

NGUYEN VAN QUANG

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EDUCATION

Tohoku University, Japan

PhD Student in Computer Vision Lab

Sept 2019 - Present.

Tohoku University, Japan

Master Student in Data Sciences Program

Sept 2017 - Present.

GPA: 4.0/4.0

Daejeon University, South Korea

Exchange Student in Fostering ASEAN Future Leaders Program

Sept 2015- Aug 2016

GPA: 4.36/4.5

University of Engineering and Technology, Vietnam

Bachelor in Computer Science, The Undergraduate [Thesis](#) (scored 10/10)

Sept 2012 - Aug 2017

GPA: 3.88/4.0

High School for Gifted Students, Vietnam National University

Major in Chemistry, First National Chemistry Olympiad Prize in 2012

Aug 2009 - June 2012

TECHNICAL SKILLS

Programming Languages

Python, Java, C/C++, Swift

Familiar Operating Systems

Mac OS, Ubuntu, and Windows

Machine Learning Frameworks

Pytorch, Tensorflow, Keras, pandas, numpy

Software Development Experiences

Android, iOS Application, and Web Development

WORK AND RESEARCH EXPERIENCES

Research Graduate Student

September 2017 - Now

Tohoku University - supervised by Prof. Takayuki Okatani, Prof. Tokuyama

- **Visual Dialog:** The current work focuses on building a system which can answer a question based on the image and dialog history provided. We proposed an efficient attention mechanism for multiple inputs in Visual Dialog to improve the performance to the SOTA on [the task](#).
- **Micro-expression Recognition:** Using CapsuleNet and various CNN models for Micro-expression Recognition. The work was accepted in FG 2019 with available [\[Code\]](#), [\[Pdf\]](#).
- **Micro-expression Spotting:** Using the 3D-CNN model to detect and spot the period of micro-expressions from videos with available [\[Code\]](#).

Machine Learning Research Intern

June 2016 - September 2016

Laboro.AI Inc. - supervised by Dr. Hiromasa Fujihara

- **Face Detection:** The main focus is to detect the hard faces including small, occluded faces from images. The work was accepted in FG 2019 with available [\[Project Web\]](#), [\[Code\]](#), [\[Pdf\]](#).
- **Object Recognition:** My responsibility to write the Keras scripts for training ResNet101 on ImageNet from scratch (There was no such implementation available on the Internet). The training procedure took 2 weeks to converge with approximately same results ($\pm 0.4\%$) as public pretrained versions on Tensorflow, Pytorch and so on. The company code is closed to public.

Machine Learning Research Intern

July 2016 - August 2016

Software Engineer Incubation Center, Fujitsu Japan

- **Research Project:** Building a system for question answering. I was responsible for investigating and prototyping a deep learning model using transformer blocks to build a system for question answering with the datasets from Fujitsu's clients. The code was only available to internal Fujitsu.

Research Bachelor Student

June 2015 - June 2017

Data Science Laboratory - supervised by Assoc.Prof. Quang-Thuy Ha

- **Research Topics:** Various machine learning algorithms for NLP and medical field.
- **Text classification:** I was working on several models for multi-label text classification. Together with other researchers, we published several papers to the conferences and journal.
- **e-Doctor Big Data Project:** I was responsible for preprocessing more than 1 million medical records from patients taking medical test in Vietnam.
- **Thesis** titled "An algorithm adaptation multi-label classification method and experiments on Vietnamese text" was awarded as the best thesis of the year. The electronic version can be found [here](#).

Web Development Intern

Jan 2016 - March 2016

United Nations Asia Pacific Center for ICT Development, South Korea

- **Work Project:** Front-end development for e-learning [website](#) included fixing bugs and maintaining the code.

PUBLICATIONS

1. Efficient Attention Mechanism for Handling All the Interactions between Many Inputs with Application to Visual Dialog Arxiv 2019
Nguyen Van Quang, Masanori Suganuma, Takayuki Okatani [\[Pdf\]](#)
2. CapsuleNet for Micro-Expression Recognition Automatic Face and Gesture Recognition 2019, France
Nguyen Van Quang, Jinhee Chun, Takeshi Tokuyama [\[Code\]](#)[\[Pdf\]](#)
3. Revisiting a single-stage method for face detection Automatic Face and Gesture Recognition 2019, France
Nguyen Van Quang, Hiromasa Fujihara [\[Project Web\]](#)[\[Code\]](#)[\[Pdf\]](#)
4. A New Lifelong Topic Modeling Method and Its Application to Vietnamese Text Multi-label Classification In proceedings of ACIIDS 2018, LNAI 10751
Quang-Thuy Ha, Thi-Ngan Pham, **Van-Quang Nguyen**, Thi-Cham Nguyen, Thi-Hong Vuong, Minh-Tuoi Tran, Tri-Thanh Nguyen [\[Pdf\]](#)
5. A New Text Semi-supervised Multi-label Learning Model Based on Using the Label-Feature Relations In proceedings of ICCCI 2018, LNAI 11055, UK
Quang-Thuy Ha, Thi-Ngan Pham, **Van-Quang Nguyen**, Minh-Chau Nguyen, Thanh-Huyen Pham, Tri-Thanh Nguyen [\[Pdf\]](#)
6. A semi-supervised multi-label classification framework with feature reduction and enrichment In Journal of Information Tecomunication, 2018, UK
Thi-Ngan Pham, **Van-Quang Nguyen**, Van-Hien Tran, Tri-Thanh Nguyen, Quang-Thuy Ha [\[Pdf\]](#)
7. MASS: A Semi-supervised Multi-label Classification Algorithm with Specific Features In proceedings of ACIIDS 2017, Studies in Computational Intelligence 710, Japan
Thi-Ngan Pham, **Van-Quang Nguyen**, Tri-Thanh Nguyen, Quang-Thuy Ha [\[Code\]](#)[\[Pdf\]](#)

8. Social-spam Profile Detection based on Content Classification and User Behavior In Information Security Conference 2016, Vietnam
Thi-Hong Vuong, Van-Hien Tran, **Van-Quang Nguyen**, Minh-Duc Nguyen, Cam-Van Thi Nguyen, Thanh-Huyen Pham, Mai-Vu Tran

SCHOLARSHIPS AND AWARDS

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| 1. Japanese Government Scholarship (MEXT) for PhD Course | <i>2019 - 2022</i> |
| 2. Japanese Government Scholarship (MEXT) for Master Course | <i>2017 - 2019</i> |
| 3. Data Science Summer School Scholarship, Gottingen University | <i>August 2018</i> |
| 4. Honda Young Engineer Scientist Award for 10 most excellent students in Vietnam | <i>Sept 2017</i> |
| 5. Third Prize of National Scientific Student Research Conference | <i>Sept 2017</i> |
| 6. Excellent Thesis Award - Best undergraduate thesis (scored 10/10) | <i>June 2017</i> |
| 7. First Prize of Scientific Student Research Conference | <i>June 2017</i> |
| 8. Excellent Student Award - The valedictorian of QH-2012 batch | <i>June 2017</i> |
| 9. AmCham Scholarship - from American Chamber and the US Embassy | <i>June 2017</i> |
| 10. Machine Learning Summer School Scholarship, Kyoto University | <i>August 2016</i> |
| 11. Merit-based University Scholarships, UET-VNU | <i>2013 - 2017</i> |
| 12. Shinnyo-en Scholarships, awarded in 4 consecutive years | <i>2012 - 2016</i> |
| 13. Hoa Trang Nguyen Award, awarded to only 2 recipients from UET-VNU | <i>2012</i> |
| 14. The second highest score in University Entrance Examination | <i>2012</i> |
| 15. First Prize in National Chemistry Olympiad 2012 | <i>2012</i> |
| 16. Merit-based New South Wale University Scholarship, Australia | <i>2012</i> |
| 17. Telecom Corporation Scholarship | <i>2012</i> |
| 18. Odon Vallet Scholarship, France | <i>2011</i> |
| 19. Third Prize in National Chemistry Olympiad 2011 | <i>2011</i> |

OTHER INFORMATION

Teaching Assistant	Data Mining, Introduction to Infomatics 1
Languages	English (Advanced) and Japanese (Beginner)
Hobbies	Photography, Running, Table tennis, and Football
Tools	Latex, Adobe, Microsoft Office, Javascript, HTML, CSS.

REFERENCES

1. Prof. Takayuki Okatani	PhD Supervisor	Email: okatani@vision.is.tohoku.ac.jp
1. Prof. Takeshi Tokuyama	Master Supervisor	Email: tokuyama@dais.is.tohoku.ac.jp
2. Doctor Hiromasa Fujihara	Intern Supervisor	Email: fujihara@laboro.ai
3. Assoc. Prof. Ha Quang Thuy	Bachelor Supervisor	Email: thuyhq@vnu.edu.vn