowski, F.; Brinkmann, N.; Zheng, X. W.; Gong, Y.; Lin, Y. X.; Esimbek, J.; Zhou, J. J.; Yuan, Y.; Li, D. L.; He, Y. X., 2018, A&A, 609, A16, *Kinetic temperature of massive star-forming molecular clumps measured with formaldehyde. III. The Orion molecular cloud 1*
7. Su, Yang; Zhou, Xin; Yang, Ji; Chen, Yang; Chen, Xuepeng; Gong, Yan; Zhang, Shaobo, 2017, ApJ, 845, 48, *"Is HESS J1912+101 associated with an old Supernova Remnant?"*
6. Gong, Y.; Henkel, C.; J. Ott; K. M. Menten; M. R. Morris; D. Keller; M. J. Claussen; M. Grasshoff; R. Q. Mao, 2017, ApJ, 843, 54, *"SiS in the circumstellar envelope of IRC +10216: maser and quasi-thermal emission"*
5. Gong, Yan; Fang, Min; Mao, Ruiqing; Zhang, Shaobo; Wang, Yuan; Su, Yang; Chen, Xuepeng; Yang, Ji; Wang, Hongchi; Lu, Dengrong, 2017, ApJL, 835, L14, *"L1188: a promising candidate of cloud-cloud collision triggering the formation of the low- and intermediate-mass stars"*
4. Gong, Y.; Mao, R. Q.; Fang, M.; Zhang, S. B.; Su, Y.; Yang, J.; Jiang, Z. B.; Xu, Y.; Wang, M.; Wang, Y.; Lu, D. R.; Sun, J. X., 2016, A&A, 588, A104, *"Molecular clouds and star formation toward the Galactic plane within  $216.25^\circ \leq l \leq 218.75^\circ$  and  $0.75^\circ \leq b \leq 1.25^\circ$ "*
3. Zhang, C. P.; Li, G. X.; Wyrowski, F.; Wang, J. J.; Yuan, J. H.; Xu, J. L.; Gong, Y.; Yeh, Cosmos C.; Menten, K. M., 2016, A&A, 585, A117, *"N131: A dust bubble born from the disruption of a gas filament"*
2. Gong, Y.; Henkel, C.; Thorwirth, S.; Spezzano, S.; Menten, K. M.; Walmsley, C. M.; Wyrowski, F.; Mao, R. Q.; Klein, B., 2015, A&A, 581, A48, *"A 1.3 cm line survey toward Orion KL"*
1. Gong, Y.; Henkel, C.; Spezzano, S.; Thorwirth, S.; Menten, K. M.; Wyrowski, F.; Mao, R. Q.; Klein, B., 2015, A&A, 574, A56, *"A 1.3 cm line survey toward IRC +10216"*

## PROCEEDINGS

2. Gong, Y., Mao, R. Q.; Henkel, C.; Urquhart, J.; Wang, Y.; Zhang, Z. Y.; Wyrowski, F., 2013b, in Protostars and Planets VI Posters, 11, *"Triggered Star Formation at the End of the Galactic Bar?"*
1. Gong, Y., Mao, R., Fang, M., Sun, J., & Lu, D. 2013a, in IAU Symposium, Vol. 292, IAU Symposium, ed. T. Wong & J. Ott, 43-43, *"Molecular gas around infrared dust bubbles"*

## HONORS AND AWARDS

- |           |   |
|-----------|---|
| 2011-2012 | Merit Student, University of Chinese Academy of Sciences                    |
| 2012-2015 | MPG-CAS Joint Doctoral Promotion Program                                    |
| 2016      | The Zhu-Li Yuehua outstanding doctoral award of Chinese Academy of Sciences |
| 2017      | Excellent Doctoral Dissertation of Chinese Academy of Sciences              |

## PRESENTATIONS

- 06/2018: *Star and Planet Formation Seminar*, Garching, ESO, (talk)  
*"The Serpens filament: at the onset of slightly supercritical collapse"*
- 11/2016: *The Chinese Annual Astronomy/Astrophysics Meeting*, Wuhan, China, (talk)  
*"Star formation triggered by a collision of molecular clouds in L1188"*
- 04/2016: *JCMT PI Science*, Mitaka, Japan, (talk)

*"Studying the thermal state of dense gas with JCMT"*

- 08/2015: **Zhangheng academic seminar**, Delingha, (talk)

*"Molecular clouds and star formation toward the Galactic plane within  $216.25^\circ \leq l \leq 218.75^\circ$  and  $0.75^\circ \leq b \leq 1.25^\circ$ "*

- 08/2015: **Scientific talk at XAO**, Urumqi, (talk)

*"A 1.3 cm line survey toward Orion KL"*

- 08/2014: MPIFR group meeting, Bonn, (talk)

*"A 1.3 cm line survey toward IRC +10216"*

- 07/2013: **Protostars & Planets VI**, Heidelberg, (poster)

*"Triggered Star Formation at the End of the Galactic Bar?"*

- 08/2012: **The 28th IAU**, Beijing, (poster)

*"Molecular gas around infrared dust bubbles"*

## SKILLS OF NOTE

- Advanced: GILDAS, IDL
- Experienced: CASA, DS9, PYTHON, L<sup>A</sup>T<sub>E</sub>X, KARMA, MONTAGE
- Operating systems: Linux, Mac OS, Windows
- Observing experience: three weeks, IRAM-30 m (on site); several months, PMO-13.7 m (on site); two weeks, Effelsberg-100 m (on site); SMT-10 m (remote)
- Speaking languages: Chinese (mother tongue), English (fluent), and German (only greeting)

PROFESSIONAL REFERENCES

**Prof. Dr. Karl M. Menten**

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