

Do Thanh Binh

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Education

Hanoi University of Science and Technology, Hanoi, Vietnam
B.Sc. Computer Science

Aug 2013 - present

Luong Van Tuy high school for gifted students in math, Ninh Binh, Vietnam
High School

Aug 2010 - Jun 2013

Working Experience

Intern TUM Computer Vision Group, Germany Apr 2018 - Oct 2018

- Hands-on **Deep Learning** for computer vision and **biomedicine**.
- Cognitive systems, generative models, reinforcement learning.

Research Consultant WorldQuant LLC Jul 2017 - present

- Developed statistical arbitrage models. Extracted sources of alpha and new trading signals, combined these signals into robust long-short trading models, with the objective of achieving high sharpe ratios with high returns and low turnovers.
- Experimented in technical indicators, fundamental analysis, stochastic processes, statistical learning.

Machine Learning Developer VC Corporation Aug 2016 - Sep 2017

- **Deep Learning** for **opinion mining** and **recommendation systems**.
- Built a **vast and clean** Vietnamese sentiment lexicon & dataset.
- Experimented in *LSTM*, *bidirectional LSTM*, *GRU*, *GloVe*, *Word2vec* & *Sentiment2vec embeddings* using **tensorflow**.
- Obtained **signification improvements** in sentence & aspect based sentiment analysis.

Intern International Research Institute MICA Jun 2016 - Jan 2018

- Worked on **Plant Identification** problem using **Deep Learning**.
- Experimented in *AlexNet*, *GoogleNet*, *ResNet*, *DenseNet*, *MobileNets*, *curriculum learning* for each single organ.
- **Improved** the identification accuracy by late fusion of multiple organs.

Other Activities

Owning a small phone accessories shop. Managing, optimizing the marketing and sales. Oct 2016 - present

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, "Aspect-based Sentiment Analysis Using Bitmask Bidirectional Long Short Term Memory Networks", The 31st International Conference of the Florida Artificial Intelligence Research Society (FLAIRS-31), AAAI, 2018, **accepted**.

Binh Do, Hoang Nguyen, Nhan Nguyen, Hai Vu, Hai Tran, Lan Le, "Plant Identification Using Score-based Fusion of Multi-organ Images", In Proceedings of the 9th International Conference on Knowledge and Systems Engineering (KSE-2017), IEEE, 2017, pages 191 - 196.

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

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

First prize with the highest score in the Ninh Binh province's annual math 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.