Minh Ngoc Le

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https://le-mn.github.io/minhngocle.github.io/

RESEARCH INTERESTS

The dark side: nature of dark matter & dark energy

The bright side: galaxy formation & evolution, stellar globular cluster formation, star formation

EDUCATION

2020 - present National Tsing-Hua University, Taiwan

MSc. in Astronomy (expected)

(Ongoing) Thesis: Globular Clusters formed inside Dark Matter Halos

Supervisor: Dr. Andrew Cooper

GPA: 4.15/4.3

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 LEAPS Internship 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 Internship at Academia Sinica Institute of Astronomy and Astrophysics, Taiwan

Advisor: Dr. Teppei Okumura and Dr. Aniket Agarwal

Topic: Finite volume effect on the velocity correlation statistics

PRESENTATIONS

2023.05 Poster: Primordial globular cluster formation models could explain the relation between globular cluster number – dark matter halo mass

at the 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

at 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

at International Center for Interdisciplinary Science and Education (ICISE), Quy Nhon, Vietnam.

2019.12 Lunch talk: Velocity correlation function: discrepancies between simulation and theory prediction

at Academia Sinica Institute of Astronomy and Astrophysics, Taiwan.

2019.08 Oral presentation: "Inflation via Higgs-Dilaton potential in Two-Time Physics"

at 15^{th} Rencontres du Vietnam: Cosmology 2019, ICISE Quy Nhon, Vietnam.

2019.02 Poster: "Inflation Scenarios via Dilaton in Two-Time Physics"

at 2019 Asian-Pacific Winter School and Workshop on Gravitation and Cosmology Yukawa Institute for Theoretical Physics, Kyoto University, Japan.

SCHOLARSHIPS

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

TECHNICAL SKILLS

Computer Languages C⁺⁺, Python, FORTRAN

Software & Tools Unix/Linux, Mac OS, LATEX, MCMC, cluster computing resources

Astrophysical tools CLASS, Corrfunc, AstroPy

Languages English (TOEFL iBT 91), Vietnamese (mother-tongue)

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