

MAN-YIN LEO LEE

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EDUCATION

- PhD Astronomy, University of California San Diego (UCSD)** **September 2024 - Present**
- MPhil Physics, The Chinese University of Hong Kong (CUHK)** **August 2022 - July 2024**
Thesis title: Temperature Measurement of LIERs and Properties of Optical Fibers with Different Core Geometries
Advisor: Renbin Yan
- BSc Physics, The University of Hong Kong (HKU)** **September 2017 - June 2021**
Thesis title: Searches for γ -ray Pulsars in the Galactic Centre region
Advisors: Stephen Chi-Yung Ng and Pablo Saz Parkinson

WORKING EXPERIENCE

- Research Assistant** **September 2021 - July 2022**
The Chinese University of Hong Kong
- Junior Research Assistant** **June 2021 - August 2021**
The University of Hong Kong

PUBLICATIONS

- Lee M.-Y.L.**, Yan R., Ji X., Algodon G., Westfall K., Lin Z., Belfiore F., & Bundy K. (2024). “Ionized gas in quiescent galaxies: Temperature Measurement and constraint on the ionization source” *A&A*, 690, A83
- Lee M.-Y.L.**, Lin Z., Hui C.-H., Yan R., Cheung Y., Hung H.T.-H., Bershadsky M., Chattopadhyay S., & Smith M. (2024). “Light scrambling and focal ratio degradation of thin multimode fibers with different core geometries” *Proc. SPIE*, 13096, 1309668
- Yan R.**, Bershadsky M., Chattopadhyay S., Cheung Y., **Lee M.-Y.L.**, Hui C.-H., Smith M., Loubser E., Lam Y.C., Lin Z., Hung H.T.-H., Qiao Y., Zhang J., Peng Z., Wong W.K., Lin Z., Liu Y., MacDonald N., Bundy K., & Westfall K. (2024). “Design and status update of the AMASE-P project” *Proc. SPIE*, 13096, 130967S
- Cheung Y.**, Hui C.-H., Yan R., Bershadsky M., Chattopadhyay S., **Lee M.-Y.L.**, Peng Z., Smith M., Liu Y., Loubser E. (2024). “Optical performance prediction of the AMASE-P system.” *Proc. SPIE*, 13096, 130969Z

POSTER AND CONFERENCE PRESENTATION

Conference Presentations

- **Lee M.-Y.L.**, Yan R., Ji X., & Lin Z., “Ionized gas in quiescent galaxies: Temperature measurement and constraint on the ionization source”, East Asian Young Astronomers Meeting 2024; January 2024; Chiang Mai, Thailand.
- **Lee M.-Y.L.**, Yan R., & Ji X., “The ‘shocking’ ionization mechanism of LIERs”, International Conference on Resolving Galaxy Ecosystems Across All Scales; December 2023; Hong Kong, China.

Poster Presentations

- **Lee M.-Y.L.**, Lin Z., Hui C.-H., Yan R., Cheung Y., Hung H.T.-H., Bershadsky M., Chattopadhyay S., & Smith M. (2024). “Light scrambling and focal ratio degradation of thin multimode fibers with different core geometries.” *SPIE Astronomical Telescopes + Instrumentation*; June 2024; Yokohama, Japan.
- **Lee M.-Y.L.**, Yan R., Ji X., & Lin Z., “Ionized gas in quiescent galaxies: Temperature measurement and constraint on the ionization source”, The 243rd Meeting of the American Astronomical Society; January 2024; New Orleans LA.

- **Lee M.-Y.L.** & Yan R., “Temperature measurement of low-ionization gas in quiescent galaxies as a constraint on the ionizing source”, The 25th Chinese Astronomical Society Guoshoujing Symposium on Galaxies and Cosmology; May 2023; Huangshan, China.
- **Lee M.-Y.L.** & Yan R., “Watching Aurora in Passive Galaxies: Temperature measurement and constraint on ionization source”, Research Poster Exhibition; May 2023; University Library, CUHK. (Honorable Mention Award ;4th out of >60 participants from all disciplines)
- **Lee M.-Y.L.** & Uvaliyev A., “Machine Learning at the Pixel Level to Improve the Low-Energy Sensitivity of the MAGIC Telescopes”, Research Jamboree; August 2021; The Laboratory of Space Research, HKU. (Best Presenter Award)

TEACHING EXPERIENCE

Teaching Assistant, Department of Astronomy & Astrophysics, UCSD

- Spring 2025: ASTR15 Astronomy in Science Fiction
- Fall 2024: ASTR20A Intro to Astrophysics I

Teaching Assistant, Department of Physics, CUHK

- Winter 2024: UGEB2411 Astronomy – A Short Introduction
- Summer 2023: UGEB2402 Origins – From Cosmos to Life
- Winter 2023: UGEB2401G Astronomy
- Fall 2022: PHYS2711 Physics Laboratory II

OTHER PROFESSIONAL EXPERIENCE

Local Organizing Committee

International Conference on Resolving Galaxy Ecosystems Across All Scales
The Chinese University of Hong Kong

AWARD AND SCHOLARSHIP

Postgraduate studentships, CUHK	August 2022 - July 2024
Summer Research Fellowship, HKU	May 2020 - August 2020
Reaching Out Award, HKSAR Government Scholarship Fund	April 2020
HKU Worldwide Undergraduate Student Exchange Scholarship, HKU	April 2020

LEADERSHIP AND OUTREACH EXPERIENCE

Residence Tutor Adam Schall Residence, United College, CUHK	September 2022 - July 2024
Student Mentor Hong Kong Joint School Astronomical Society	September 2017 - July 2024
Exchange Intern AIESEC Bratislava	July 2019 - August 2019
Summer Intern, Exhibition Team The Hong Kong Space Museum	May 2019 - July 2019

SKILLS AND LANGUAGES

Programming Languages	Python, C, C++, C#, Java, Bash, L ^A T _E X
Professional Software	Solidworks, NX, Ultimaker Cura, Zemax, Lumerical
Language Proficiency	Cantonese: Native, English: Fluent, Mandarin: Fluent
IELTS result (October 2023)	Overall 8.0, Listening 9.0, Reading 8.0, Writing 7.0, Speaking 7.0