

# Gia-Huy Dang

*Resumé title*

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## Education

2013–Now **Undergraduate of Applied Mathematics, Ho Chi Minh International University.**  
Major in Financial Engineering and Risk Management  
GPA (in the scale of 4.0) – 3.30

## Thesis

2018 – now **Deep Reinforcement Learning for Portfolio Optimization with switching regime**

## Experience

### Vocational

2017 **Research Intern**, Jacobs University, Bremen, Germany.

#### Detailed achievements:

- **Product diversity and Network structure: A minimal model**

This was done under the supervision of Prof. Julia Bendul and Prof. Marc-Thorsten Hütt. In this project, I tried to find a way to control the synchronization of a specific type of manufacturing network while maintaining its performance as well as robustness. The whole project was written in Python, and could be viewed at <https://github.com/dngghuy/gLINK>.

2016 **Data Analyst**, BioTuring Inc., Ho Chi Minh city.

#### Detailed achievements:

- Visualized high-dimensional data into statistical plots, using PCA, t-SNE and other dimension-reduced algorithms.
- Data crawling and data munging
- Created and validated models of classic tools that are used in medical research (Kaplan-Meier Survival plot, Different genes expression analysis)
- All the tasks were written in R and Python

## Computer skills

**Python** Familiar with some machine learning framework, such as:

- **Tensorflow**: Most of my projects were done by using this framework.
- **Keras**: I approached Keras recently, through courses in [deeplearning.ai](https://deeplearning.ai).
- Some other libraries for data preprocessing and data analysis: *Sklearn, Pandas*

**R** I used *ggplot2, CART* and some other packages that belong to R-base.

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## Self-employed projects and achievements

### Projects

- **Dog-Cat classification**  
<https://github.com/dngghuy/Kaggle-Dog-vs-Cat>
- **Numer.ai competition**  
This was a weekly competition, and I played here for some weeks. The method that I used was Neural network and some other algorithms from sklearn.

### Certificates

- **Statistical Learning**  
<https://github.com/dngghuy/Others/blob/master/Lagunita-Stanford/Statement.pdf>
- **Deep Learning Specialization (4/5)**  
<https://github.com/dngghuy/Others/tree/master/Deeplearning.ai>