

NGUYEN VAN QUANG

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RESEARCH INTEREST

· Deep Learning · Computer Vision · Natural Language Processing · Robotics

EDUCATION

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

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 Master Student <i>Tokuyama Laboratory - supervised by Prof. Tokuyama</i>	September 2017 - Present
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- **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 <i>Laboro.AI Inc. - supervised by Dr. Hiromasa Fujihara</i>	June 2016 - September 2016
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- **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
 Nguyen Van Quang, Jinhee Chun, Takeshi Tokuyama
 FG 2019, France (soon) [\[Code\]](#)[\[Pdf\]](#)
2. Revisiting a single-stage method for face detection
 Nguyen Van Quang, Hiromasa Fujihara
 FG 2019, France (soon) [\[Project Web\]](#)[\[Code\]](#)[\[Pdf\]](#)
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

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

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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 |