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

Research Consultant	**JAVIS CO., LTD.**	Oct 2018 - present

- Made a BOT to extract accommodation information automatically based on `transformer`, `BERT` and `C2AE` architecture.
- Developed a BOT to generate sentence from keywords based on `LSTM` and `seq2seq`.
- Research about Deep Learning for clustering to cluster customer's requests.

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` using **tensorflow**.

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 Engineering intern at Eastgate Software Co., Ltd.	Aug 2016 - Jan 2017
Network Security Engineering intern at Bkav Corp.	Nov 2014 - Feb 2015

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
HUST encouraging study scholarships.	2014, 2015, 2016
Odon Vallet scholarships for **excellent national students**.	2012
Third prize at Vietnam National **Mathematical Olympiad** contest for high school students.	2012