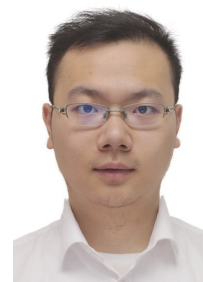


# Haochen Wang

📍 Amsterdam, the Netherlands  
✉ danferwang1123@gmail.com  
🌐 haochen.pw  
🌐 www.linkedin.com/in/haochen-wang-2b79171b7/  
🐙 github.com/DanferWang



## Education

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- 2020 – 2022    📖 **Master of Computer Science, Universiteit van Amsterdam / Vrije Universiteit Amsterdam**  
Faculty of Science, Computer Science (joint degree) track Big Data Engineering
- 2016 – 2020    📖 **Bachelor of Engineering in Computer Science, Xi'an Jiaotong University**  
Faculty of Electrical and Information Engineering, Computer Science and Technology  
Thesis title: *Trajectory user linking problem based on variational autoencoder model.*

## Related Course Work

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Performance of Networked System, Data Mining Techniques, Machine Learning for the Quantified Self, Web Services and Cloud-based Systems, High Performance Computing and Big Data, Software Asset Management, Experimental Design and Data Analysis, Protocol Validation, Information Visualization, Large Scale Data Engineering, Web Data Processing System, The Social Web, Calculus, Linear Algebra, Essentials of Life Science, Probability and Mathematical Statistics, Computer Organization, Computer Network Principle, Data Structure and Algorithms, Operating System, Discrete Mathematics, Compilers Principles, Introduction of Neuroscience, Software Defined Network, Software Engineering, Computer Graphics, Algorithm Analysis and Design.

## Internship

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- Dec.2021 – Now    📖 **Master Graduate Trainee** Human-Centered Data Analytics Group, Centrum Wiskunde & Informatica (CWI), the Netherlands. The main topic is Basic Level Detection.
- Aug.2019 – Feb.2020    📖 **Data Engineer Intern** Data Technology department at Xi'an Jiusuo Data Technology Co. LTD., China. The work was around developing applications of data mining and analysis using statistics and machine learning algorithms. The applications were served for Urban Computing based on Big Data.
- July.2019 – Aug.2019    📖 **Summer Workshop** School of Computing, National University of Singapore and got grade A, focusing on deep learning and tele-robotics project practice. The topic was image recognition in Computer Vision and robotics in Control System. The main deep learning framework is Keras. The electronic platform is Arduino.
- Sept.2017-Mar.2019    📖 **Undergraduate Training Intern** The Internet and Mobile Systems Group, Key Laboratory of Intelligent Network and Network Security, Ministry of Education China. Participate in the construction and update project of the artificial intelligence cloud computing platform, Jiutian, using Docker clusters with Kubernetes.

## Skills

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Programming	■ C, C++, Java, Scala, Python, R, MATLAB, SQL, HTML/CSS/JavaScript
Cloud and Web Services	■ Amazon Web Service, Databricks, Docker, Kubernetes
ML/BD Framework	■ TensorFlow, Keras, PyTorch, Spark, Hadoop
Productivity	■ Microsoft Office Suite, Google Workspace, L <sup>A</sup> T <sub>E</sub> X
Language	■ Mandarin(native), English(advanced), Japanese(basic)
Others	■ Git, Markdown, Bash

## Projects

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- Join in the research of *Basic Level Detection* which is a project about organizing categorial and hierarchical data in Semantic Web. Using machine learning and statistics, I design algorithms to detect concepts in Basic Level in large-scale corpora. Github
- Created and led the project of *DeepLocation*, which is a geography prediction system using deep learning based on images. I took charge of the design of neural networks, feature capture algorithms, and some of web visualization. Github
- Published the paper *Generate Xi'an Drum Music Based on Compressed Coding on The 40th Chinese Control Conference (CCC2021)*. Take charge of algorithm optimization, designing and building neural networks and writing the paper. IEEE Xplore
- Created and led the project of *Your Best Country to Live After Retiring in Europe*, for Information Visualization Course. Take charge of designing the layout of the framework, creating the web-based service using Flask and implementing the GIS part using Leaflet, MapBox, and D3. Github
- Participated in the Summer Workshop of the NUS SoC and got grade A, focusing on deep learning and tele-robotics project practice. Github
- Set up a research group and served as the team leader. Took part in the 'Challenge' tech competition and won the third prize (Research on Acceleration Design of Convolution Neural Networks Based on FPGA Platform). Conduct the software engineering APP development project, which was mainly responsible for project planning, algorithm design and resource planning.

## Personal Statement

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Fascinated with electronic products, such as mobile phones and computers, when I was a little boy, I often operated or debugged these electronic devices. Constantly exploring, I gradually figured out their mystery.

The rich knowledge I acquired later encouraged me to design algorithms and programs myself, and the sense of accomplishment that came with it had further strengthened my interest in data science and cloud computing. Big data is a very good combination of these two. Data science gives algorithms for mining data while cloud plays an important role to practice acceleration of computing.

With several leaderships of projects, I have good organizational skills; good communication skills, teamwork spirit and organizational ability, and can quickly integrate into the new team. I am outgoing and willing to communicate with others. For scientific writing, I have written several scientific papers or reports both in groups and individually.

I would like to continue and enrich my career experience. I believe studying and researching further will equip me with rich profound theories and proficient skills, enabling me to be more competitive in my future research and career.