



Luu Huu Phuc

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💬 **Skype:** live:phucdoitoan 🐦 **Twitter:** <https://twitter.com/phucdoitoan>

Gender: Male **Date of birth:** 23 Nov 1994 **Nationality:** Vietnamese

EDUCATION AND TRAINING

[Apr 2020 – Mar 2022] **Master of Informatics**

Kyoto University, Japan <https://www.ist.i.kyoto-u.ac.jp/en>

Field(s) of study: Intelligence Science and Technology

Final grade: GPA: 4.16 / 4.3

Thesis: Inter-domain Multi-relational Link Prediction

[Apr 2016 – Mar 2020] **Bachelor of Engineering**

Kyoto University, Japan <https://www.s-im.t.kyoto-u.ac.jp/en>

Field(s) of study: Informatics and Mathematical Science

Final grade: GPA: 3.57 / 4.3

Thesis: Link Prediction on Multiple Graphs with Graph Embedding and Optimal Transport

[Apr 2015 – Mar 2016] **Preparatory Course**

Tokyo University of Foreign Studies, Japan <http://www.tufts.ac.jp/institutions/jlc>

[Sep 2012 – Mar 2015] **Talented Program for B.Sc. in Mathematics**

Hanoi University of Science, Vietnam National University, Vietnam [http://
english.hus.vnu.edu.vn/](http://english.hus.vnu.edu.vn/)

Main subject / occupational skills covered:

Talented program for the degree of Bachelor of Science in Mathematics. Have not finished because of studying abroad in Japan.

WORK EXPERIENCE

[Apr 2020 – Mar 2022] **Research Assistant**

Machine Learning and Data Mining Research Laboratory, Kyoto University, Japan

Main activities and responsibilities:

Worked on projects about link prediction for graph data, such as social networks and knowledge graphs.

Achievement: Two papers published in refereed conferences.

Supervisor: Prof. [Hisashi Kashima](#)

[Dec 2020 – Feb 2021] **Research Internship**

Artificial Intelligence Laboratory, Fujitsu Research, Fujitsu Ltd, Japan

Main activities and responsibilities:

Worked on Molecular Property Prediction with Graph Neural Networks. Performed systematic paper review. Benchmarked core GNN models. Improved the company's model and attended competitions.

Achievement: Fourth place (second place for both criteria) in MIT AICures's "[Fighting Secondary Effects of Covid](#)" challenge.

Supervisor: Dr. [Koji Maruhashi](#)

PUBLICATIONS

[2020]

Simultaneous Link Prediction on Unaligned Networks Using Graph Embedding and Optimal Transport

<https://ieeexplore.ieee.org/abstract/document/9260046>

Reference: 2020 IEEE 7th International Conference on Data Science and Advanced Analytics (DSAA)

Luu Huu Phuc, Koh Takeuchi, Makoto Yamada, Hisashi Kashima.

[2021] **Inter-domain Multi-relational Link Prediction**

https://link.springer.com/chapter/10.1007/978-3-030-86520-7_18

Reference: Joint European Conference on Machine Learning and Knowledge Discovery in Databases (ECML-PKDD)

Luu Huu Phuc, Koh Takeuchi, Seiji Okajima, Arseny Tolmachev, Tomoyoshi Takebayashi, Koji Maruhashi, Hisashi Kashima

HONOURS AND AWARDS

[Mar 2022] **Representative at the graduation ceremony of Kyoto University Awarding institution:** Graduate School of Informatics, Kyoto University

Being honored as the representative of the Graduate School of Informatics (from among 173 students) to attend Kyoto University's graduation ceremony.

[Apr 2020] **The Japanese Government (MEXT) Scholarship (2020-2022) Awarding institution:** The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan

Two-year grant of fully funded master's study in Japan

- [Apr 2015] **The Japanese Government (MEXT) Scholarship (2015-2020) Awarding institution:** The Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
Five-year grant of fully funded bachelor's study in Japan. Only four candidates were granted in Vietnam at the year.
- [2013] **General Electric Foundation Scholar-Leader Program Vietnam (2013-2015) Awarding institution:** General Electric (GE) Foundation, Vietnam
Three-year grant (2013-2016, US\$ 3450) of bachelor's study in Vietnam. Top 10 candidates selected nationwide.
- [2012] **Second Prize in Vietnam National Mathematical Olympiad (VMO) Awarding institution:** The Ministry of Education and Training, Vietnam
VMO is the most prestigious mathematical olympiad for high-school students in Vietnam. Multi-round pre-qualification at the provincial level. Only around 400 qualified students being granted to compete at the national level.

PROJECTS

- [2020 – 2022] **Link prediction on graphs**
Developed methods to perform intra-graph and inter-graph link prediction for a pair of related graphs.
Github: [Link](#), [Link](#)
- [2020 – 2022] **University projects**
Implemented algorithms for university courses such as Speech Processing, Computer Vision, and Pattern Recognition.
Github: [Link](#), [Link](#), [Link](#), [Link](#), [Link](#)
- [Dec 2020 – Feb 2021] **Molecular property prediction**
Implemented graph neural network methods for classifying small-size molecular graphs.

SKILLS

Machine Learning, Graph Mining, Graph Neural Networks, Optimal Transport

Tools: Python, Pytorch, Pytorch Geometric, Keras, Linux, GitHub

LANGUAGE SKILLS

Mother tongue(s): Vietnamese

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Japanese

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2