

Hongquan Su  
hongquan.su@icrar.org  
hongquansu.github.io  
+61 8 9266 1289

Address  
1 Turner Av  
Perth, WA 6102  
Australia

# Hongquan Su

## PhD candidate in radio astronomy

**About Me** The beautiful Milky Way attracts me to explore its structure and various sources in it with two observational techniques named neutral hydrogen absorption and HII region absorption at radio frequencies.

## Education

2005 - 2009, Bachelor of Physics, Xuzhou Normal University

2009 - 2012, Master of Astrophysics, Beijing Normal University

2012 - 2014, Research assistant, National Astronomical Observatories of China

2014 - now, PhD candidate, Curtin University

## Conferences

### SPARCS VII THE PRECURSORS AWAKEN

Oral Talk: Measuring and modeling the Galactic synchrotron emission distribution with the GLEAM survey

## Outreach

### 2014

Guild pupils to have a telescope viewing at Lakelands sky view night

### 2015

Talk about astronomy with a large variety of audience at the open day of Curtin University

### 2016

Introducing my work to high school students

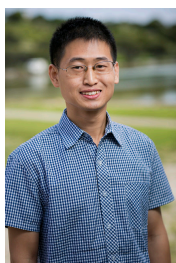
## Interests

Data analysis, Python, fits file operation, MCMC fitting

## Publications

### Journal papers

Su, H., Hurley-Walker, N., Jackson, C. A., McClure-Griffiths, N. M., Tingay, S. J., Hindson, L., Hancock, P., Wayth, R. B., Gaensler, B. M., Staveley-Smith, L., Morgan, J., Johnston-Hollitt, M., Lenc, E., Bell, M. E., Callingham, J. R., Dwarkanath, K. S., For, B.-Q., Kapinska, A. D., McKinley, B., Offringa, A. R., Procopio, P., Wu, C., and Zheng, Q. (2017a). *Galactic synchrotron emissivity measurements between  $250 < l < 355$  degrees from the GLEAM survey with the MWA*. **MNRAS**, 465:31633174.



Hongquan Su  
hongquan.su@icrar.org  
hongquansu.github.io  
+61 8 9266 1289

**Address**  
1 Turner Av  
Perth, WA 6102  
Australia

**Su, H.**, et al., *Galactic synchrotron emissivity measurements in the whole GLEAM survey area*. **MNRAS**, in prep.

**Su, H.-Q.**, Zhang, M.-F., Zhu, H., and Wu, D. (2017c). *The revised distance of supernova remnant G15.4+0.1*. **Research in Astronomy and Astrophysics**, 17:109.

Ai, M., Zhu, M., Xiao, L., and **Su, H.-Q.** (2013). *Properties of the UCHII region G25.4NW and its associated molecular cloud*. **Research in Astronomy and Astrophysics**, 13:935-944.

Hindson, L., Johnston-Hollitt, M., Hurley-Walker, N., Callingham, J. R., **Su, H.**, Morgan, J., Bell, M., Bernardi, G., Bowman, J. D., Briggs, F., Cappallo, R. J., Deshpande, A. A., Dwarakanath, K. S., For, B.-Q., Gaensler, B. M., Greenhill, L. J., Hancock, P., Hazelton, B. J., Kapinska, A. D., Kaplan, D. L., Lenc, E., Lonsdale, C. J., Mckinley, B., McWhirter, S. R., Mitchell, D. A., Morales, M. F., Morgan, E., Oberoi, D., Offringa, A., Ord, S. M., Procopio, P., Prabu, T., Shankar, N. U., Srivani, K. S., Staveley-Smith, L., Subrahmanyan, R., Tingay, S. J., Wayth, R. B., Webster, R. L., Williams, A., Williams, C. L., Wu, C., and Zheng, Q. (2016). *A Large-Scale, Low-Frequency Murchison Widefield Array Survey of Galactic HII Regions between  $260 < l < 340$* . **PASA**, 33:e020.

Zhu, H., Tian, W. W., Torres, D. F., Pedalletti, G., and **Su, H. Q.** (2013). *A Kinematic Distance Study of the Planetary Nebulae-Supernova remnant-HII Region Complex at G35.6-0.5*. **ApJ**, 775:95.

### Conference papers

**Su, H.**, Li, Q.-K., Zhu, H., and Tian, W.-W. (2013). *78 Pairs of Possible PSR-SNR Associations*. ArXiv e-prints.

**Su, H.**, Tian, W., Zhu, H., and Xiang, F. Y. (2014). *Kinematic Distances of SNRs W44 and 3C 391*. In Ray, A. and McCray, R. A., editors, *Supernova Environmental Impacts*, volume 296 of IAU Symposium, pages 372-373.

Tian, W., Leahy, D., Zhu, H., and **Su, H.** (2014a). *Two GeV-TeV Supernova Remnants without Associated Neutral and Molecular Clouds*. In Cami, J. and Cox, N. L. J., editors, *The Diffuse Interstellar Bands*, volume 297 of IAU Symposium, pages 229231.

Tian, W. W., Leahy, D. A., and **Su, H.** (2014b). *Multi-band Observation of TeV Supernova Remnants*. In Ray, A. and McCray, R. A., editors, *Supernova Environmental Impacts*, volume 296 of IAU Symposium, pages 374375.

Tian, W.-W., **Su, H.**, and Xiang, F. Y. (2013). *The Galactic NH - AV Relation and its Application to Historical Galactic SNRs*. ArXiv e-prints.

Zhu, H., Tian, W., **Su, H.**, and Wu, D. (2014). *Kinematic Distance of Galactic Radio Objects*. In Cami, J. and Cox, N. L. J., editors, *The Diffuse Interstellar Bands*, volume 297 of IAU Symposium, pages 232234.