

## Xi Wang (王曦)

Independent Researcher, B.S. in Math & B.Eng. in Computer Science, China

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## Biography

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I am currently an independent researcher, and closely work with Prof. Yang Zhou at Visual Computing Research Center (VCC). Before that, I received my B.S. degree in math from School of Mathematical Sciences (SMS), Shenzhen University (SZU), and B.Eng. degree in computer science from College of Computer Science and Software Engineering (CSSE), SZU.

My research interests include [computer graphics](#), [computer vision](#), and their applications in [creative arts](#). My recent research primarily focus on [real-time rendering](#), [AIGC-aided artistic creation](#), and [the theory of diffusion models and reinforcement learning](#).

I have a strong preference for research that involves [explicit modeling](#), [solid theoretical foundations](#), and [high interpretability](#). I don't particularly like training a neural network as a black box, with no insight into why and how it works.

I also have strong interests in [artistry](#) ([music](#), [visual arts](#)) and [occultism](#) ([mind-body-spirit](#), [Tarot](#), [Astrology](#)).

## Education

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**Shenzhen University (SZU)**, Shenzhen, China

2021.09 - 2025.06

- Bachelor of Science (B.S.) in Mathematics (Information and Computing Science) (GPA: 87.9 / 100 ; Ranking: 5 / 19)
- (Minor) Bachelor of Engineering (B.Eng.) in Computer Science and Technology (Total Credits: 180)

## Honors and Awards (Selected)

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### Scholarships

- [National Scholarship of China for Undergraduates](#) ([top 0.2% nationwide](#)) (2023 - 2024 academic year)

### Honors

- Outstanding Undergraduate Graduate of Shenzhen University (333 / 6799, top 4.90% in SZU) (2025)
- Nomination Award for Excellent Star of Shenzhen University (16 / 30, 000, [top 0.053% in SZU](#)) (2023 - 2024 academic year)

### Academic Awards

- National 2nd Prize, Blue Bridge Cup Nation Software and Information Technology Professional Talent Competition, Software Development (Python B Group) (top 20% nationwide) (2025.06)
- National 2nd Prize, Blue Bridge Cup Nation Software and Information Technology Professional Talent Competition, Software Development (C/C++ B Group) (top 20% nationwide) (2024.06)
- National 1st Prize (Team) & National 3rd Prize (Individual), Group Programming Ladder Tournament of China Collegiate Computing Contest (2024.02)
- National 2nd Prize (Team), China Undergraduate Mathematical Contest in Modeling ([top 2% nationwide](#)) (2023.09)
- Silver Medal (Team), The 2023 ICPC China Shannxi National Invitational Programming Contest (2023.05)
- Bronze Medal (Team), The 2022 ICPC Asia Hefei Regional Contest (2022.11)

## Academic Experience

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**Visual Computing Research Center (VCC)**, Shenzhen University, China

(2024.08 - present)

- Position: Research intern
- Supervisor: Prof. Yang Zhou
- Research Topics: The theory of diffusion models, Image synthesis and editing

## Leadership (Selected)

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- SZUMusical Musical Club**, Shenzhen University (2024.08 - 2025.06)  
 Position: Vice president (Stage management)
- SZUACM ACM Algorithm Training Team**, Shenzhen University (2023.06 - 2024.09)  
 Position: Vice captain & Student coach

## Publications (Selected)

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**T**: Theory; **CG**: Graphics; **2DV**: 2D Vision; **3DV**: 3D Vision

\*: Equal contribution; †: Corresponding author.

- Supervised Pre-training and Adversarial Distillation for Point Cloud Synthesis (Under Review) (2025.06)  
 Ziqi He, Kailun Su, **Xi Wang**, Yang Zhou<sup>†</sup>  
 Google: <https://drive.google.com/drive/folders/1jDLQ11nMH4ptxjLpJ3gq8V1vgRwx8hq5?usp=sharing> (**3DV**)
- Dynamic Importance in Diffusion U-Net for Enhanced Image Synthesis (ICME 2025, CCF B) (2024.12)  
**Xi Wang**, Ziqi He, Yang Zhou<sup>†</sup>  
 arXiv: <https://arxiv.org/abs/2504.03471> (**2DV**)
- Articulated Object Manipulation using Online Axis Estimation with SAM2-Based Tracking (Under Review) (2024.09)  
**Xi Wang**<sup>\*</sup>, Tianxing Chen<sup>\*</sup>, Qiaojun Yu<sup>\*</sup>, Tianling Xu, Zhanxin Chen, Yiting Fu, Cewu Lu<sup>†</sup>, Yao Mu<sup>†</sup>, Ping Luo<sup>†</sup>  
 arXiv: <https://arxiv.org/abs/2409.16287> (**3DV**)

## Portfolio (Selected)

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- “Star Dream Stage” Musical Gala, Shenzhen University (2024.11)  
 Positions: Assistant Director, Control Room Operator  
 Responsibilities: Overall coordination (costume, makeup, prop, grew), VJ (Visual Jockey) control

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## Self-Media & Teaching (Selected)

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As a **self-media content creator**, I maintain an educational channel on Bilibili (Hytidel) with **10k+** subscribers. Although I am **not** a lecturer or professor, I enjoy synthesizing my knowledge and **creating online courses** to disseminate insights. I am honored that, these courses have garnered significant viewership (**1M+**), and **genuinely helped numerous students**.

### Open Courses:

- Introduction to Multimedia Systems* Crash Course (2024.07)
- Operating Systems* Crash Course (2024.07)
- Digital Image Processing* Crash Course (2024.07)
- Numerical Analysis* Crash Course (2024.01)
- Probability Theory and Mathematical Statistics* Crash Course (2023.07)
- Introduction to Computer Security, Network Security and Cryptography* Crash Course (2023.07)
- Digit Circuit* Crash Course (2022.04)
- University Physics* Crash Course (2022.04)
- Physical Geography* Crash Course (2020.02)

## Skills (Selected)

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- **Programming:** Python (proficient), C++ (intermediate)
- **AI Theory:** Deep Learning (intermediate), Reinforcement Learning (intermediate)
- **AI Framework:** PyTorch (proficient)
- **2D Design:** Computational Geometry (intermediate), Adobe Photoshop (intermediate), Adobe Premiere (intermediate)
- **Performance:** Vocal (basic)
- **Languages:** Mandarin (native), Cantonese (native), English (intermediate)