

# Fengyuan Dai

Website | [GitHub](#)

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## RESEARCH INTERESTS

Diffusion Models, Protein Design, Compositional Zero-Shot Learning, Few-Shot Learning.  
Machine Learning, Artificial Intelligence.

## PUBLICATION

**Fengyuan Dai**, Siteng Huang, Min Zhang, Donglin Wang. Focus-Consistent Multi-Level Aggregation for Compositional Zero-Shot Learning. (under review)

## EDUCATION

### Shanghai University

Bachelor of Computer Science and Technology

Sep. 2019 – Jul. 2023

**GPA:3.78/4, Ranking:6/86**

### Westlake University & ZJU

Joint Ph.D student, Computer Science

Sep. 2023 – Jul. 2028(Expected)

## EXPERIENCE

### Research Intern

MiLAB, Westlake University

Jun. 2022 – May 2023

- Conducted a literature review in the field of Compositional Zero-Shot Learning and Domain Generalization.
- Developed a novel method to recognize unseen attribute-object compositions by transferring knowledge from seen compositions.

## PROJECTS

### Medication Assistant Applet

Dec. 2021 - Apr. 2022

- Designed a WeChat-based applet to popularize practical health insurance in a entertaining but scientific way. The main functions are self-checking drugs for minor illness, drug prices comparing, medication reminders.
- We gather additional information with the help of web spider, which is implemented by python.
- The project won the third prize of Shanghai University Student Computer Application Ability Competition.

### Self-Study Deep Learning

Dec. 2021 - Jan. 2022

- Learned the classical convolutional neural networks through self-study, such as AlexNet, VGG, etc.
- Comprehended Transformer by implementing it based on PyTorch.

### Advances in Computer Science

May 2021

- Designed a program based on python, which is used for RSA encryption and decryption.
- Cracked binary files with IDA, OllyDbg and LordPE tools.
- Built a demonstrative website and simulated the SQL injection attack process.

## AWARDS

- First Class Academic Scholarship, 2022
- Second Class Academic Scholarship, 2021
- Second Class Academic Scholarship, 2020

## TECHNICAL SKILLS

**Languages** : Chinese(Native), English(Fluent).

**Others** : Python, PyTorch, Latex, Linux, Git.