## Jae Yeon (Marcie) Mun

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#### **Education**

Australian National University (ANU)

Canberra, Australia
Mar 2021 - present

Ph.D. in Astronomy & Astrophysics

- Primary supervisor: A/Prof. Emily Wisnioski

Seoul National University (SNU)

Seoul, Korea

M.S. in Astronomy

Mar 2018 - Aug 2020

- Advisors: Prof. Myung Gyoon Lee, Dr. Ho Seong Hwang

- Thesis: Star Formation Activity of Galaxies Undergoing Ram Pressure Stripping in the Virgo

Cluster

University of California, Los Angeles (UCLA)

B.S. in Astrophysics

Los Angeles, CA, USA Sep 2012 - Jun 2016

### **Research Appointments**

Korea Astronomy and Space Science Institute (KASI)

Daejeon, Korea Sep 2020 - Feb 2021

Visiting Researcher

- Host: Dr. Ho Seong Hwang

# **Teaching Experience**

Seoul National University (SNU)

Seoul, Korea

Graduate Teaching Assistant

Mar 2019 - June 2019 / Mar 2020 - June 2020

- Techniques in Astronomical Observation
- Covered topics ranging from basics of data reduction, aperture and PSF photometry, deep field photometry, to long-slit spectroscopy, along with the basics of IRAF and SExtractor.

#### **Publications**

- Park, H.-J., et al. (Mun, M.) (2024) The spatially resolved relation between dust, gas, and metal abundance with the TYPHOON survey, submitted to MNRAS.
- Derkenne, C., et al. (Mun, M.) (2024) The MAGPI Survey: Massive slow rotator population in place by  $z \sim 0.3$ , submitted to MNRAS.
- Mun, M., Wisnioski, E., Battisti, A.J., Mendel, J.T., Ellison, S.L., et al. (2023) *The MAGPI Survey: Evolution of radial trends in star formation activity across cosmic time*, under review in MNRAS.

- Chen, Q.-H., et al. (Mun, M.) (2024) The MAGPI Survey: effects of spiral arms on different tracers of the interstellar medium and stellar populations at  $z \sim 0.3$ , MNRAS, 527, 2991C.
- Bagge, R.S., et al. (Mun, M.) (2023) The MAGPI Survey: Drivers of kinematic asymmetries in the ionised gas of  $z \sim 0.3$  star-forming galaxies, PASA, 40, 60B.
- Lee, J.H., Lee, M.G., Mun, J.Y., Cho, B., Kang, J. (2022) A GMOS/IFU Study of Jellyfish Galaxies in Massive Clusters, ApJ, 940, 24.
- Lee, J.H., Lee, M.G., **Mun, J.Y.**, Cho, B., Kang, J. (2022) Enhanced Star Formation Activity of Extreme Jellyfish Galaxies in Massive Clusters and the Role of Ram Pressure Stripping, ApJL, 931, L22.
- Mun, J.Y., Hwang, H.S., Lee, M.G., Chung, A., Yoon, H., Lee, J.C. (2021) Star Formation Activity of Galaxies Undergoing Ram Pressure Stripping in the Virgo Cluster, JKAS, 54, 17.

### **Presentations**

### Conference talks / Colloquia

- Unifying observations and theory: Investigating radial trends in star formation across cosmic time with the MAGPI survey, Galaxy Transformation Across Space and Time 3rd ESO-Australia meeting, Australian Academy of Science, Canberra, Australia, Sep. 4-8, 2023
- Unifying observations and theory: Investigating radial trends in star formation across cosmic time with the MAGPI survey, Astronomical Society of Australia (ASA) Annual Science Meeting (ASM) 2023, Macquarie University, Sydney, Australia, Jul. 3-7, 2023
- Spatially resolving the star formation activity of galaxies at 3 4 Gyrs of lookback time with MAGPI, Epoch of Galaxy Quenching 2022, Kavli Institute for Cosmology, Cambridge, United Kingdom, Sep. 5-9, 2022
- Spatially resolving the star formation activity of galaxies at 3 4 Gyrs of lookback time with MAGPI, IAU Symposium 373: Resolving the Rise and Fall of Star Formation in Galaxies, Busan, Korea, Aug. 9-11, 2022
- The Effects of Ram Pressure Stripping on the Star Formation Activity of Galaxies in the Virgo Cluster, Invited, Korean Young Astronomers Meeting (K-YAM) Colloquium, Virtual, Nov. 19, 2021
- The Effects of Ram Pressure Stripping on the Star Formation Activity of Galaxies in the Virgo Cluster, Galaxy Evolution Workshop 2020, Virtual, Feb. 2-5, 2021

#### Selected poster presentations

• Mun, J.Y., Hwang H.S., Chung, A., Yoon, H., Lee, M.G. (2019) Examining the star formation properties of galaxies in the Virgo cluster undergoing ram pressure stripping. Korean Astronomical Society Spring Meeting, Busan, Korea, Apr. 10-12, 2019

### **Awards**

ANU RSAA Olin J Eggen Research Award (2,500 AUD)
ANU RSAA Supplementary Scholarship
ANU PhD Scholarship
Korean Astronomical Society (KAS) Rising Star Award (500,000 KRW)
SNU Merit-Based Scholarship

## Leadership and Services

ASTRO-3D ANU Student Representative	. Apr 2022 - Mar 2024
- Point of contact for student concerns at the ANU node of ASTRO-3D	
J J	
ASTRO-3D Student Committee Chair	. Apr 2023 - Mar 2024
- Lead the committee to run student workshops for networking & career dev	-
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### **Computational Skills**

Programming and Markup Languages

• Python, LATEX, IDL (basic), Bash (command line)

Software

• IRAF, SExtractor, GALFIT, LePhare, PSFex

## Collaborations/Memberships

- MAGPI (Middle Ages Galaxy Properties with Integral Field Spectroscopy)
- ASTRO-3D (ARC Centre of Excellence in All Sky Astrophysics in 3 Dimensions)
- ASA (Astronomical Society of Australia)