Ph.D. Thuong Duc HOANG

https://hoangducthuong.github.io/

PERSONAL DETAILS

Degree	Ph.D in physics of the Universe at Paris University
Birth	April 12, 1989
Nationality	Vietnam
Email	thuong.hoang@ipmu.jp
Address	Kavli IPMU, The University of Tokyo, 5-1-5 Kashiwanoha, Kashiwa, Chiba, 277-8583, Japan.

EDUCATION & EXPERIENCE

Postdoc `2021-present`
Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU), The University of Tokyo - Japan

Develop the Polarization Modulator Unit of the LiteBIRD Low Frequency Telescope (LFT). Advisor: Prof. Tomotake Matsumura

Lecturer/researcher `2020-2021`
University of Science and Technology of Hanoi (USTH)-Vietnam

Teaching modules: Basic programming (C) ; Data Analysis & Visualization (python); Modern cosmology; Practical work: Advanced electronic system

Postdoctoral scholar `2019-2020`
Cornell University - United States

Testbed focal plane detectors for the Simons Observatory. Supervisor: Prof. Michael Niemack

Ph.D. in AstroParticle and Cosmology (APC) laboratory `2015-2018`
Paris University-France

- Title: Optimization of future projects for the measurement of Cosmic Microwave Background polarization. (Bandpass filters mismatch systematic effect for LiteBird satellite & Interaction of particles with 256 superconducting Transition Edge Sensors array of QUBIC ground-based experiment). Supervisors: Assoc. Prof. Guillaume Patanchon. [dissertation]
- 21-22 December 2017 Paris-France, my initiative: 1st Meeting of Young Vietnamese Community of Astronomy (YVCA), APC, Paris University. Program: https://space.usth.edu.vn/en/news/news-events/yvca-program-127.html

Master Space Science & Applications `2012-2014`
Double-Diploma: Observatoire de Paris and University of Science and Technology of Hanoi (USTH).

- 3/2014 - 9/2014: Master thesis: Cosmic ray interaction with Planck satellite detectors for the measurement of the Cosmic Microwave Background (CMB) radiation polarization with Dr. Guillaume Patanchon at the APC laboratory.

Electrical Engineering `2007-2012`
Hanoi University of Science and Technology (HUST), School of electrical engineering. Diploma: Degree of Engineer in Control and Automation Engineering.

- 2011 - 2012: Lab work: ABB - HUST training center (teamleader). ABB is a global group in power and automation technologies.

High School: Hai Phong-Vietnam `2004-2007`
The top pupil in math, physic and chemistry.

LANGUAGE

- English: Fluent

- French: Intermediate

- Japanese: Beginner

- Vietnamese: Native

SKILLS [SIMULATION, INSTRUMENTATION & DATA ANALYSIS]

- Simulation of physical processes/ Data analysis.

- Electronic and mechanical experiences.

- Python (Advanced), C/C++ (intermediate), Bash shell (Basic), Matlab (Intermediate), Labview (intermediate).

- TOAST (Time Ordered Astrophysics Scalable Tools) (intermediate), Root (Basic).

- Solidwork (Advanced), Catia v5/ v6 (Intermediate), AutoCAD (Intermediate).

- ANSYS (Basic)

- OrCAD/Altium Designer (Intermediate), Layout Editor / Klayout (Basic).

- Window/Linux/Mac OS (Advanced), Microsoft Office/Open Office/Keynote (Advanced).

- Latex (Advanced).

- Adobe Photoshop/Lightroom/Premiere (Intermediate).

- WordPress/HTML/CSS (Intermediate).

- Photography (Intermediate), guitar player (Intermediate).

- Ping-pong/badminton (Intermediate).

- Astronomy facebook fanpage (≈ 12000 likers): https://www.facebook.com/thienvanhoc.org/

- Google Scholar: https://scholar.google.com/citations?hl=en&user=X6_u9x0AAAAJ&view_op=list_works&sortby=pubdate