



Ke Xing

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## Skills

- \* CET-4 612
- \* CET-6 501
- \* IELTS In preparation
- \* Full stack website development experience

## Education

Sep 2022 - Present

**Beijing Jiaotong University**

Computer Science (Bachelor)

- GPA: 3.74 / 4.0
- Score & Ranking: 89.3/100.0 (23.5%)

## Research Experience

Bioinformatics: Protein sequence Classification, 2023

- \* Advised by Prof. Rui Wang, BJTU
- \* Collaborator: Prof. Rui Wang, BJTU
- \* Research Content: Classification and functional prediction of GH29 family protein sequences based on BERT Model

Computer vision: Image Distortion Correction, 2024

- \* Advised by Lang Nie, BJTU
- \* Collaborator: Bowen Nie, BJTU | Jingwen Chen, BJTU
- \* Research Content: Wide-angle Image Distortion Correction Based on Diffusion Model

Computer vision: 3D & 4D scene Generation & Editing, 2024

- \* Advised by Prof. Yunchao Wei, BJTU
- \* Collaborator: Yuyang Yin, BJTU | Haoye Dong, CMU
- \* Research Content: Single Image & Text to 4D panoramic scene generation and animation

Computer vision: 3D & 4D scene Reconstruction, 2024

- \* Advised by Prof. Yunchao Wei, BJTU
- \* Collaborator: Dejia Xu, UT Austin | Yuyang Yin, BJTU | Hanwen Liang, UofT
- \* Research Content: 4D Reconstruction of Panoramic videos

## Awards

- \* Patents: Methods and Systems for Enzyme Substrate Specificity Prediction with Self-supervised Deep Learning, 2024
- \* Software copyright: GH29 family protease function prediction software V1.0 based on deep learning, 2024
- \* The MCM/ICM S Award, 2023
- \* National award of Beijing Jiaotong University College Student Innovation and Entrepreneurship Competition, 2023

## Publications

**Exploring the sequence-function space of microbial fucosidases**

Published in Nature Communications Chemistry, SCI 2 2024

**Beyond Wide-Angle Images: Unsupervised Video Portrait Correction via Spatiotemporal Diffusion Adaptation**

Submitted to ICCV 2025, CCF A (Under Review)

**TiPGEN: Text to Immersive Panorama 4D Scene Generation**

ACM MM 2025, CCF A (In Preparation)