

# Chen Tianhao 陈天豪

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## Education Qualifications

08/2019 - 07/2022 **MSc in Data Science (Precision Medicine), University of Macau**

Supervisor: [Prof. Xiaohua Douglas Zhang](#); GPA: 3.58/4.00;

Research direction: data management, analysis and interpretation for biomedical studies;

Visiting Student (Intern) at *Guangzhou Medical University* during the pandemic in 2020.

08/2015 - 06/2019 **BSc in Materials Science and Engineering, Harbin Engineering University**

GPA: 86.3/100, Major Ranking: 32/141 (top 22.2%);

Exchange student at the *National Central University (Taiwan)* (09/2017 - 01/2018).

## Trained Experiences

08/2020 - 08/2020 2020 PKU Summer School in Biostatistics, Dept. of Biostatistics, *Peking University*

Took 7 online minicourses on biostatistics, passed the coursework to be a granted student.

07/2017 - 07/2017 Summer School for Micro-/Nanofabrication, *Institute of Physics, CAS, Beijing*

## Research Experiences

05/2021 - Present **Data Curation for Biological Studies with Rodent Shrapnel Model**

A collaborative project with PIs from *University of Kentucky's College of Public Health*

Routine bioinformatics analysis was carried out (May-June). Then a database with a webapp for the

curated collection of the biological data was developed, a manuscript is under preparing (July-Present).

09/2020 - 07/2021 **Data Analysis of an Allergic Disease Survey in China**

A collaborative project with the *First Affiliated Hospital of Guangzhou Medical University*

Wrote Python scripts for data management of an ongoing epidemiology study. Then investigated the

relationship between allergic rhinitis control and symptoms among China's children via network analysis

approaches, and a manuscript is under preparing.

06/2020 - 08/2020 **Clinical Data Curation and Data Mining**

Responsibility during my stays at the *Guangzhou Medical University*

Provided strategies to manage the clinical lab data from multiple sources, a paper is under reviewed.

12/2018 - 05/2019 **Acquisition and Analysis of Digital Welding Signals**

Bachelor's Project in *Harbin Engineering University*

A LabVIEW-based digital signal acquisition platform was built for welding dynamic process monitoring.

Welding experiments were conducted to collect data for downstream analysis.

## Part-Time Positions At UM

06/2020 - Present **Research Assistant**, Faculty of Health Sciences, *University of Macau*

Conduct research with Prof. Xiaohua Douglas Zhang, obtain a subsidy of ~USD\$ 1K per month.

10/2019 - 12/2019 **Tele-interviewer**, Faculty of Society Sciences, *University of Macau*

Carried out public policy surveys to Macao residents via telephone-call.

## Internship Experience

06/2021 - 08/2021 **Consumer Insight Trainee (remote)**, *Bilibili merchandise, Bilibili Inc*, Shanghai, China

Conducted consumer research of ACGN products, in the topics of: *Kaguya-sama: Love Is War* and

*Kimetsu no Yaiba*, via qualitative approaches like desk research, interviews and so on.

## Teaching Experience

Courses Served as **Teaching Assistant at Harbin Engineering University**

04/2017 - 08/2017 **Student Teaching Assistant**, 201411041 College Physics I at Spring 2017

Gave in-class lectures to those who had to take the re-sit examination during the 2017 summer vacation.

## Volunteer Experiences

11/2019 - 11/2019 Volunteer at IEEE/RSJ International Conference on Intelligent Robots and Systems 2019, Macau, China (IROS2019)

10/2016 - 04/2017 Led a Left-Behind Children Care Project in Harbin

## Useful Skills

**Quantitative Analysis:** R and Python for biomedical studies; Tableau; LabVIEW.

**Qualitative analysis:** Secondary research, Semi-structured interview.

**Development Skills:** R-Shiny, Django (Python-based); MySQL & mongoDB; Git and Docker (beginner).

**Experiment Skills:** Manual arc welding; lab skills for chemistry (e.g., Hydrothermal experiment).