

Zhaoyang Zhang

PH.D. STUDENT @ YALE COMPUTER GRAPHICS GROUP

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Summary

I am a 4th-year Ph.D. student at the Yale Computer Graphics Group, advised by Prof. Julie Dorsey and Prof. Holly Rushmeier. My research interest lies in geometrically consistent scene/video generation. Prior to joining Yale, I obtained my B.Eng. (summa cum laude) in Computer Science and Technology from the University of Chinese Academy of Sciences (UCAS) in June 2022.

Education

Yale University

PH.D IN COMPUTER SCIENCE

New Haven, CT, USA

Jul 2022 – Present

- **Advisor:** Prof. Julie Dorsey

University of Chinese Academy of Sciences

B.ENG. IN COMPUTER SCIENCE AND TECHNOLOGY (SUMMA CUM LAUDE)

Beijing, China

Sep 2018 – Jun 2022

- **Advisor:** Prof. Lin Gao
- **GPA:** 3.90/4.00, ranking 4/104
- **Awards:** Outstanding Graduate, Outstanding Undergraduate Thesis

Experience

Apple

RESEARCH INTERN

Cupertino, CA, USA

May 2025 – Aug 2025

- **Topic:** Visual synthesis with DiT

Adobe

RESEARCH INTERN

San Jose, CA, USA

May 2024 – May 2025

- **Mentors:** Yiwei Hu, Miloš Hašan, Yannick Hold-Geoffroy, Fujun Luan
- **Topic:** 3D scene generation

Publication

Generating 360° Video is What You Need For a 3D Scene

SIGGRAPH Asia 2025

ZHAOYANG ZHANG, YANNICK HOLD-GEOFFROY, MILOŠ HAŠAN, ZIWEN CHEN, FUJUN LUAN, JULIE DORSEY, YIWEI HU

[Link](#)

Predicting Fabric Appearance Through Thread Scattering and Inversion

SIGGRAPH 2025

MENGQI (MANDY) XIA, ZHAOYANG ZHANG, SUMIT CHATURVEDI, YUTONG YI, HOLLY RUSHMEIER, JULIE DORSEY

[Link](#)

All-day Depth Completion

IROS 2024

VADIM EZHOV*, HYOUNGSEOB PARK*, ZHAOYANG ZHANG*, RISHI UPADHYAY, HOWARD ZHANG, CHETHAN CHINDER CHANDRAPPA, ACHUTA KADAMBI, YUNHAO BA, JULIE DORSEY, ALEX WONG

[Link](#)

Text2Face: Text-based Face Generation with Geometry and Appearance Control

TVCG 2023

ZHAOYANG ZHANG, JUNLIANG CHEN, HONGBO FU, JIANJUN ZHAO, SHU-YU CHEN, LIN GAO

[Link](#)

Research

Research on 3D Scene Generation from Panoramas

ADOBE RESEARCH

San Jose, CA, USA

May 2024 – May 2025

ADVISOR: YIWEI HU, MILOŠ HAŠAN, YANNICK HOLD-GEOFFROY, FUJUN LUAN

- Study on generating traversable 3D scenes from 360° panorama videos with geometric consistency and completeness.
- Hands-on experiences on finetuning large video diffusion models with complex dataset preprocessing.
- Results published in SIGGRAPH Asia 2025 as a Conference Track technical paper.

Research on Fabric Appearance Prediction Through Thread Scattering and Inversion

YALE UNIVERSITY

New Haven, CT, USA

Aug 2024 – Mar 2025

ADVISOR: PROF. JULIE DORSEY, PROF. HOLLY RUSHMEIER

- Study on predicting fabric appearance through thread scattering and inversion.
- Hands-on experiences on camera calibration, capturing, inverse rendering, Mitsuba, etc.
- Results published in SIGGRAPH 2025 as a Journal Track technical paper.

Research on All-Day Depth Estimation

YALE UNIVERSITY

New Haven, CT, USA

Nov 2022 – Nov 2023

ADVISOR: PROF. ALEX WONG

- Study all-day depth estimation for autonomous driving, design an uncertainty estimation method which leverages pretraining on synthetic dataset to boost performance under real-world scenarios with different lighting conditions, weather, etc.
- Results published in IROS 2024.

Research on Text-guided Face Generation and Manipulation

INSTITUTE OF COMPUTING TECHNOLOGY (ICT), CHINESE ACADEMY OF SCIENCES (CAS)

Beijing, China

Feb 2021 – Sep 2021

ADVISOR: PROF. LIN GAO, PROF. HONGBO FU

- Study on generating photo-realistic human faces conditioned on the textual description with disentangled geometry and appearance control. Geometry and appearance are disentangled using sketches.
- Results published in CVM 2023 and IEEE TVCG.

Honors & Awards

GRADUATE (YALE UNIVERSITY)

Jun 2023 **Yale SEAS/DEIB - SEAS NSBE Ambassador**. Excellence in department service

New Haven, CT

UNDERGRADUATE (UNIVERSITY OF CHINESE ACADEMY OF SCIENCES)

Jun 2022 **Outstanding Undergraduate Thesis**. Department-wise 8/104 awarded

Beijing, China

May 2022 **Outstanding Graduate of Beijing**. Department-wise 2/104 awarded

Beijing, China

Dec 2019 **Merit Student of Beijing**. The only awardee in the class of 2022

Beijing, China

Oct 2019 **National Scholarship of Year 2018-2019**. Only 5 students of Class 22 awarded

Beijing, China

HIGH SCHOOL (NANJING FOREIGN LANGUAGE SCHOOL)

Nov 2017 **Bronze Medal in the 34th Chinese Physics Olympiad (CPhO) Final**. Top 300 among over 700,000 entrants countrywide

Chongqing, China

Sep 2017 **First prize of 34th Chinese Physics Olympiad (CPhO) in Province**. Ranked 7th in Jiangsu, member of the province team

Nanjing, China

Teaching and Services

Teaching Assistant

CPSC 478/578 Computer Graphics (23 Fall, 24 Fall), Yale University

CPSC 479/579 Advanced Topics in Computer Graphics (24 Spring, 25 Spring), Yale University

CPSC 4800/5800 Intro to Computer Vision (25 Fall), Yale University

Reviewer

SIGGRAPH 2025, SIGGRAPH Asia 2025, IEEE Transactions on Image Processing