

# Duc A. Hoang

## Curriculum Vitae



The current CV was updated on October 20, 2018.

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### Personal Information

Full name (Vietnamese) Hoàng Anh Đức.  
Name (in publications) Duc A. Hoang.  
Gender Male.  
Nationality Vietnamese.

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### Current Position

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### Contact Information

Email (personal) [anhduc.hoang1990@gmail.com](mailto:anhduc.hoang1990@gmail.com)  
Email (work)  
Personal Webpage <http://hoanganhduc.github.io/>

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### Education

- Apr. 2015 – Jun. 2018 **PhD Degree in Information Science**
- [Japan Advanced Institute of Science and Technology](#) (Ishikawa, Japan).
  - Supervisor: [Ryuhei UEHARA](#).
  - Thesis Title: Independent Set Reconfiguration and Related Problems for Some Restricted Graphs.
- Apr. 2013 – Mar. 2015 **Master Degree in Information Science**
- [Japan Advanced Institute of Science and Technology](#) (Ishikawa, Japan).
  - Supervisor: [Ryuhei UEHARA](#).
  - Thesis Title: The Independent Set Reconfiguration Problem on Some Restricted Graphs.
- Sep. 2008 – Mar. 2013 **Bachelor Degree in Mathematics**
- [VNU University of Science](#) (Hanoi, Vietnam).
  - Thesis Advisor: [Thi Ha Duong PHAN](#).
  - Thesis Title: The Matrix-Tree Theorem and Some Related Problems.

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### Languages

Vietnamese Native  
English Professional working proficiency

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## Research Interests

- Graph Algorithms.
- Combinatorial Reconfiguration.

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## Positions Held

Apr. 01 – Jul. 08, 2016 **Visiting Student** at Algorithm Theory Lab, Graduate School of Information Sciences, Tohoku University, Japan. Host: Xiao ZHOU, and Takehiro ITO.

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## Professional Services

2018

Reviewer Theoretical Computer Science.  
Sub-Reviewer COCOON 2018.

2017

Reviewer Discrete Applied Mathematics.  
(Sub-)Reviewer IEICE TRANSACTIONS on Fundamentals of Electronics, Communications and Computer Sciences.

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## Teaching Experiences

Oct. 11 – Nov. 30, 2017 **Teaching Assistant** – JAIST I216: Computational Complexity and Discrete Mathematics.

Apr. 12 – Jun. 02, 2017 **Teaching Assistant** – JAIST I216: Computational Complexity and Discrete Mathematics.

Oct. 12 – Dec. 01, 2016 **Teaching Assistant** – JAIST I216: Computational Complexity and Discrete Mathematics.

Apr. 08 – Jun. 05, 2015 **Teaching Assistant** – JAIST I216: Computational Complexity and Discrete Mathematics.

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## Awards

Jun. 22, 2018 JAIST Outstanding Performance Award for doctoral students.

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## Co-authors (in alphabetical order)

Erik D. Demaine, Martin L. Demaine, Eli Fox-Epstein, Takehiro Ito, Amanj Khorramian, Hirotaka Ono, Yota Otachi, Ryuhei Uehara, Takeshi Yamada.

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## Publications

A list of my publications can also be found at [DBLP](#) and [Google Scholar](#). Some of them are available as preprint manuscripts at [arXiv](#).

### Preprint

1. Duc A. Hoang, Amanj Khorramian, and Ryuhei Uehara. Shortest Reconfiguration Sequence for Sliding Tokens on Spider. *arXiv preprint* (2018). arXiv: [1806.08291](#).

### Journal

1. Erik D. Demaine, Martin L. Demaine, Eli Fox-Epstein, Duc A. Hoang, Takehiro Ito, Hirotaka Ono, Yota Otachi, Ryuhei Uehara, and Takeshi Yamada. Linear-time algorithm for sliding tokens on trees. *Theoretical Computer Science* **600** (2015), 132–142. DOI: [10.1016/j.tcs.2015.07.037](#).

### International Conference

1. Duc A. Hoang, Eli Fox-Epstein, and Ryuhei Uehara. Sliding tokens on block graphs. In: *Proceedings of WALCOM 2017*. Ed. by Sheung-Hung Poon, Md. Saidur Rahman, and Hsu-Chun Yen. Vol. 10167. LNCS. Springer, 2017, pp.460–471. DOI: [10.1007/978-3-319-53925-6\\_36](#).
2. Duc A. Hoang and Ryuhei Uehara. Sliding tokens on a cactus. In: *Proceedings of ISAAC 2016*. Ed. by Seok-Hee Hong. Vol. 64. LIPIcs. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2016, pp.37:1–37:26. DOI: [10.4230/LIPIcs.ISAAC.2016.37](#).
3. Eli Fox-Epstein, Duc A. Hoang, Yota Otachi, and Ryuhei Uehara. Sliding token on bipartite permutation graphs. In: *Proceedings of ISAAC 2015*. Ed. by Khaled Elbassioni and Kazuhisa Makino. Vol. 9472. LNCS. Springer, 2015, pp.237–247. DOI: [10.1007/978-3-662-48971-0\\_21](#).
4. Erik D. Demaine, Martin L. Demaine, Eli Fox-Epstein, Duc A. Hoang, Takehiro Ito, Hirotaka Ono, Yota Otachi, Ryuhei Uehara, and Takeshi Yamada. Polynomial-time algorithm for sliding tokens on trees. In: *Proceedings of ISAAC 2014*. Ed. by Hee-Kap Ahn and Chan-Su Shin. Vol. 8889. LNCS. Springer, 2014, pp.389–400. DOI: [10.1007/978-3-319-13075-0\\_31](#).

### PhD Thesis

1. Duc A. Hoang. “Independent set reconfiguration and related problems for some restricted graphs.” PhD thesis. Japan Advanced Institute of Science and Technology, 2018. <http://hdl.handle.net/10119/15431>.