

# Binh Do

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## Publications

**Binh Do**, Vladimir Golkov, Goktug Gurel, and Daniel Cremers, "*Precursor microRNA Identification Using Deep Convolutional Neural Networks*", <https://www.biorxiv.org/content/early/2018/09/16/414656>.

Nhan Nguyen, **Binh Do**, Hoang Nguyen, Hai Vu, Hai Tran, Lan Le, "*Score-Based Fusion Schemes for Plant Identification From Multi-organ Images*", VNU Journal of Science: Computer Science and Communication Engineering.

**Binh Do**, "*Aspect-Based Sentiment Analysis Using Bitmask Bidirectional Long Short Term Memory Networks*", 31st International Conference of the Florida Artificial Intelligence Research Society, AAAI.

**Binh Do**, Hoang Nguyen, Nhan Nguyen, Hai Vu, Hai Tran, Lan Le, "*Plant Identification Using Score-Based Fusion of Multi-Organ Images*", 9th International Conference on Knowledge and Systems Engineering, IEEE.

## Working Experience

### TIKI Corporation

Software Engineer : Mar 2019 - present

- Deploy fake branches detection system based on darknet using Tensorflow serving, Kafka, Kubernetes and Docker. Experiment on Jenkins and Airflow frameworks.

### JAVIS CO., LTD.

Data Scientist : Oct 2018 - present

- NLP projects: Developed a system to extract booking information from customer requests based on `transformer`, `BERT` and `C2AE`. Cluster customer requests using Deep Learning. Generated sentence from keywords using `seq2seq`.
- CV projects: inpainting images, which are covered by fence, using `GAN`, `autoencoder` (U-Net) .

### WorldQuant LLC

Research Consultant : Jul 2017 - present

- Developed statistical arbitrage & trading models based on financial datasets using technical indicators, fundamental analysis, stochastic processes, and statistical learning.

### Technical University of Munich, Germany

Intern : Apr 2018 - Oct 2018

- Improved prediction accuracy of protein secondary structure by **multi-task learning** (secondary structure, b-values, solvent-accessibility) [code](#).
- Achieved **state-of-the-art** results in precursor miRNA identification. Experiment on miRNA target prediction.

### VC Corporation

Software Engineer : Aug 2016 - Sep 2017

- Obtained **significant improvements** in sentence & aspect based sentiment analysis using Deep Learning.
- Experiment using `LSTM`, `bi-LSTM`, `GRU`, `GloVe`, `Word2vec` `Sentiment2vec` embeddings.

### International Research Institute MICA

Research Assistant : Jun 2016 - Jan 2018

- **Improved** the plant identification accuracy by late fusion of multiple organs based on Deep Learning and SVM.
- Experiment using `AlexNet`, `GoogleNet`, `ResNet`, `DenseNet` for each single organ using tensorflow.

## Honor and Awards

ERASMUS+ scholarship for studying at the Technical University of Munich, Germany. 2018

Achieved **Gold Level 1** status (top 1%) in WorldQuant Challenge - 2017 Spring Alphathon. 2017

**Third prize** at Vietnam National **Mathematical Olympiad** contest for high school students. 2012

## Education

ERASMUS+ KA1 Technical University of Munich, Germany Apr 2018 - Oct 2018

B.Sc. Computer Science Hanoi University of Science and Technology, Vietnam Aug 2013 - Jan 2019