



Zijian Zhang

Curriculum Vitae

"Power" means the approach to make the world better

Education

- 2015–Present **Masters of Science**, *Leibniz Universitaet Hannover*, Hannover, Lower Saxony, Germany, *GPA – 1.8 (German system)*.
Informatik (Computer Science)
- 2014–2015 **Learning of German language**, *various of language schools*, Hannover, Lower Saxony, Germany, *DSH-3 (Deutsche Sprachpruefung fuer den Hochschulzugang - Stufe 3)*.
German language
- 2010–2014 **Bachelor of Science**, *Xidian University*, Xi'an, Shanxi, China, *GPA – 3.0*.
Information Security

Bachelor Thesis

- Title *GPU accelerated Detection of communities in graph*
- Supervisors Professor Weidong Zhang & Associate Professor Yutao Qi
- Description This thesis provide an approach of detecting and dividing communities on a data structure of graph, using MST community detection algorithm with the acceleration of GPU with CUDA toolkit

Experience

Miscellaneous

2016–Present **Studentische Hilfskraft**, INSTITUTE L3S IN GERMANY, Hannover, Lower Saxony, Germany.

Help to find an efficient parallel way of generating several individual Word-Embedding models, instead using the whole corpora in a huge single batch. Help to find a method of combining individual Word-Embedding using linear algebra and neural network, where the combined model should be acceptable with respect of accuracy

Detailed achievements:

- Learned programming in Python 'pythonically'
- Learned several machine learning algorithms, including but not limited to:
 - Classification with Bayes classifier, C4.5 classifier and SVM
 - Linear and nonlinear regression
 - Clustering algorithm such as K-means, hierarchical clustering, density based clustering
- Learned basis of deep learning, including but not limited to:
 - Shallow models such as Restricted Boltzmann Machine, Quantum Boltzmann Machine, auto encoder, nonlinear classifier in Word-Embedding
- Learned basis of information retrieval
- Had a beginner-level understanding of NLP

2015–Present **Studentische Hilfskraft**, INSTITUT MESS- UND REGELUNG(INSTITUTE OF MEASURING AND CONTROLLING), Hannover, Lower Saxony, Germany.

Contributed to a doctor project about automatic detecting defects on surface of manufactures using laser. Help to build a prototype of the project using C/C++, Visual C++ and Matlab

2013–2014 **Student Part-time job**, SCHOOL OF ELECTRONIC ENGINEERING, Xi'an, Shanxi, China.

Help to analyzing functionality of 802.11n WLAN protocol in order to enhance security of wireless communication

Awards

2012 **National 2nd Prize in The National Undergraduate Electronic Design Contest Information Security Invitational 2012**

Gave an insight into internet communication protocol inside GNU/Linux kernel. Built a security enhanced sub-system using kernel module to keep computer stealth on the Internet. Researched sequence of data encapsulation and classified unnormal out of normal sequence.

2011 **National second scholarship in Xidian University**

2009 **Second Prize in NOIP (National Olympiad in informatics in Provinces) 2009**

NOIP is a infmatrical competition which conducted in provinces. It intends to inspect mastering and comprehension of computational algorithms of contestants

2008 **Second Prize in NOIP 2008**

2007 **Second Prize in NOIP 2007**

Computer skills

Programming C/C++, Python, Java, Pascal, Matlab, GNU Bash

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📄 [sniperstriker.github.io](https://github.com/sniperstriker) • *additional information*

System GNU/Linux including daily management and kernel programming
 Theory Algorithms in graph, Dynamic programming, Number theory, Machine learning, Deep learning, Quantum mechanic basis
 Front-end Matlab GUI Toolkit, QT
 Web HTML5, CSS3, ECMAScript
 Security Reverse engineering on x86, Cryptography basis, Penetration testing basis
 Others CUDA, Functional programming, \LaTeX , Repairing imported printer

Languages

Chinese	Mothertongue	
English	Intermediate	<i>Con conversationally fluent</i>
German	Intermediate	<i>Con conversationally fluent</i>
Japanese	Basic	<i>Basic words and phrases only</i>

Interests

- Reading	- Chinese Flute
- Solving logic puzzles	- Chinese martial art
- Fitness	- Philosophy
- History	- Forensic Science and Criminology
- Running	