Do Thanh Binh

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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

Working Experience

Software Engineer — **TIKI Corporation** — **Mar 2019 - present**

- Deploy fake branches detection system based on darknet using tensorflow serving, kubernetes and docker. Experiment on Jenkins and Airflow frameworks.

Data Scientist — **JAVIS CO., LTD.** — **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**: fence detection. Inpainting images, which are covered by fence, using `GAN`, `autoencoder (U-Net)`. Predict cost for making CAD drawing images.

Research Consultant — **WorldQuant LLC** — **Jul 2017 - present**

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

Intern — **Technical University of Munich, Germany** — **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. Experimented on **miRNA** target prediction.

Machine Learning Developer — **VC Corporation** — **Aug 2016 - Sep 2017**

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

Research Assistant — **International Research Institute MICA** — **Jun 2016 - Jan 2018**

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

Publications

Binh Do, Vladimir Golkov, Goktug Gurel, and Daniel Cremers, *"Precursor microRNA Identification Using Deep Convolutional Neural Networks"*, 2018, `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, 2018, **accepted**

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, 2018, pages 259 - 264.

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, 2017, pages 191 - 196.

Honor and Awards

Vietnam National Foundation for Science and Technology Development travel Grant Award for FLAIRS, USA. 2018

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

Odon Vallet scholarships for **excellent national students**. 2012

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

References

Assoc. Prof. Thi-Lan Le, Head of Computer Vision department, MICA, HUST, *Thi-Lan.Le@mica.edu.vn*.
Vladimir Golkov, PhD Student, Technische Universität München, *golkov@in.tum.de*.