

## VAN SON NGUYEN

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Address: No. 101, Luong Khanh Thien Street, Tuong Mai Ward, Hoang Mai District, Ha Noi City.

### EDUCATION

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| 2019-2020 | <b>Master of Data Science</b> , <i>School of Information and Communications Technology (SoICT), Hanoi University of Science and Technology (HUST).</i>  |
| 2014-2019 | <b>Bachelor of Information Technology, Program of Talented Engineers</b> , <i>School of Information and Communications Technology (SoICT), Hanoi University of Science and Technology (HUST).</i><br><b>CPA: 3.50</b> (rank 2/21 in the IT talented class). |
| 2011-2014 | <b>Specialized Math Class</b> , <i>Phan Boi Chau High School for the Gifted Students, Nghe An province.</i>   |

### RESEARCH AND EMPLOYMENT EXPERIMENTS

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| 8/2016-now    | <b>Research Assistant</b> at <i>Data Science Lab, School of Information and Communications Technology (SoICT), Hanoi University of Science and Technology (HUST).</i><br><b>Main research topics:</b> <ul style="list-style-type: none"><li>• Large scale machine learning:<ul style="list-style-type: none"><li>▪ Online learning for data streams</li><li>▪ Overcoming catastrophic forgetting in neural networks</li></ul></li><li>• Bayesian Deep Learning</li></ul> <b>Other research interests:</b> Variational method, Deep Generative Model, Optimization. |
| 2/2020-6/2020 | <b>Teaching Assistant</b> , Machine Learning and Data Mining course, <i>SOICT – HUST.</i>  |
| 6/2018-3/2019 | <b>Department of Data Science</b> , <i>Viettel Network Technology R&amp;D Center.</i>  |

### PUBLICATIONS

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| 2020 | <b>3.</b> Ha Nguyen, Hoang Nguyen, <b><u>Van Son Nguyen</u></b> , Linh Ngo Van, Khoat Than, Online Bayesian learning for data streams with adaptive dropout. <i>To be submitted, Machine Learning journal.</i>  |
| 2019 | <b>2.</b> <b><u>Van-Son Nguyen</u></b> , Duc-Tung Nguyen, Linh Ngo Van, Khoat Than, Infinite Dropout for training Bayesian models from data streams, <i>Proceedings of IEEE International Conference on Big Data</i> , Los Angeles, CA, USA [Acceptance rate 103/550 $\approx$ 18.7%]<br><b>1.</b> Khoat Than, Xuan Bui, Tung Nguyen-Trong, Khang Truong, <b><u>Son Nguyen</u></b> , Bach Tran, Linh Ngo Van, and Anh Nguyen-Duc, How to make a machine learn continuously: a tutorial of the Bayesian approach, <i>In Proc. SPIE 11006, Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications</i> , doi 10.1117/12.2518860. SPIE, 2019 |

### AWARDS AND RECOGNITION

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| 2019 | <b>Scholarship</b> of the Domestic Master Program of Vingroup Innovation Foundation (VINIF).<br><b>Best Presentation Award</b> in recognition of outstanding thesis presentation at the thesis committee Engineering Talent Program, <i>SOICT – HUST.</i><br><b>Third Prize</b> in the Scientific Research Student Conference, <i>SOICT – HUST.</i> |
| 2016 | Vietnam Mathematics Olympiad for University Students (VMS, university level) ( <b>First Prize</b> in Calculus, <b>Third Prize</b> in Algebra).  |

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| 2015 | Vietnam Mathematics Olympiad for University Students (VMS, national level) ( <b>First Prize</b> in Calculus, <b>Second Prize</b> in Algebra).<br><b>Scholarship</b> for students with good academic records, <i>SOICT – HUST</i> .                              |
| 2014 | <b>Scholarship</b> (for university students) of the National Program for the Development of Mathematics of Vietnam Institute for Advanced Study in Mathematics (VIASM).<br><b>Second prize</b> in Vietnam Mathematical Olympiad (VMO) for high school students. |
| 2013 | <b>Scholarship</b> (for high school students) of the National Program for the Development of Mathematics of Vietnam Institute for Advanced Study in Mathematics (VIASM).  |

## EDUCATIONAL ACTIVITIES

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| 2015-2017 | Lead refresher courses to the entrance exam into special (talented, high quality) programs at Hanoi University of Science and Technology (HUST) (about 45/60 students achieved their goals).   |
| 2016      | <b>Book:</b> Nguyễn Đình Thành Công, Nguyễn Văn Hương, Nguyễn Duy Hưng, Trần Trí Kiên, <u><b>Nguyễn Văn Sơn</b></u> , Lê Nhất, Trần Bảo Trung, Chuyên đề Bồi dưỡng học sinh giỏi qua các kỳ thi Olympic Toán, 2 Tập (Olympic mathematical topics for gifted students, 2 Volumes), <i>Vietnam National University Press, Ha Noi</i> . |
| 2014-2015 | Member of GSTT Group (a nonprofit educational organization), supporting knowledge for high school students.  |

## SPECIALIZED SKILLS

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Programming skills:

- Basic: C, JAVA, LATEX
- Advanced: PYTHON-Libraries & tools: numpy, pandas, scikit-learn...

Languages:

- Vietnamese, native
- English, TOEIC 675 points (4/2019)

## CAREER GOALS

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- Constantly learning and accumulating knowledge and experience from practical works.
- In-depth development in machine learning and data science.
- Toward publishing impact/strong publications in the machine learning research.

## SUPERVISORS

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**Khoat Than, Associate Professor**

Head of Data Science Lab, *School of Information and Communications Technology (SoICT), Hanoi University of Science and Technology (HUST)*.

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