

# 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 - May 2019

- Deploy fake branches detection system based on darknet using Tensorflow serving, Kafka, Kubernetes and Docker. This service is part of a AI platform which helps validate millions of products from sellers. Experiment on Jenkins and Airflow frameworks.

### JAVIS CO., LTD.

Data Scientist : Oct 2018 - present

- Developed a system to extract booking information from customer requests by combining `transformer` and `C2AE`.
- Cluster customer requests using CNN and DBSCAN. Focus on noise detection.
- Generated meaning sentences from keywords using `seq2seq` model.
- Detect fence from images. Then inpaint them using GAN, autoencoder (`U-Net`) .
- Time series outlier detection for cutting machines.

### 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.

## Education

B.Sc. Computer Science      **Technical University of Munich, Germany**      Apr 2018 - Oct 2018

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

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

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