

# NGUYEN VAN QUANG

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## RESEARCH INTEREST

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· Deep Learning                      · Computer Vision                      · Natural Language Processing

## EDUCATION

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<b>Tohoku University, Japan</b> Master Student in Data Sciences Program	<i>Sept 2017 - Present.</i> GPA: 4.0/4.0
<b>Daejeon University, South Korea</b> Exchange Student in Fostering ASEAN Future Leaders Program	<i>Sept 2015- Aug 2016</i> GPA: 4.36/4.5
<b>University of Engineering and Technology, Vietnam</b> Bachelor in Computer Science, The Undergraduate <a href="#">Thesis</a> (scored 10/10)	<i>Sept 2012 - Aug 2017</i> GPA: 3.88/4.0 (1/450)

## TECHNICAL SKILLS

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<b>Programming Languages</b>	Python, Java, C/C++, Swift
<b>Familiar Operating Systems</b>	Mac OS, Ubuntu, and Windows
<b>Machine Learning Frameworks</b>	Pytorch, Tensorflow, Keras, pandas, numpy
<b>Software Development Experiences</b>	Android, iOS Application, and Web Development

## WORK AND RESEARCH EXPERIENCES

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**Research Master Student** September 2017 - Present  
*Tokuyama Laboratory - supervised by 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. I've recently investigated BERT-pretrained representation for text, co-attention blocks and adversarial learning to [the problem](#).
- **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. CapsuleNet for Micro-Expression Recognition FG 2019, France (soon)  
**Nguyen Van Quang**, Jinhee Chun, Takeshi Tokuyama [\[Code\]](#)[\[Pdf\]](#)
2. Revisiting a single-stage method for face detection FG 2019, France (soon)  
**Nguyen Van Quang**, Hiromasa Fujihara [\[Project Web\]](#)[\[Code\]](#)[\[Pdf\]](#)
3. 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 [\[Pdf\]](#)
4. 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 [\[Pdf\]](#)
5. A semi-supervised multi-label classification framework with feature reduction and enrichment In Journal of Information Tecommunication, 2018, UK  
 Thi-Ngan Pham, **Van-Quang Nguyen**, Van-Hien Tran, Tri-Thanh Nguyen, Quang-Thuy Ha [\[Pdf\]](#)
6. 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 [\[Code\]](#)[\[Pdf\]](#)
7. 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

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

## REFERENCES

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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