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July 12, 2017

### 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

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 |

## PRESENTATIONS

- 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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Astronomy  
Max-Planck Institut für Radioastronomie  
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