

Publication List (Woorak Choi)



Publications

<1st Author>

- Title: Ram Pressure Stripping of the Multiphase ISM: A Detailed View from TIGRESS Simulations
- Author: **Woorak Choi**, Chang-Goo Kim, Aeree Chung
- DOI: <https://doi.org/10.3847/1538-4357/ac82ba>

- Title: WISDOM Project - XV. Giant Molecular Clouds in the Central Region of the Barred Spiral Galaxy NGC 5806
- Author: **Woorak Choi**, Lijie Liu, Martin Bureau, Michelle Cappellari, Timothy A. Davis, Fu-Heng Liang, Anan Lu, Thomas G. Williams, Aeree Chung
- DOI: <https://doi.org/10.1093/mnras/stad1211>

- Title: WISDOM Project – XXI. Giant Molecular Clouds in the Central Region of the Barred Spiral Galaxy NGC 613
- Author: **Woorak Choi**, Martin Bureau, Lijie Liu, Michelle Cappellari, Timothy A. Davis, Fu-Heng Liang, Anan Lu, Thomas G. Williams, Aeree Chung
- DOI: <https://doi.org/10.1093/mnras/stae1394>

<Co-Author>

- Title: WISDOM Project - X. The morphology of the molecular ISM in galaxy centres and its dependence on galaxy structure
- Author: Timothy A Davis, Jindra Gensior, Martin Bureau, Michele Cappellari, **Woorak Choi**, Jacob S Elford, J M Diederik Kruijssen, Federico Lelli, Fu-Heng Liang, Lijie Liu, Ilaria Ruffa, Toshiki Saito, Marc Sarzi, Andreas Schruba, Thomas G Williams
- DOI: [10.1093/mnras/stac600](https://doi.org/10.1093/mnras/stac600)

- Title: WISDOM project – XI. Star formation efficiency in the bulge of the AGN-host Galaxy NGC 3169 with SHELLE and ALMA

- Author: Anan Lu, Hope Boyce, Daryl Haggard, Martin Bureau, Fu-Heng Liang, Lijie Liu, **Woorak Choi**, Michele Cappellari, Laurent Chemin, Mélanie Chevance, Timothy A Davis, Laurent Drissen, Jacob S Elford, Jindra Gensior, J M Diederik Kruijssen, Thomas Martin, Etienne Massé, Carmelle Robert, Ilaria Ruffa, Laurie Rousseau-Nepton, Marc Sarzi, Gabriel Savard, Thomas G Williams
- DOI: [10.1093/mnras/stac1583](https://doi.org/10.1093/mnras/stac1583)

- Title: WISDOM Project – XII. Clump properties and turbulence regulated by clump-clump collisions in the dwarf galaxy NGC 404
- Author: Lijie Liu, Martin Bureau, Guang-Xing Li, Timothy A Davis, Dieu D Nguyen, Fu-Heng Liang, **Woorak Choi**, Mark R Smith, Satoru Iguchi
- DOI: [10.1093/mnras/stac2287](https://doi.org/10.1093/mnras/stac2287)
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- Title: WISDOM Project - XVII. Beam-by-beam Properties of the Molecular Gas in Early-type Galaxies
- Author: Williams, Thomas G, Bureau, Martin, Davis, Timothy A., Cappellari, Michele, **Choi, Woorak**, Elford, Jacob S, Iguchi, Satoru, Gensior, Jindra, Liang, Fu-Heng, Lu, Anan, Ruffa, Ilaria, Zhang, Hengyue
- DOI: <https://doi.org/10.1093/mnras/stad2455>

- Title: WISDOM project - XX. Strong shear tearing molecular clouds apart in NGC 524
- Author: Anan Lu, Daryl Haggard, Martin Bureau, Jindra Gensior, Sarah Jeffreson, Carmelle Robert, Thomas G Williams, Fu-Heng Liang, **Woorak Choi**, Timothy A Davis, Sara Babic, Hope Boyce, Benjamin Cheung, Laurent Drissen, Jacob S Elford, Lijie Liu, Thomas Martin, Carter Rhea, Laurie Rousseau-Nepton, Ilaria Ruffa
- DOI: <https://doi.org/10.1093/mnras/stae1395>

Paper in preparation

<1st Author>

- Title: High-resolution radio continuum observation using VLA of ram pressure stripping galaxy NGC 4522
- Author: **Woorak Choi**, Bumhyun Lee, Chang-Goo Kim, Aeree Chung

- Title: Structure and kinematics of molecular gas at the cloud scale in the simulated nuclear ring
- Author: **Woorak Choi**, Sanghyuk Moon, Chang-Goo Kim, Aeree Chung

<Co-Author>

- Title: WISDOM Project. Giant molecular clouds in the lenticular galaxy NGC 1387
- Author: Fu-Heng Liang, Martin Bureau, Lijie Liu, Timothy A Davis, Hope Boyce, Marc Sarzi, **Woorak Choi**, Jindra Gensior, Anan Lu

- Title: WISDOM Project. Giant molecular clouds in the spiral galaxy NGC 5064 reveal a high fraction of retrograde rotations
- Author: Lijie Liu, Fanglin Shu, Martin Bureau, Kyoko Onishi, Fu-Heng Liang, Timothy A Davis, **Woorak Choi**, Anan Lu