

Publication List (Woorak Choi)

 (ORCID: <https://orcid.org/0000-0001-5033-7208>)

Publications

<1st Author>

- Title: The impact of ram pressure on the radio spectral index and magnetic field of NGC 4522: A high-resolution VLA continuum study
- Author: **Woorak Choi**, Aeree Chung, Chang-Goo Kim, Bumhyun Lee, Luca Cortese, Toby Brown, Barbara Catinella, Eric Emsellem, Amelia Fraser-McKelvie, Jiayi Sun, Adam Watts
- Accepted to ApJ

- 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>

- 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: 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>

<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 SITEMLE 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)
- 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>
- Title: The resolved star-formation efficiency of early-type galaxies

- Author: Thomas G Williams, Francesco Belfiore, Martin Bureau, Ashley T Barnes, Frank Bigiel, **Woorak Choi**, Ryan Chown, Dario Colombo, Daniel A Dale, Timothy A Davis, Jacob Elford, Jindra Gensior, Simon CO Glover, Brent Groves, Ralf S Klessen, Fu-Heng Liang, Hsi-An Pan, Ilaria Ruffa, Toshiki Saito, Patricia Sánchez-Blázquez, Marc Sarzi, Eva Schinnerer
- DOI: <https://doi.org/10.1093/mnras/staf498>

- Title: WISDOM project – XXIII. Star-formation efficiencies of eight early-type galaxies and bulges observed with SITELLE and ALMA
- Author: Anan Lu, Daryl Haggard, Martin Bureau, Jindra Gensior, Carmelle Robert, Thomas G Williams, Fu-Heng Liang, **Woorak Choi**, Timothy A Davis, Ilaria Ruffa, Sara Babic, Hope Boyce, Michele Cappellari, Benjamin Cheung, Laurent Drissen, Jacob S Elford, Thomas Martin, Carter Rhea, Laurie Rousseau-Nepton, Marc Sarzi, Hengyue Zhang
- DOI: <https://doi.org/10.1093/mnras/staf675>

- Title: WISDOM Project – XXIV. Giant molecular clouds of the spiral galaxy NGC 5064: high fraction of retrograde rotation
- Author: Lijie Liu; Fanglin Shu; Martin Bureau; Kyoko Onishi; Timothy A Davis; Fu-Heng Liang; **Woorak Choi**; Thomas G Williams; Anan Lu; Satoru Iguchi
- DOI: <https://doi.org/10.1093/mnras/staf1159>

- Title: Multiphase Astrophysics to Unveil the Virgo Environment (MAUVE)
- DOI: <https://doi.org/10.18727/0722-6691/5393>

Paper in preparation

<1st Author>

- 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

- Title: PAHs and star forming regions of M 64 using JWST
- Author: **Woorak Choi**, Jiayi Sun, Christine Wilson

- Title: MAUVE-ALMA: Giant Molecular Clouds of Virgo cluster galaxies

- Author: **Woorak Choi**, Jiayi Sun, MAUVE team

<Co-Author>

- Title: WISDOM Project: Giant molecular clouds of the lenticular galaxy NGC 1387: similarities with spiral galaxy clouds
- Author: Fu-Heng Liang, Martin Bureau, Lijie Liu, Timothy A Davis, Hope Boyce, Marc Sarzi, **Woorak Choi**, Jindra Gensior, Anan Lu
- Title: MAUVE–MUSE: Environmental Transformation of the Ionized Interstellar Medium
- Author: Toby Brown, MAUVE team