Do Thanh Binh

(+84) 374611215 binhtd.hust@gmail.com peace195.github.io
magic10995 linkedin.com/in/binhtd github.com/peace195

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

Data Scientist **JAVIS CO., LTD.** Oct 2018 - present

- Developed a system to extract booking information from customer requests based on `transformer`, `BERT` and `C2AE`.
- Generated sentence from keywords using `seq2seq` model.
- Researching about "Deep Learning for clustering" to cluster customer requests.
- Inpainting images, which are covered by fence, using `GAN`, `autoencoder (U-Net)`.

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**.

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.

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**.

Other Activities

Present at the International Day 2018, TUM, Germany - Team Vietnam. May, Jun 2018

Software engineer intern at Eastgate Software Co., network security engineer intern at Bkav Corp. 2015, 2016

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*.