

Dang Pham (Phạm Cao Đăng)

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EDUCATION

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| University of Toronto | 09/2020 - |
| PhD in Astrophysics | |
| Advisor: Professor Hanno Rein | |
| Cornell University , College of Arts and Sciences | 08/2016 - 05/2020 |
| Bachelor of Arts in Physics, Mathematics | |

PUBLICATIONS

FIRST AND SECOND AUTHOR

1. **D. Pham**, H. Rein. Polluting White Dwarfs with Oort Cloud Comets, 2024, *MNRAS*, accepted, .
2. **D. Pham**, H. Rein, D.S. Spiegel. A new timestep criterion for N-body simulations, 2024, *OJAp*, 7, 1.
3. **D. Pham**, L. Kaltenegger. Follow the water: finding water, snow, and clouds on terrestrial exoplanets with photometry and machine learning, 2022, *MNRAS Letters*, 513, L72.
4. **D. Pham**, L. Kaltenegger. Color Classification of Earth-like Planets with Machine Learning, 2021, *MNRAS*, 504, 6106.
5. M. Schlecker, **D. Pham**, et al.. The Determinism of Global Planet Formation Models, 2021, *A&A*, 656, A73.

CONTRIBUTING AUTHOR

6. J. Li, L. Kaltenegger, **D. Pham**, D. Ruppert. Characterization of extrasolar giant planets with machine learning , 2024, *MNRAS Letters*, 527, L137.
7. A. Harding et al. including **D. Pham**. Predicting Gravitational Lensing by Stellar Remnants, 2018, *MNRAS*, 475, 79.

SELECTED HONORS AND AWARDS

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| University of St. Michael's College Junior Fellow. | 2023 |
| International Graduate Student Fellowship for Excellence in Doctoral Studies. | 2022 |
| Frank S. Hogg Memorial Fellowship. | 2021 |
| David A. Dunlap Department of Astronomy & Astrophysics Entrance Award. | 2020 |
| Summer Research Fellowship. Max-Planck-Institut für Astronomie. | 2019 |

PROFESSIONAL EXPERIENCE

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| Teaching Assistant. University of Toronto. | 2021 - |
| Research Associate. Department of Astronomy, Cornell University. | 2020 |
| Research Intern. Max-Planck-Institut für Astronomie. | 2019 |

OUTREACH

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| Volunteer for the Toronto Astro On Tap. | 2022 - |
| Various astronomy outreach events for the University of Toronto. | 2022 - |
| AstroTours. | 2021 - |
| <ul style="list-style-type: none"> Organizing monthly AstroTours, a public astronomy outreach program by graduate students. | |
| Cornell Astronomical Society. | 2016 - 2020 |
| <ul style="list-style-type: none"> Participated on weekly Friday nights; opened Fuertes Observatory for visitors and operated telescopes including a 100 years old, 12-inches Brashear refractor. | |

MENTORSHIP

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| Juror/Juror Chair, Canadian Young Physicists' Tournament (CaYPT). | 2022 - 2024 |
| <ul style="list-style-type: none">• Evaluated and provided feedback for physics projects by high school students. | |
| Physics Directed Reading Program | 2022 - 2023 |
| <ul style="list-style-type: none">• Supervised two undergraduate students directed readings on cosmology and general relativity. | |
| Graduate Peer Mentor, University of Toronto. | 2022 |
| <ul style="list-style-type: none">• Mentored an incoming graduate student. | |
| Undergraduate Mentor, University of Toronto. | 2021 |
| <ul style="list-style-type: none">• Mentored two undergraduate students, advising on graduate school admissions and research. | |
| Peer Mentor, Cornell University Department of Physics. | 2019 |

LEADERSHIP

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| Department Community Climate Committee. | 2022 - 2024 |
| AstroTours Co-Director. | 2022 - 2023 |
| Graduate Astronomy Students Association. | 2020 - |
| <ul style="list-style-type: none">• Committees: Course and Qualifying Exams, AstroTours executive, Faculty hire, Social. | |
| Astronomy & Astrophysics Summer Undergraduate Research Program (SURP) Organizing Committee. | 2023 |
| Statistics and Machine Learning (SMILE) Organizing Committee. | 2023 |
| Local Organizing Committee, SDSS V and CITA Planet Day. | 2022 |
| Cornell Society of Physics Students. President, Secretary, Webmaster. | 2016 - 2020 |
| <ul style="list-style-type: none">• Participated in outreach events, such as Sagan Walk and 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 Physics classes; led efforts to foster diversity and inclusion in the Physics major. | |

TEACHING ASSISTANCE EXPERIENCE

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| AST 325, AST Co2: Practical Astronomy. | 2022 - 2024 |
| AST 320: Introduction to Astrophysics. | 2022 |
| AST 251: Life on Other Worlds (Head Grading TA). | 2022 - 2024 |
| AST 201: Stars and Galaxies. | 2021 |
| AST 101: Our Place in the Universe. | 2021 |

CONFERENCE PRESENTATIONS

4. "Can exo-Oort Clouds Pollute White Dwarfs?" (Poster). Protostar & Planets VII, Kyoto, Japan. 2023.
3. "Polluting White Dwarfs with Comets", Great Lakes Exoplanet Area Meeting, Ohio State University. 2022.
2. "Photometric Prioritisation of Earth-like Planets". Statistics and Machine Learning (SMILE), University of Toronto. 2022.
1. "Can exo-Oort Clouds Pollute White Dwarfs?". Emerging Researchers in Exoplanet Science VII, Pennsylvania State University. 2022.