

Keyi Wang

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EDUCATION

- Fudan University (Ongoing)** Sept. 2025 – July 2028
M.Sc. in Computer Science Shanghai, China
- Supervised by Prof. Yanghua Xiao
- Hangzhou Dianzi University** Sept. 2021 – July 2025
B.Eng.(Honors) in Computer Science and Technology, GPA 88.6 (top 2.7% of the department) Hangzhou, China
- Main course: Advanced Data Structure and Algorithm Analysis (100), ACM Programming (100), Data Mining (94), Natural Language Processing(94), Theories and Approaches for Optimization (93), Data Structure (91), Discrete Mathematics (90), Mathematical Analysis 2 (90)
 - Supervised by Prof. Zhou Yu and Prof. Xiaoxi Huang
- Kristianstad University** Aug. 2023 – Jan. 2024
School-Sponsored One-Semester Exchange Student Kristianstad, Sweden
- Learned Data Communication, Operating System and Computer Security, with enhanced understanding of international perspectives in computer science.

PUBLICATION

- Ding Chen, **Keyi Wang**, Zhou Yu, Jun Yu. A Human Posture Scene Restoration Method Based on the Adaptive Network Enhanced Diffusion Model. CN202311293866.1[P]. 2024.01.12

RESEARCH EXPERIENCE

- Edit-GPT: Instance-level Image Editing with LLM Agent** Nov. 2023 – Present
Co-author
- Developed a novel LLM-based interface for image editing, achieving a 30% reduction in discrepancies between model outcomes and editing commands.
 - Enabled complex editing commands with 79.55% accuracy, including add, delete, replace, move, style conversion.
 - Outperformed SDEdit, InstructPix2Pix and MGLE in 94.73 % of test within 5 metrics, including CLIP.
 - Authored a research paper, currently under review of IEEE TCSVT following valuable ACM MM feedback(2, 3, 4).
- Skills: Natural Language Processing·Large Language Models·Diffusion Models·Image Editing·Academic Writing·Pytorch·Python
- Text Knife: Text-Guided 3D model Self-Construction** Feb. 2023 - Oct. 2023
Co-author
- Implemented Text-to-3D conversion by integrating OpenAI's Point-E with ControlNet for constrained point cloud generation.
 - Completed preliminary baseline model
 - Achieved a public patent (as second author, see "Publication"), which proved a theoretical upper bound on the discrepancy between multiple diffusion models in 3D generation tasks.
- Skills: Text-to-3D Conversion·Point Cloud Generation·Artificial Intelligence·Pytorch·Python

INTERNSHIP

- Qi-AnXin Technology Group Inc.** July 2024 – Aug. 2024
Internship in Security Services Hangzhou, China
- Conducted comprehensive vulnerability assessments, identified and reported over 10 critical vulnerabilities such as Username Enumeration, SMS Bombing, and Sensitive File Leakage.
 - Participated in 3 external penetration tests for various enterprises and provincial departments, Enhanced the security posture of the enterprise by providing detailed vulnerability reports and recommended mitigations.
- Skills: Burpsuite·Dirsearch·CKnife·Kali·SQL·PHP·AWVS·OWASP TOP10·

AWARDS

- The Mathematical Contest in Modeling (MCM)®️, Meritorious Prize, Top 6%
- Contemporary Undergraduate Mathematical Contest in Modeling(CUMCM), Third Prize in Zhejiang Province
- Advanced Mathematics(Calculus) Contest, Third Prize in Zhejiang Province
- Huawei Software Elite Challenge, the 17th place (Second Prize) in the Hangzhou-Xiamen Division
- China Computer Federation Certified Software Professional(CCF CSP), 330/500 Point, rank 2.43%
- Multiple first-level and individual scholarships of the school

EXTRACURRICULAR ACTIVITIES

- Shenzhen Zhisike Culture Education Technology Co., LTD** Sept. 2024 – March 2025
Teacher Hangzhou, China
- Teach the USACO programming competition to students in foreign high schools. I am in charge of the fundamental C++ language course, whose difficulties range from fundamental grammar to STL algorithms.
- European Days of Language** Sept. 2023
Teacher Kristianstad, Sweden
- Volunteered as a Chinese language teacher at Degebergaskolan School, receiving outstanding volunteer recognition for engaging with students and sharing Chinese culture.
 - Actively impart Chinese knowledge to Swedish students, enthusiastically answer students' questions, and have in-depth exchanges with school teachers.
- Language Chat Community of Zhuoyue College, HDU** Sept. 2022 – June 2023
Teacher Hangzhou, China
- Taught linguistics, geography, and history in these series of courses, published 20 videos and reaching over 69,000 views online.
 - Provide teaching of linguistics, geography, history and other knowledge related to language for younger schoolmates.

SKILL SET

Human Languages: Chinese(native), English(C1, IELTS 7.0(R8.5))
Programming Languages:C++, Python, Java, LaTeX
Interests: Linguistic, Geography