

# Chengyu Zhang

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## EDUCATION

**New York University Shanghai**, *Bachelor of Science*. Shanghai, China

Aug 2019 – May 2023

Majors: Data Science (Concentration in Artificial Intelligence), double major in Interactive Media Arts

Current GPA: 3.96/4.0

Relevant Courses: Application Lab, Communication Lab, Introduction to Computer Science, Data Structures, Machine Learning, Database Design and Implementation, Information Visualization, Artificial Intelligence, Linear Algebra, Probability and Statistics, Multivariable Calculus, Econometrics, Linear and Nonlinear Optimization.

## SELECTED PROJECTS AND RESEARCH

*Emojified Social Media*, <https://github.com/MstXy/Emojified-Social-Media>

Apr 2020

- Scrape Twitter using Python and filtered them to only include tweets with emojis.
- Use Python library and datasets to determine text sentiment and emoji sentiment.
- Design website using d3.js to visualize the result with respect to emoji combinations, position, spam, sentiment.
- Exhibited at *FutureLab 2020*.

*Boosting Few-Shot Segmentation via Instance-Aware Data Augmentation and Local Consensus Guided Cross Attention*,

- Sponsored by NYU Shanghai Deans' Undergraduate Research Fund (DURF). Summer 2022
- Submitted to the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2023.

*Towards Generalized Few-shot Segmentation: On Contrastive Learning and Background Information Modeling*,

- Data Science Capstone project on the proposed generalized few-shot segmentation task. Sep – Dec 2022

*Research and Implementation of Video Semantic Segmentation, with Possible Improvements*, Summer 2021

- Research into state-of-the-art papers in video semantic segmentation, implement the algorithms and explore possible improvements in the algorithms.
- Sponsored by NYU Shanghai Deans' Undergraduate Research Fund (DURF).

## EXPERIENCE

*Artificial Intelligence Business Analyst*, **Yitu Technology**. Shanghai, China,

Dec 2022 – Present

- Collect, process and analyze business data, assist in artificial intelligence project management.
- Research the front-edge industrial field of computer vision, and artificial intelligence ethics and regulations.

*Computer Vision Research Assistant*, Mentor: Prof. Li Guo, **NYU Shanghai**

Apr 2022 – Present

- Conduct individual and teamed research in the field of computer vision.

*Interactive Media Arts*, **NYU Shanghai**

*Lab Assistant*,

Oct 2019 – May 2020

- Manage check-in, check-out and maintenance of devices and equipment in Interactive Media Arts' Laboratory.
- Manage and make analysis on IMA course supply budget using Google sheet.

*Lab Technician*,

May 2020 – Jan 2023

- Make and deploy computer image for school laptops (MacOs and Windows), install and setup applications.
- Be the inventory system admin, manage and maintain physical and virtual assets.
- Offer technical support to students and professors on computers and audio-video devices.

- Contact vendors and associate with various school departments for daily IMA operations.
- Cooperate with the manager on IMA operation, including the hiring process.

*Research Assistant at the Human-Data Interaction Lab, NYU Abu Dhabi* Oct – Dec 2021

- Design and visualize database algorithms and data structures in D3.js and JavaScript.
- Document code used for visualizations and maintain the latest version on shared GitHub repositories.

*Member of the Media Committee, OnCenturyAvenue. Shanghai, China* Jul 2020 – Aug 2021

- Help to maintain the website based on WordPress using HTML, CSS, JavaScript and basic PHP.
- Design and publish news to websites and WeChat official account.

## **LEADERSHIP ACTIVITIES**

*Volunteer, Weland. Beijing, China* Jul – Aug 2019

- Volunteered for 7 days in Beijing, helping staffs to manage the Youth Leadership Summer Camp. Tasks involving translation for classes, activity arrangement and management, blog posting.

*Model United Nation, Weland. Beijing, China*

*Assistant Director* Aug 2019

- Participated in WeMUN EXPO 2019 UNDP conference as an Assistant Director, hosting and making record of the conference for 3 days and a half.

*Delegate* Aug 2016

- Participated in WeMUN EXPO 2016 ECOFIN conference as a Delegate on the topic of Pollution, won the Diplomacy Award.

*Students Union, Pudong Foreign Language School. Shanghai, China* Sep 2016 – Jun 2018

- In charge of the school environment department. Hold meetings for students and assign tasks on maintaining the school environment.
- Established several campaigns on campus on environment protection.
- Co-organized several successful students' activities with other members of the Students Union.

## **SKILLS**

Programming: Python, HTML, CSS, JavaScript, R, PyTorch, React.js, d3.js, p5.js, Swift, MySQL, Julia.

Documenting: Microsoft Office applications, Google Sheets, Google Slides, Google Docs.

3D modeling: Fusion360, Cinema 4D.

Design and Creation: Adobe Audition, Photoshop, Premiere, Illustrator, Unity.

Languages: Fluency in Chinese and English, beginner in French.

GRE: 166 (Verbal) + 170 (Quantitative) + 4.5 (Analytical Writing)

TOEFL: 116 (Reading: 30, Listening: 30, Speaking: 30, Writing: 30)

## **HONORS**

Dean's List for Academic Year, **NYU Shanghai** June 2022, 2021, 2020

Recognition Award, **NYU Shanghai** July 2022, 2021, 2020

NYU Shanghai Global Elite Scholarship, **NYU Shanghai** Aug 2019

## **INTERESTS**

Guitar, Computer programming, Game ideas, Web development, Artificial intelligence, Hip hop music.