Dang Pham (Pham Cao Đăng)

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EDUCATION

University of Toronto

08/2020 - Present

PhD in Astronomy and Astrophysics.

Advisor: Professor Hanno Rein.

CORNELL UNIVERSITY, College of Arts and Sciences

08/2016 - 05/2020

Bachelor of Arts. Majors: Physics, Mathematics. Minors: Astronomy, Archaeology.

Senior thesis: Bounded cosmic string backreaction and connecting Green's functions for the wave equation.

PUBLICATIONS

- 5. **D. Pham**, L. Kaltenegger; "Follow the Water: Photometry using Machine Learning and Bayesian Inference", *submitted to MNRAS*.
- 4. M. Schlecker, **D. Pham**, R. Burn, Y. Alibert, C. Mordasini, A. Emsenhuber H. Klahr, Th. Henning, L. Mishra; "The Determinism of Global Planet Formation Models", 2021, *A&A*, 656, A73.
- 3. **D. Pham**, L. Kaltenegger; "Color Classification of Earth-like Planets with Machine Learning", 2021, MNRAS, 504, 6106.
- 2. A. Harding, R. Di Stefano, S. Lépine, J. Urama, **D. Pham**, C. Baker; "Predicting Gravitational Lensing by Stellar Remnants", 2018, MNRAS, 475, 79.
- 1. E. S. Chen, H. Keith, T. Lim, **D. Pham**, R. Rosenthal, C. Herder, S. Pai, R. A. Flores, E. C. M. Chen; "Hylleraas hydride binding energy: diatomic electron affinities", 2015, *Journal of Molecular Modeling*, 21, 79.

Awards and Honors

2021 -
2020 -
2020 -
2019
2018, 2019
2018
2017

EMPLOYMENT

Research Associate at the Department of Astronomy, Cornell University.	08/2020 - 12/2020
Research Intern at the Max-Planck Institute for Astronomy (MPIA).	05/2019 - 08/2019
Resident Advisor at the Holland International Living Center.	08/2017 - 05/2020

TEACHING EXPERIENCE

AST 251: Life on Other Worlds.	2022
AST 320: Introduction to Astrophysics.	2022
AST 101: Our place in the Universe.	2021
AST 201: Stars and Galaxies.	2021

LEADERSHIP, SERVICE AND OUTREACH

Undergraduate - Graduate Students Mentor.

2021 -

• Mentor two undergraduate students at the University of Toronto, advising on graduate school admissions and research.

AstroTours. Photographer & social media director.

2021 -

 Monthly organization of AstroTours, a public outreach program to communicate astronomy research. Manage social media presence for the organization.

Graduate Astronomy Students Association.

2020 -

• Course and Qualifying Exams committee, AstroTours executive committee, Mentorship committee.

Cornell Astronomical Society.

2016 - 2020

• Weekly outreach events, include opening Fuertes Observatory for visitors. Operated telescopes including a 100 years old, 12 inches Brashear refractor.

Cornell Society of Physics Students. President, Secretary, Webmaster.

2016 - 2020

 Participated in weekly outreach events, such as Sagan Walk or Expand Your Horizons (EYH). As president, managed an annual budget of \$5000, increased the club's funding by \$1000; initiated events to increase first-year students participation in introductory Physics classes; led efforts to foster diversity and inclusion in the Physics major.

Peer Mentor with the Cornell University Department of Physics.

2019

TECHNICAL SKILLS

Programming languages (scientific computing): Python, Mathematica, Julia, C++ and Rust.

HPC cluster: SLURM – used the DRACO computing cluster (Garching, Germany).

Languages: Vietnamese and English. Fluent.