

TRINH Ngan

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EDUCATION

Master's Student (M2) in Earth, Planetary Science and Environment (STePE) Sep 2024 - Present
École normale supérieure - PSL

- M1 Moyenne annuelle: 17.0/20.0
- M2 Moyenne 1er semestre: 16.1/20.0

Bachelor's Degree in Space Science and Satellite Technology Oct 2021 - Aug 2024
University of Science and Technology of Hanoi (USTH)

- GPA: 17.34/20.0

ACHIEVEMENTS

- **2024-2026:** Université PSL's scholarship for the Master STePE
- **2023-2024:** USTH Internship Scholarship level A1 to conduct thesis internship abroad
- **2023-2024:** USTH Scholarship level A2 for excellent academic performances
- **2023:** Bronze Medal (Calculus) in Vietnam National Student Olympiad in Mathematics 2023
- **2022-2023:** USTH Scholarship level A2 for excellent academic performances

RESEARCH EXPERIENCE

Dynamics of Storms and Moist Convection in Jupiter's Atmosphere | *Internship* March 2026 - Present
 • Supervisor: Sandrine Guerlet (Laboratoire de Météorologie Dynamique)
 • Keywords: Planetary Atmosphere, Cloud-Resolving Model (CRM), Numerical Modeling (Fortran)

Hydrogen Diffusion and Escape in the Martian Thermosphere | *Internship* March - July 2025
 • Supervisor: Alexander Medvedev (Max Planck Institute for Solar System Research)
 • Keywords: Planetary Atmosphere, General Circulation Model (GCM), Numerical Modeling (Python, Fortran)
 • Manuscript under review: Medvedev, A. S., & Trinh, N. H. D. *Thermal Escape of Atomic Hydrogen From Mars: A View With a General Circulation Model.*

Chemical Evolution of Ocean Worlds | *Internship* April - July 2024
 • Supervisors: Olivier Mouis, Alizée Amsler Moulanier (Aix-Marseille Université, France)
 • Keywords: Planetary Science, Physical Chemistry, Numerical Simulation, Modelization (Python)
 • **Co-authored:** [Amsler Moulanier et al. \(2025\)](#)

Radiative Cooling of Molecular Gas under Self-gravitating Collapse | *Internship* July - August 2023
 NCTS-TCA Summer Student Program 2023, International Internship Pilot Program (Taiwan)
 • Supervisor: Yueh-Ning Lee (National Taiwan Normal University)
 • Keywords: Theoretical Astrophysics, Fluid Dynamics, Calculus, Numerical Analysis (Python)

WORKSHOP/CONFERENCE

NCTS Mini-workshop on Theoretical and Computational Astrophysics | *Participant* Jul 2023
 National Center for Theoretical Science, Taiwan

Hardware Camp for Fast and Low-light Detection | *Participant* 26 Feb - 04 Mar 2023
 International Centre for Interdisciplinary Science and Education (ICISE)

SAGI Astrophysics Workshop | *Participant* 25 - 28 July 2022
 International Centre for Interdisciplinary Science and Education (ICISE)

Vietnam School on Neutrinos (VSON6) | *Participant* 10 - 22 July 2022
 International Centre for Interdisciplinary Science and Education (ICISE)

EXTRACURRICULAR ACTIVITIES

Organizer of SpaceTalk | *Representative, Host*

Oct 2022 - Feb 2024

University of Science and Technology of Hanoi

- Organized space-related seminars to spread knowledge about scientific topics to the public
- Contacted speakers, planned schedules and managed preparations for events
- Successfully coordinated [13 SpaceTalk events](#): from SpaceTalk #69 to SpaceTalk #81

Member of Astrophysics Club (VLTV) | *Academic Team*

2022 - 2024

University of Science and Technology of Hanoi

SKILLS

Programming: Python, FORTRAN, C/C++, MATLAB, \LaTeX , HTML

Miscellaneous: Linux, Jupyter Notebook, VS Code, Git/Github, ENVI

Languages: English (Professional proficiency), Vietnamese (Native proficiency), French (Intermediate)

Soft skills: Leadership, Communication, Teamwork, Time Management, International experience