

Curriculum Vitae

Tuyen Manh Pham, M.Sc.

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Research interests

- Cosmology 📖 Cosmic inflation, Cosmic no-hair conjecture, inflationary models of non-canonical scalar fields, scalar-tensor gravity, Gauss-Bonnet gravity, Hubble tension, CMB physics, Dark Energy
- Gravitational physics 📖 Black holes, wormholes, and gravitational waves
- Computer Science 📖 Machine Learning, Data Analysis

Education

- 2020 – 2022 📖 **M.Sc. Physics, Graduate University of Science and Technology, Vietnam Academy of Science and Technology** in Theoretical and Mathematical Physics
Major: Theoretical and Mathematical Physics ([diploma](#))
Thesis title: *Study inflationary solution in k -Gauss-Bonnet model*
Advisor: Dr. Tuan Q. Do
GPA: 3.74/4 ([transcript](#))
- 2016 – 2020 📖 **B.Sc. Physics, VNU University of Science, Vietnam National University, Hanoi**
Major: Theoretical and Mathematical Physics ([diploma](#))
Thesis title: *The eikonal approximation for high energy scattering problem in quantum mechanics*
Advisor: Prof. Nguyen Xuan Han
GPA: 3.62/4 ([transcript](#))

Employment History

- 2020 – pres 📖 **Research Assistant**, Phenikaa Institute for Advanced Study, Phenikaa University
Job Description: Study some cosmic inflation models in scalar-tensor theory focusing on the Bianchi type I spacetime, scalar-Gauss-Bonnet gravity, Starobinsky gravity, and two-form scenarios.
- 2020 – 2022 📖 **Master Student**, Graduate University of Science and Technology, Vietnam Academy of Science and Technology

Research Publications

Activities

Advanced Summer School

- 09/07/2023 - 29/07/2023 Attendant in Advanced Summer School in Quantum Field Theory and Quantum Gravity (QFTQG2023)
Place: ICISE, the International Center for Interdisciplinary Science and Education in Quy Nhon, Vietnam
Link: <https://indico.in2p3.fr/event/28684/>

Scientific talks

- 01/08/2022 - 04/08/2022 Title: *A novel k -Gauss-Bonnet power law inflation model*
Even: 47th Vietnam Conference on Theoretical Physics (VCTP-47), Tuy Hoa
Date: 01 - 04 August 2022 Tuy Hoa, Vietnam
Link: <https://iop.vast.vn/vctp/47/>

Short internship

- 26/07/2019 - 26/08/2019 2019 KAIX Summer Internship Program at Korea Advanced Institute of Science & Technology (KAIST), Daejeon, South Korea
Best Presenter Award at the final presentation at KAIST.
Link: [2019 KAIX summer internship program](#)

Vietnam student olympiad physics

- 20/04/2019 - 20/05/2019 Participated in theoretical physics olympiad team HUS for Vietnam students
Consolation prize at Vietnam Student Physics Olympiad in Theoretical Olympiad Team HUS

Skills

- Languages Strong reading, writing, and speaking competencies in English, Vietnamese
Coding Mathematica, Python, Maple, \LaTeX , ...
Misc. Academic research, teaching, training, \LaTeX typesetting, and publishing

Miscellaneous Experience

Awards and Achievements

- 2019 **Consolation prize**, Vietnam Student Physics Olympiad in Theoretical Olympiad Team HUS
27/03/2019 **The 5th Nguyen Hoang Phuong Award 2019**, VNU University of Science, Hanoi
26/08/2019 **Best Presenter Award at the final presentation at KAIST**, Korea Advanced Institute of Science and Technology (KAIST), Daejeon
2017-2018 **BIDV Scholarship in 1st semester 2017-2018**, Hanoi

Certification

- 2023 **Certificate of English Proficiency** by University of Languages and International Studies, VNU, Level 4 (B2)
2022 **Certificate of English Proficiency** by Thai Nguyen University, Level 4 (B2)
2019 **Certificate for KAIX Summer Internship Program** at Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea
27/03/2019 **The 5th Nguyen Hoang Phuong Award 2019**, VNU University of Science, Hanoi
2017 & 2018 **Outstanding Youth Award** Awarded by VNU University of Science, Hanoi

Miscellaneous Experience (continued)

2017



Certificate of English Proficiency University of Languages and International Studies,
VNU

References

Tuan Q. Do

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Hanoi, Vietnam.

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Cao H. Nam

Doctoral

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Phung Van Dong

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