

# Chenguang Wang

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## EDUCATION BACKGROUND

### *Xi'an Jiaotong University(XJTU)*

09/2016-06/2020

- Bachelor of Engineering in Computer Science and Technology
- Faculty of Electronic and Information Engineering

### *Stevens Institute of Technology(SIT)*

09/2021-

- Master of Science in Computer Science and Technology
- Faculty of Computer Science Department

## SCIENTIFIC RESEARCH

### *Member, Sensor Calibration Method Based on Linear Regression, Chinese Academy of Science*

07/2020-08/2020

#### *Advisor: Shuangshuang Li*

- Learned and understood the technical application in the field of meteorological monitoring, and learned the basic principles and application methods of linear regression models in detail
- Realized the program implementation of the linear regression model with SGD through group cooperation
- Assisted others in using the Pandas library to complete all the meteorological data, and calculated a series of related parameters through corresponding mathematical formulas to complete the evaluation of the model

### *Member, Semantic Understanding of Wearable Device Eye Movement Data*

10/2020-06/2021

#### *XJTU Intelligent Network and Network Security Laboratory*

##### *Advisor: Zhongmin Cai*

- Wrote programs by python(opencv) to realize position recognition of viewpoint in video
- Completed the highly accurate positioning of the viewpoint position in the simulated environment
- Attempting to use clustering algorithm to realize the recognition and annotation of viewpoints in the actual environment
- Completing an EI paper based on the above work

### *Member, Analysis of User Behavior Patterns Based on Sports Data Collection and Analysis*

10/2018-04/2019

#### *XJTU Intelligent Network and Network Security Laboratory*

##### *Advisor: Zhongmin Cai*

- Wrote programs by Java to realize data collection on Android phones
- Tried to use different machine learning architectures on mobile phones for data analysis
- Optimized the app to meet various indicators

### *Member, Computer System and Core Analysis Research*

06/2018-09/2018

#### *XJTU Intelligent Network and Network Security Laboratory*

##### *Advisor: Jing Tao*

- Worked on Android privilege escalation vulnerability CVE-2015-3636, and analyzed the system with various analysis methods
- Completed the realization of SSL man-in-the-middle attacks and preliminary prevention work by forging CA certificates

### *Member, Study on Computer Network Security Analysis and Testing Technology*

12/2017-02/2018

#### *XJTU Intelligent Network and Network Security Laboratory*

##### *Advisor: Jing Tao*

- Understood and analyzed common network attack methods, analyzed existing network security and attack methods, built website on my own, and implemented attacks and protections on the website

## PATENT

**Wang, Chenguang;** Lu, Junjie; Yuan, Xiuyun; Shen, Ziqin; Zhao, Haohang, *A Method of Gas Sensor Calibration Based on Linear Optimization*, China, 2020102518 [P]. 2020-11-04

## PUBLICATION

Wang, Chenguang, *Conception of regional vehicle traffic control based on low-orbit satellite vehicle networking*, Space Electronics, Journals Included in China Core Journals Database [J], 2021,1.

## INTERNSHIP EXPERIENCE

### *Internet operation intern, Everlibrary*

01/2019-02/2019

- Completed the rebuilding of the website
- Assisted colleagues in finishing the construction of data map visualization by Echart
- Completed the development work through collaboration and communication in a pure English environment, and understood the process and methods of project development at work

## ACADEMIC COMPETITION

### *Leader, Mathematical Contest in Modeling, National level*

05/2018-10/2018

- Used Matlab to achieve predictive model analysis, physical model calculations, etc., including missile trajectory prediction, population prediction, wind power capacity assessment, dam construction site selection, etc.
- Assisted teammates in completing multiple papers on mathematical modeling competitions and mastered the basic writing methods of papers

### *Member, The Design of the Android Application of Encryption Shell/Unshell Protection*

05/2018-06/2018

- Test program stability of Android application of encryption shell/unshell protection

- Obtained new understanding of Android system program development

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**EXTRACURRICULAR ACTIVITY**

<i>Vice-Minister, Cyber Security Club</i>	<i>06/2018-06/2019</i>
<i>Assistant Head, Student Art Troupe—Symphony</i>	<i>05/2017-06/2018</i>
<i>Technial Advisor, Student Union of Nanyang</i>	<i>06/2017-05/2018</i>
<i>Secretary, Student Union of Nanyang</i>	<i>09/2016-05/2017</i>

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**OTHER INFORMATION**

Computer skills: C/C++ ,Python,Matlab

Certificate: National Information Security Certificate (First level)