

Changpeng Yang

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EDUCATION EXPERIENCES

Peking University

Beijing, China

Master of Industrial Software, Cell Mechanics Lab.

Sep. 2021 – June 2024 (Expect)

- **Key Courses:** Machine Learning, Cell Mechanics, Multi-omics Artificial Intelligence Methods.

University of Shanghai for Science and Technology

Shanghai, China

Bachelor of Information Management and Information Systems.

Sep. 2016 – June 2020

- **Key Courses:** Operating System, Data Structures and Algorithms, Computer Network, Management Science.

RESEARCH INTERESTS

- Lab and pipeline automation.
- Develop open-source computer vision algorithms on microscopy image analysis.
- High-throughput drug screen combined with automation equipment and artificial intelligence tools.
- Dissecting multi-omics data with artificial intelligence algorithms such as transformers.
- Large language and vision models to understand cell.

RESEARCH EXPERIENCES

Institute of Biomaterials, Chinese Academy of Science

Zhejiang, China

Visiting Student

Jan. 2023 – Sep. 2023

A high-throughput drug screen system based on deep learning to recognize collagen gel contraction

- Learn cell culture and wet lab related techniques from scratch.
- Devise and implement protocol to validate collagen gel contraction for drug screen.
- Explore semantic segmentation algorithms to improve the efficiency of collagen gel recognition.
- High-throughput drug screening using AI algorithms, pipetting workstations, and high-content microscopy.
- Validate the whole system on range of cells and drugs.
- Patent pending and deeper research exploration.

PROFESSIONAL EXPERIENCES

4Paradigm

Beijing, China

Computer Vision Intern

June 2022 – Dec. 2022

- Adapt MMCV flexibly to explore a series of algorithms for the following projects.
- Image Segmentation Algorithm for Image Tampering Region Recognition.
- Content Based Image Retrieval Algorithm.

Cyberwing

Beijing, China

Large Language Model Intern

Nov. 2023 – June 2024 (Expect)

- Investigate LLMs development in different fields.
- Develop an auto assistant to facilitate prompt engineering.
- Analyze raw data characteristics and construct a high-quality corpus.

HONORS AND AWARDS

Hongcai Scholarship, Peking University

Sep. 2021

Outstanding Graduate, University of Shanghai for Science and Technology

June 2020

EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

Project manager of You & Me, A Public Benefit Program on Spiritual Accompaniment.

Sep. 2017 – Sep. 2019

Leader of Summer Charity Teaching Team.

July 2018 – Sep. 2018

SKILLS AND CERTIFICATIONS

Skills: Python, C++, Pytorch, Wet experiment skills.

Language: Chinese(native), English(CET4-545, CET6-547, IELTS 6.5).

Interests: Volunteering, Photography, Cycling.