



## **Ranking Certification**

Student ID No.: **20318174**

Name of Student:**Taiyuan ZHANG**

Programme: **BSc Hons Mathematics with Applied Mathematics**

Email:**smytz4@nottingham.edu.cn**

### **RANKING:**

This is to certify that Mr. Taiyuan ZHANG 's grade point average (GPA) ranked Top 5% in the BSc Hons Mathematics with Applied Mathematics of Academic Year 2022-2023.



### **Ranking :**

- The University of Nottingham Ningbo China only issues 1%, 5%, 10%, 20%, 30%, 40% and 50% for ranking considering of privacy policy.
- This Ranking Certification is only applicable to support student's career development.



# CERTIFICATE

## UNNC Award for Outstanding Students

This award is presented to

# Taiyuan Zhang

in recognition of your excellence, effort, and achievement of  
being an outstanding student in the academic year 2022-23.



# 浙江省政府奖学金

# 荣誉证书

编号：2022年第31318号

张泰源同学荣获2021-2022学年浙江省政府奖学金，特颁此证





**Taiyuan Zhnag (20318174)**

For participation in:

Faculty of Science and Engineering  
Student Extra-Curriculum Programme  
2021-2022

FoSE Undergraduate Research Placement  
Summer round



A handwritten signature in blue ink, appearing to read "Prof. Tao Wu".

**Prof. Tao Wu**  
Dean of Faculty of Science and Engineering



# Taiyuan ZHANG (20318174)

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For participation in:

Faculty of Science and Engineering  
Student Extra-Curriculum Programme  
2022-2023

FoSE Undergraduate Research Placement  
In-semester round



A handwritten signature in black ink, appearing to read "Prof. Tao Wu".

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Prof. Tao Wu  
Dean of Faculty of Science and Engineering

# Internship Certificate

To: Admissions and Career Development Office, University of Nottingham Ningbo China

The student Taiyuan Zhang(name) whose student ID is 20318174 has been an intern in our company from 2022.06.27 to 2022.07.22 (Date) as Mathematical Modeling Intern. The comments of the student's performance during the internship are as following:

During the internship period, the student was active and fully participated in the R&D team. He consulted with the experts in company with an open mind. After learning the related modelling technique, he devoted to the program development here. The period shows his interest and talent in scientific research.

Yours sincerely

Contact Person: H & R Manager, Zhi Fang Xu

Contact Department: H & R Department

Company Address: 1st Street, HEDA, Hangzhou, zhejiang.

Company (seal):

Date: 2022.7.20

## 实习证明

宁波诺丁汉大学招生与就业发展办公室:

贵校学生 张泰源 (学号: 20318174) 于 2022 年 6 月 27 日至 2022 年 7 月 22 日在本单位完成实习, 实习职位是数据建模实习生, 鉴定评语如下:

该生实习期间表现积极, 很快融入到公司科研团队中, 能认真向研究所内导师请教, 实习期间认真学习建模技术并参与项目的开发工作, 表现出了其对科学研究探索的兴趣和热情。

此致

敬礼!

联系人 (人事部经理): 王经理

联系部门: 人力资源部  
单位地址: 杭州下沙经济开发区1号大街1号





# Certificate

THIS CERTIFIES THAT

**Taiyuan ZHANG**

is awarded the **Third Prize**  
in the **2023 UNNC Golden Interns Competition**

Careers and Employability Service





# 2021

蔚来杯

## 中国大学生电动方程式大赛 FORMULA STUDENT ELECTRIC CHINA

### 全国三等奖

E56 宁波诺丁汉大学

指导老师: Dunant

参赛队员: 王志卓 冉燎原 张栩雋 余艾洋 方羿月 郑富元 陈轶宁

邵颐中 王涵旸 张泰源 陶骏杰 余逸凡 徐清扬 William Widjaja Ricky Ferdinand Ti

Clement Stefano Harcen

李健

理事长/主任 Director General/Chairman



中国大学生方程式汽车大赛公众平台



中国汽车工程学会  
China Society of Automotive Engineers



# 中国大学生方程式系列赛事电气安全员培训证书

## Electrical System Officer Training Certificate of Formula Student China

张泰源于 2021 年 06 月 19 日参加由中国汽车工程学会组织的“中国大学生方程式系列赛事电气安全员培训”，完成规定课程学习 10 课时。学习期满，准予结业。

Zhang Taiyuan is granted a Training Certificate of Electrical System Officer issued by China Society of Automotive Engineers, upon completion of the training program.

身份证号 ID Card No.: 231003200111123513

证书编号 Certificate No.: CSAEES020210141



中国汽车工程学会

China Society of Automotive Engineers

中航锂电科技有限公司

China Lithium Battery Technology Co. Ltd.



2021 年 6 月

June, 2021



# 2021

蔚来杯

中国大学生电动方程式大赛  
FORMULA STUDENT ELECTRIC CHINA

## 参赛证书

E56 宁波诺丁汉大学

张泰源

231003200111123513

李骏

理事长/主任 Director General/Chairman



中国大学生方程式汽车大赛公众平台



中国汽车工程学会  
China Society of Automotive Engineers



3 门独立课程

Mathematics for Machine  
Learning: Linear Algebra

Mathematics for Machine  
Learning: Multivariate  
Calculus

Mathematics for Machine  
Learning: PCA

Imperial College  
London

2023-8-22

Taiyuan Zhang

已经完成了网络非学分专项课程

# Mathematics for Machine Learning

A sequence of 3 courses on the prerequisite mathematics for applications in data science and machine learning. Successful participants learn how to represent data in a linear algebra context and manipulate these objects mathematically. They are able to summarise properties of data sets and map them onto lower dimensional spaces with principal component analysis. Finally they can solve optimisation problems and use this skill to train models for describing data such as simple neural networks.

A handwritten signature in blue ink, appearing to read "David Dye".

David Dye  
Professor of Metallurgy  
Department of  
Materials  
Imperial College London

A handwritten signature in blue ink, appearing to read "Samuel J. Cooper".

Samuel J. Cooper  
Lecturer  
Dyson School of Design  
Engineering  
Imperial College London

A handwritten signature in blue ink, appearing to read "Marc Delsenroth".

Marc Delsenroth  
Senior Lecturer  
Department of  
Computing  
Imperial College London

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

此证书的认证地址:

<https://coursera.org/verify/specialization/YKF7RPZ5GB9F>



2023-11-7

Taiyuan Zhang

通过了课程

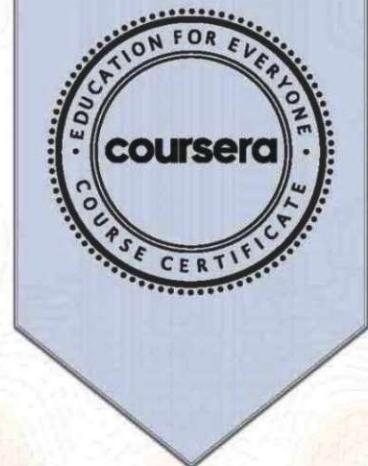
Applied Machine Learning in Python

此非学分网络课程由 University of Michigan 授权，通过 Coursera 平台完成授课

A handwritten signature in black ink that appears to read "KCT".

Kevyn Collins-Thompson  
Associate Professor  
School of Information

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/VL2K26DE7F3J>  
参加该课程学习者的身份已经通过了 Coursera 的认证。

# UC San Diego



HIGHER SCHOOL OF ECONOMICS  
NATIONAL RESEARCH UNIVERSITY

2023-8-14

## Taiyuan Zhang

通过了课程

Data Structures

此非学分网络课程由 University of California San Diego 授权，通过 Coursera 平台完成授课



Alexander S. Kulikov, Visiting Professor; Michael Levin, Associate Professor; Neil Rhodes, Adjunct Faculty; Daniel M Kane, Assistant Professor, Computer Science and Engineering at the University of California, San Diego

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/AAU2CGBMON86>

参加该课程学习者的身份已经通过了 Coursera 的认证。

# UC San Diego

2023-9-10

## Taiyuan Zhang

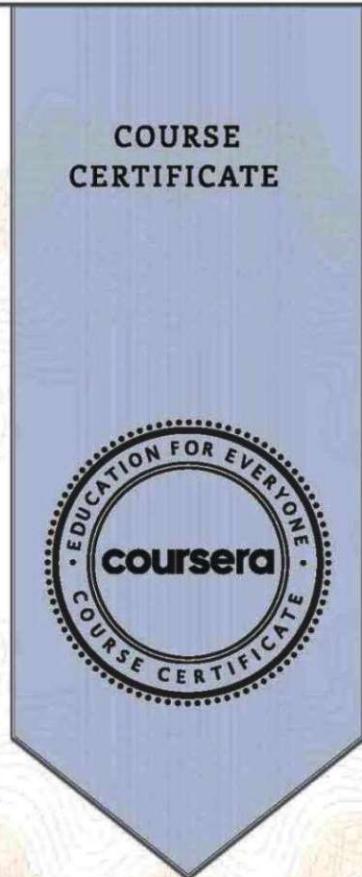
通过了课程

### Algorithmic Toolbox

此非学分网络课程由 University of California San Diego 授权，通过 Coursera 平台完成授课



Alexander S. Kulikov, Visiting Professor; Michael Levin, Associate Professor; Neil Rhodes, Adjunct Faculty; Pavel A. Pevzner, Ronald R. Taylor Distinguished Professor of Computer Science, Director, NIH Center for Computational Mass Spectrometry; Daniel M. Kane, Assistant Professor, Computer Science and Engineering at the University of California, San Diego



Verify at:  
<https://coursera.org/verify/69HGB9T26SJE>  
参加该课程学习者的身份已经通过了 Coursera 的认证。



# ONLINE

2023-10-12

## Taiyuan Zhang

通过了课程

### Fundamentals of Quantitative Modeling

此非学分网络课程由 University of Pennsylvania 授权，通过 Coursera 平台完成授课

Richard Waterman  
Professor of Statistics  
Wharton School  
University of Pennsylvania

COURSE  
CERTIFICATE



Verify at:  
[coursera.org/verify/LMEPZPC7F3QJ](https://coursera.org/verify/LMEPZPC7F3QJ)

参加该课程学习者的身份已经通过了 Coursera 的认证。

The online course named in this certificate may draw on material from courses taught on-campus, but it is not equivalent to an on-campus course. Participation in this online course does not constitute enrollment at the University of Pennsylvania. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

# CERTIFICATE

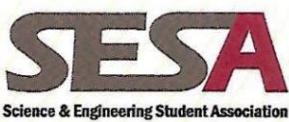
## OF ACHIEVEMENT

THIS CERTIFICATE IS PROUDLY PRESENTED TO

张 泰 源

Congratulations! For your excellent performance in this semester, you are awarded as **Outstanding Staff** in Science and Engineering Student Association from 2020 to 2021.

WISH YOU ACHIEVE MORE IN THE FUTHER CAREER.



2022

# Mathematical Contest In Modeling®

## Certificate of Achievement

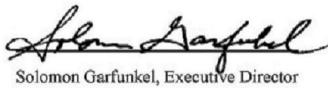
Be It Known That The Team Of

Taiyuan Zhang  
Zheng Luo  
Bo Ying

With Faculty Advisor  
Daniele Garrisi

Of  
University of Nottingham Ningbo China

Was Designated As  
Successful Participant

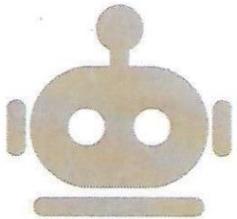
  
Solomon Garfunkel, Executive Director

Administered by  
  
With support from

  
Steven B. Horton, Contest Director



# ROBOPIXEL



UNNC PIXEL

## — certificate —

of Participation

THIS CERTIFICATE IS PRESENTED TO

IN RECOGNITION OF YOUR OUTSTANDING ACCOMPLISHMENT  
IN THE COMPETITION FIGHTING THE EPIDEMIC

Date

Library

Faculty of Science and Engineering

signature



PIXEL





University of  
Nottingham  
UK | CHINA | MALAYSIA

This certificate is presented to:

**Taiyuan ZHANG (20318174)**

For the award of

**The 1<sup>st</sup> UNNC Mathematics  
Olympiad Competition**

**Honorable Mention**

A handwritten signature in blue ink, appearing to read "Dapwu".

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Prof. Tao Wu

Dean of Faculty of Science and Engineering  
Vice Provost for the China Beacons Institute

May 2022

Faculty of Science and Engineering  
University of Nottingham Ningbo China