

## 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](#)

### REFEREED PUBLICATIONS

5. [Gong, Yan](#); Fang, Min; Mao, Ruiqing; Zhang, Shaobo; Wang, Yuan; Su, Yang; Chen, Xuepeng; Yang, Ji; Wang, Hongchi; Lu, Dengrong, 2017, [ApJL](#), [accepted](#), "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

## ACCEPTED OBSERVING PROPOSALS (PI)

Date	Facility	Time	Goals and Status
2016B	JCMT-15 m	23 hours	<i>Star formation triggered by a cloud-cloud collision in L1188 project (M17AP002) approved.</i>
2016B	IRAM-30 m	16.9 hours	<i>Star formation triggered by a cloud-cloud collision in L1188 Observations scheduled.</i>
2016B	JCMT-15 m	10 hours	<i>Multi-J CO transitions toward the bubble N36 Observations finished.</i>
2015A	IRAM-30 m	21.5 hours	<i>On the thermal state of a dense layer enclosing a bubble HII region Observations partly finished.</i>
2015B	Effelsberg-100 m	22 hours	<i>The driving sources of molecular supershells: new supernova remnants? Observations scheduled.</i>
2015A	Effelsberg-100 m	24 hours	<i>A 1.3 cm line survey toward L1157-B1 Observations scheduled.</i>
2014A	IRAM-30 m	23 hours	<i>On the thermal state of a dense layer enclosing a bubble HII region Observations partly finished.</i>
2013A	IRAM-30 m	18 hours	<i>Triggered star formation at the end of the Galactic bar? Observations finished.</i>
2013A	APEX-12 m	8 hours	<i>Interstellar bubbles: how do they trigger massive star formation? Observations finished.</i>
2012	PMO-13.7 m	66 hours	<i>Studying the interaction between HII regions and ambient molecular clouds Observations finished.</i>
2012	PMO-13.7 m	6 hours	<i>The large-scale molecular gas structure of the high-mass star-forming region S76E Observations finished.</i>

## PRESENTATIONS

- 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,  $\text{\LaTeX}$ , KARMA, MONTAGE
- Operating systems: Linux, Mac OS, Windows
- Observing experience: two 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**

Director of Dept. Millimeter and Submillimeter  
Astronomy  
Max-Planck Institut für Radioastronomie  
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D-53121 Bonn  
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