Ph.D. Thuong Duc HOANG

https://hoangducthuong.github.io/
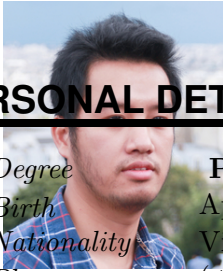
PERSONAL DETAILS

Degree   **Ph.D in physics of the Universe at Paris University**
Birth   April 12, 1989
Nationality   Vietnam
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Phone   (+84) 396158683
Address   Department of Space and Applications, University of Science and Technology of Hanoi (USTH), 18 Hoang Quoc Viet, Hanoi, Vietnam.

EDUCATION & EXPERIENCE

Lecturer/researcher   2021-now

Department of Space and Applications - University of Science and Technology of Hanoi (USTH)-Vietnam

Teaching modules:

- Data Analysis & Visualization

- Modern cosmology

Postdoctoral scholar   2019-2020

Cornell University - United States

Testbed focal plane detectors for the Simons Observatory and optimization survey strategies for ground-based Cosmic Microwave Background (CMB) experiments at the Atacama desert in Chile. Supervisor: Prof. Michael Niemack

Ph.D. in AstroParticle and Cosmology (APC) laboratory   2015-2018

Paris Diderot 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 & Dr. Damien Prele. [dissertation]

- 21-22 December 2017 Paris-France, my initiative: 1st Meeting of Young Vietnamese Community of Astronomy (YVCA), APC laboratory, Paris Diderot 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.

- 4th - 10th 8/2013: Participation to the Rencontres du Viet Nam-Vietnam School of Physics on Astrophysics and Cosmology.

- 6/2013 - 9/2013: (M1 thesis) Design the Software Monitoring the Operation Sequence and State of Satellite VNREDSat-1 (Vietnam Natural Resources, Environment and Disaster Monitoring Satellite) in the Space Technology Institute (STI)-Vietnam Academy of Science and Technology (VAST).

Electrical Engineering `2007-2012`

Hanoi University of Science and Technology (HUST), School of electrical engineering, department of instrumentation and industrial informatics. 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

SKILLS [SIMULATION, INSTRUMENTATION & DATA ANALYSIS]

- Simulation of physical processes/ Data analysis.

- Electronic and mechanical experiences.

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

- TOAST (Time Ordered Astrophysics Scalable Tools) (intermediate)

- Matlab (Intermediate).

- OrCAD/Altium Designer (Intermediate), Labview (Basics).

- Layout Editor / Klayout (Basic).

- Root (Basic).

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

- Latex (Advanced).

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

- Adobe Photoshop/Lightroom/Premiere (Intermediate).

- WordPress/HTML/CSS (Intermediate).

- Photography (Intermediate), caligraphy (Basic), 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?user=X6_u9x0AAAAJ&hl=en