

# Minh Ngoc Le

lmngoc1509@gmail.com

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

## RESEARCH INTERESTS

---

Large-scale structure  
Halo occupation distribution model  
Galaxy formation & evolution  
Inflation & Early universe

## 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
- 2019                **Internship at Academia Sinica Institute of Astronomy and Astrophysics, Taiwan**  
Advisor: Dr. Teppei Okumura  
Topic: Finite volume effect on the velocity correlation statistics
- 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

## PRESENTATIONS

---

- 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.
- 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<sup>th</sup> 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

---

<b>Computer Languages</b>	C++, Python, FORTRAN
<b>Software &amp; Tools</b>	Unix/Linux, Mac OS, L <sup>A</sup> T <sub>E</sub> X, MCMC, cluster computing resources
<b>Cosmo/Astrophysical tools</b>	CLASS, Corrfunc, AstroPy
<b>Languages</b>	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