

PERSONAL INFORMATION **Minh-Tri Nguyen**

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Gender Male | Date of birth 10 December 1994 | Nationality Vietnamese

WORK EXPERIENCE

September 2020 – Present **Researcher at AaltoSea Research Group**
Department of Computer Science, Aalto University | Espoo, Finland

September 2017 – 2020 **Researcher at High Performance Computing Lab**
Ho Chi Minh City University of Technology, Vietnam

- High-Performance Data Analytics (HPDA) - Supporting Python and Deep Learning on Xeon Phi coprocessor
- Caching Schemes in ICN-IoT Networks & the Potential of the Color-Based Caching in IoTs - Applying ICN-based caching techniques in IoT network and investigating the potential of the Color-Based Caching in improving performance
- Optimizing Color-Based Cooperative Caching Algorithm for Telco-CDNs - Applying machine learning algorithms and techniques for analyzing data and predicting content popularity.
- Studying Collaborative Caching Algorithms in Content Delivery Network - Analyzing log file to support caching algorithms in Telco-CDN.
- Chainer - A Deep Learning tool on Xeon Phi - Developing the library in Intel Xeon Phi to support Deep Learning

September 2017 – 2020 **Teaching Assistant**
Department of Computer Science, HCMC University of Technology, Vietnam

- Operating Systems
- Parallel Computing

EDUCATION AND TRAINING

Publication

[8] **Minh-Tri Nguyen**, Hong-Linh Truong, "**Demonstration Paper: Monitoring Machine Learning Contracts with QoA4ML**", Companion of the 2021 ACM/SPEC International Conference on Performance Engineering (ICPE '21 Companion), France, 2021.

[7] **Minh-Tri Nguyen**, Takuma Nakajima, Masato Yoshimi and Nam Thoai, "**Analyzing and Predicting the Popularity of Online Contents**", The IEEE 21th International Conferences on Information Integration and Web-based Application & Services (II-WAS2019), Munich, Germany, 2019

[6] **Minh-Tri Nguyen**, Duong H.Le, Takuma Nakajima, Masato Yoshimi and Nam Thoai, "**Attention-based Neural Network: A Novel Approach for Predicting the Popularity of Online Content**", The IEEE 21th International Conferences on High Performance Computing and Communications (HPCC), Zhangjiajie, China, 2019

[5] Anh-Tu Ngoc Tran, **Minh-Tri Nguyen**, Thanh-Dang Diep, Takuma Nakajima, and Nam Thoai, "**Optimizing Color-Based Cooperative Caching in Telco-CDNs by Using Real Datasets**", The 13th International Conference on Ubiquitous Information Management and Communication (IMCOM), Phuket, Thailand, 2019

[4] Anh-Tu Ngoc Tran, **Minh-Tri Nguyen**, Thanh-Dang Diep, Takuma Nakajima, and Nam Thoai, "**A Performance Study of Color-Based Caching in Telco-CDNs by Using Real Datasets**", The 9th International Symposium on Information and Communication Technology (SolCT), Da Nang City, Viet Nam, 2018.

[3] Thanh-Dang Diep, **Minh-Tri Nguyen**, Nhu-Y Nguyen-Huynh, Minh Thanh Chung, Manh-Thin Nguyen, Nguyen Quang-Hung, and Nam Thoai, "**Chainer-XP: A Flexible Framework for Artificial Neural Networks Run on the Intel Xeon Phi Coprocessor**", The 7th International Conference on High Performance Scientific Computing Simulation, Modeling and Optimization of Complex Processes. 2018

[2] **Minh-Tri Nguyen**, Thanh-Dang Diep, Tran Hoang Vinh, Takuma Nakajima, and Nam Thoai, "**Analyzing and Visualizing Web Server Access Log File**", The 5th International Conference on Future Data and Security Engineering (FDSE), Ho Chi Minh City, Viet Nam, 2018.

[1] Anh-Tu Ngoc Tran, Huu-Phu Nguyen, **Minh-Tri Nguyen**, Thanh-Dang Diep, Nguyen Quang-Hung and Nam Thoai, "**pyMIC-DL: A Library for Deep Learning Frameworks Run on the Intel Xeon Phi Coprocessor**", The IEEE 20th International Conferences on High Performance Computing and Communications (HPCC), Exeter, United Kingdom, 2018

2017–2019 Master Degree - Computer Science

Ho Chi Minh City University of Technology, Vietnam

- Cumulative GPA: 9.03/10 - 4.0 (4 - point grading scale) - Top 1
- Thesis: 9.3/10 - Applying machine learning techniques in extracting information from the log file (English)

2012–2017 Bachelor Degree in Honors Program (ABET) - Computer Science and Engineering

Ho Chi Minh City University of Technology, Vietnam

- Cumulative GPA: 8.44/10 - 3.5 (4 - point grading scale) - Top 15

2017 Certificate

- Big Data Analysis with Scala and Spark - Online course of École Polytechnique Fédérale de Lausanne
- IBM training & Application Development on Bluemix

2017 Foreign language(s)

English - IELTS: 7.0

ADDITIONAL INFORMATION

Technical skills

- Programming Language: C/C++, Python, Scala, Java, C#,...
- Practical experience in modifying deep learning framework, analyzing data with Apache Spark, TensorFlow, PyTorch, Scikit and other machine learning libraries.

Honours and awards

- Top 1 Master's student graduated in 2019
- Toshiba Scholarship (2017, 2018)
- Excellent Student Award (2015, 2016, 2017)
- The first prize of individual and teammates in BCR (BKIT Car Rally) competition (2015)
- The third prize of National Excellent Student Award in Physic (2011, 2012)