# Do Thanh Binh

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## Education

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| Hanoi University of Science and Technology | Aug 2013 - present |
| *B.Sc. Computer Science* | |

## Working Experience

| Intern | **TUM Computer Vision Group, Germany** | April 2018 - October 2018 |
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- Hands-on **Deep Learning** for computer vision and **biomedicine**.
- Cognitive systems, generative models, reinforcement learning.

| Research Consultant | **WorldQuant LLC** | Jul 2017 - present |
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- 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 |
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- **Deep Learning** for **opinion mining** and **recommendation systems**.
- Built a **vast and clean** Vietnamese sentiment lexicon & dataset.
- Experimented in *LTSM, 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 |
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- 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

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| 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

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| **ERASMUS** scholarship for studying at the Technical University of Munich, Germany. | 2018 |
| Achieved **Gold Level 1** status (top 1%) in WorldQuant Challange - 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*.

**Dr. Hai Vu**, Researcher, Computer Vision department, MICA, HUST, *hai.vu@mica.hust.edu.vn*.