Keyi Wang

📞 (+86) 138 6765 1901 | ✉ wky32768@qq.com

EDUCATION

The University of Hong Kong(QS17, Ongoing) Sept. 2025 – July 2026
M.Sc. in Computer Science, General Stream Hong Kong S.A.R., China

Hangzhou Dianzi University Sept. 2021 – June 2025
B.Eng. in Computer Science, GPA 4.36/5(88.6/100), rank in the top 2.7% of the department Hangzhou, China

- Main course: Advanced Data Structure and Algorithm Analysis (100), ACM Programming (100), Data Mining (94), Theories and Approaches for Optimization (93), Data Structure (91), Discrete Mathematics (90), Mathematical Analysis 2 (90), Principle and Practice of Compiler (88), Principle of Computer Organization (88)

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 – Present
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 18 videos and reaching over 61,000 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