

Do Thanh Binh

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Education

B.Sc. Informatics	Technical University of Munich, Germany	Apr 2018 - Oct 2018
B.Sc. Computer Science	Hanoi University of Science and Technology, Vietnam	Aug 2013 - present

Working Experience

Intern	TUM Computer Vision Group, Germany	Apr 2018 - present
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- Hands-on **Deep Learning** for computer vision and **biomedicine**.
- Apply and improve the accuracy of Deep Learning on some molecular biology tasks such as: protein secondary structure, b-values, protein solvent accessibility, microRNA.

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** dataset.
- Experimented in *LTSM*, *bidirectional LSTM*, *GRU*, *GloVe*, *Word2vec* & *Sentiment2vec embeddings* using **tensorflow**.
- Obtained **signification improvements** in sentence & aspect based sentiment analysis.

Research Assistant	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

Present at the International Day 2018, TUM, Germany - Team Vietnam.	May 2018
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Owning a small phone accessories shop. Managing, optimizing the marketing and sales.	Oct 2016 - present
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Software Engineering intern at Eastgate Software Co., Ltd.	Aug 2016 - Jan 2017
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Network Security Engineering intern at Bkav Corp.	Nov 2014 - Feb 2015
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Publications

1. 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.
2. **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, AAAI, 2018, pages 259 - 264.
3. **Binh Do**, Hoang Nguyen, Nhan Nguyen, Hai Vu, Hai Tran, Lan Le, "Plant Identification Using Score-Based Fusion of Multi-Organ Images", The 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
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ERASMUS scholarship for studying at the Technical University of Munich, Germany.	2018
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Achieved Gold Level 1 status (top 1%) in WorldQuant Challenge - 2017 Spring Alphathon.	2017
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HUST encouraging study scholarships.	2014, 2015, 2016
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Odon Vallet scholarships for excellent national students .	2012
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Third prize at Vietnam National Mathematical Olympiad contest for high school students.	2012
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References

Assoc. Prof. **Thi-Lan Le**, Head of Computer Vision department, MICA, HUST, Thi-Lan.Le@mica.edu.vn.