

MINH NGOC LE

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🌐 <https://le-mn.github.io/minhngocle.github.io/>

RESEARCH INTERESTS

Parsec-scale	how turbulence affects star formation in molecular clouds, globular cluster formation
Kiloparsec-scale	using globular clusters to study galaxy formation & evolution
Megaparsec-scale	galaxy – dark matter halo connection

EDUCATION

2020 – present	National Tsing-Hua University, Taiwan MSc. in Astronomy (expected) Thesis: Constraints on globular cluster formation using large sky surveys Supervisor: Dr. Andrew Cooper GPA: 4.15/4.3
2014 – 2018	University of Science, Vietnam National University in Ho Chi Minh City BSc. in Physics, major: Theoretical Physics Thesis: Inflation via Higgs-Dilaton potential in Two-Time Physics Supervisor: Dr. Vo Quoc Phong

RESEARCH EXPERIENCE

2023 Jun – Aug	LEAPS Intern at Leiden Observatory Advisor: Dr. Piyush Sharda, Dr. Mathilde Bouvier, and Prof. Serena Viti Topic: Quantifying molecular gas turbulence in the low-metallicity Large Magellanic Cloud
2019 Oct – Dec	Intern at Academia Sinica Institute of Astronomy and Astrophysics, Taiwan Advisor: Dr. Teppei Okumura and Dr. Aniket Agarwal Topic: Finite volume effect on the dark matter halos' velocity correlation statistics

PRESENTATIONS

- 2023.05 **Poster: Primordial globular cluster formation models could explain the relation between globular cluster number – dark matter halo mass**
2023 Scientific Assembly of the Astronomical Society of the Republic of China, Taiwan.
- 2023.02 **Poster: Primordial globular cluster formation models could explain globular cluster number – halo mass relation (link to poster)**
IAU 377 Symposium: Early Disk-Galaxy Formation from JWST to the Milky Way, Malaysia.
- 2020.01 **Seminar: Velocity correlation function: discrepancies between simulation and theory prediction**
International Center for Interdisciplinary Science and Education (ICISE), Quy Nhon, Vietnam.
- 2019.12 **Lunch talk: Velocity correlation function: discrepancies between simulation and theory prediction**
Academia Sinica Institute of Astronomy and Astrophysics, Taiwan.
- 2019.08 **Oral presentation: “Inflation via Higgs-Dilaton potential in Two-Time Physics”**
15th Rencontres du Vietnam: Cosmology 2019, ICISE Quy Nhon, Vietnam.
- 2019.02 **Poster: “Inflation Scenarios via Dilaton in Two-Time Physics”**
2019 Asian-Pacific Winter School and Workshop on Gravitation and Cosmology
Yukawa Institute for Theoretical Physics, Kyoto University, Japan.

SCHOLARSHIPS AND AWARDS

National Tsing Hua University Outstanding Students Scholarship	school year 2021 – 2022
National Tsing Hua University Outstanding Students Scholarship	school year 2020 – 2021
Vu Dinh Lieu scholarship for students from Tra Vinh province	2016 and 2017
University of Science VNU-HCM Outstanding Scholarship	school year 2015 – 2016
Dong Hanh Association Scholarship	school year 2015 – 2016

SKILLS

Computational skills	Python, FORTRAN, C ⁺⁺ , GitHub, cluster computing resources
Software & Packages	Unix/Linux, Mac OS, L ^A T _E X, MCMC, AstroPy, CASA, DS9
Data handling	DESI Legacy Surveys, ALMA
Languages	Vietnamese (mother tongue), English (TOEFL iBT 91), Mandarin (basic)

OTHER ACTIVITIES

- 2020 - 2021 **Volunteer of NTHU Care Life club**
Taking care of stray dogs in NTHU Campus
- 2019 - 2020 **Part-time STEM teacher at Ephata Summer School and STEMax**
Engaging & instructing students from 10 - 15 years old to do science experiments
- 2016 **Head of the Organizing Committee, the Racer Hero contest**
Organizing a contest for undergraduate and high school students: making controlled cars using Arduino
- 2015 - 2016 **Chairperson of NES Academic Club, University of Science VNU - HCM**
Organizing club discussions on Physics in English