

# Ang Qi

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Los Angeles, CA, U.S.

## EDUCATION

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### • University of Southern California

*Bachelor of Science*

Aug. 2024 - May 2027  
Los Angeles, CA, United States

- Major: Applied and Computational Mathematics
- Minor: Computer Science
- GPA: 3.82/4.00

### • Beijing Royal School

*High School*

Sept. 2021 - May 2024  
Beijing, China

- Unweighted GPA: 4.19/4.33 (Top 3%)
- Weighted GPA: 4.74/5.0 (Top 3%)

## EXPERIENCE

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### • Physical Superintelligence Lab, University of Southern California

*Research Assistant*

June 2025 - Present  
Hybrid

- Built and evaluated deep learning models for computer vision tasks including image captioning and image classification.
- Implemented and benchmarked transformer-based and self-supervised vision methods, including SimCLR, MoCo, and DINO, for representation learning and downstream evaluation.
- Applied vision-language models such as CLIP, BLIP-2, and LLaVA to image captioning, data filtering, and multimodal reasoning workflows.
- Developed scalable data collection and preprocessing pipelines to support model training and evaluation.
- Surveyed recent literature on VLM robustness and safety to design evaluation criteria for hallucination, negation sensitivity, adversarial failure modes, and benchmark reliability.
- Contributed to ongoing research on safety and failure analysis in state-of-the-art vision-language models, resulting in a manuscript currently under review.

### • Student Union of the Class of 2024, Beijing Royal School

*President*

Oct. 2021 - May 2024  
Beijing, China

- Planned and led large-scale student events, including field day, flag football, talent shows, and photography competitions, each attracting 150+ participants.
- Ran weekly leadership meetings to collect student feedback, evaluate proposals, and improve campus engagement.
- Managed official school social media communications and coordinated event publicity.

### • Laboratory of Microfabrication, Institute of Physics, Chinese Academy of Sciences

*Research Assistant*

May 2023 - Aug. 2023  
Beijing, China

- Assisted with microelectronic substrate fabrication for terahertz communication devices using lift-off processes.
- Operated cleanroom equipment including mask aligners, ICPCVD systems, and electron-beam evaporation tools.
- Supported ultra-low-temperature experiments and quantum transport measurements in a laboratory research setting.

### • Harvard Pre-College Program

*Student*

July 2023 - Aug. 2023  
Cambridge, MA, United States

- Completed a fast-paced, two-week course "Introduction to Relativity: From Cosmic Rays to Black Holes," exploring theories of relativity, Lorentz transformations, and Einstein's field equations using linear algebra and multi-variable calculus.

### • Stanford Pre-Collegiate Summer Institutes

*Student*

July 2023  
Remote

- Studied relativity, quantum mechanics, and particle physics, and completed independent projects on spacetime and special relativity.

## PUBLICATIONS

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### **Large Reward Models: Generalizable Online Robot Reward Generation with Vision-Language Models**

Yanru Wu, Weiduo Yuan, Ang Qi, Vitor Guizilini, Jiageng Mao, Yue Wang

*Under Review*

### **FuzzingRL: Reinforcement Fuzz-Testing for Revealing VLM Failures**

Jiajun Xu, Jiageng Mao, Ang Qi, Weiduo Yuan, Alexander Romanus, Helen Xia, Vitor Campagnolo Guizilini, Yue Wang

*Under Review*

## RELEVANT COURSES

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- **Mathematics & Physics**: MATH-226: Calculus III, PHYS-190: Physics Discovery Series, Math-255: Linear Algebra and Linear Differential Equations, PHYS-161: Advanced Principles of Physics I, MATH-407: Probability Theory, MATH-432: Applied Combinatorics, MATH-408: Mathematical Statistics, MATH-430 Number Theory, MATH-458: Numerical Methods (Fall 2026), MATH-446: Data Science with Python (Fall 2026)
- **Computer Science**: CSCI-103: Introduction to C++, CSCI-170: Discrete Methods in Computer Science, ITP-168: Introduction to MATLAB, CSCI-104: Data Structures, CSCI-270: Introduction to Algorithms and Theory of Computing, CSCI-360: Artificial Intelligence: Principles and Foundations, CSCI-467: Foundations of Machine Learning (Fall 2026), TAC-216: Applied Python (Fall 2026)

## TECHNICAL SKILLS

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- **Programming Languages**: C++, Python, Java, MATLAB, R
- **Frameworks & Libraries**: PyTorch, Numpy, Matplotlib
- **Tools**: Git, Linux, L<sup>A</sup>T<sub>E</sub>X

## HONORS AND AWARDS

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- **Academic Achievement Award** *Fall 2025, Spring 2026*  
*University of Southern California* 
- **Outstanding Graduate (Scholarship 50,000 RMB)** 2024  
*Beijing Royal School*
- **High Distinction** 2022  
*Australian Science Olympiads Physics* 
- **Outstanding Student (Scholarship 2,000 RMB)** 2022  
*Beijing Royal School*
- **Runner-up** 2022  
*Asian Regional Space Settlement Competition* 
- **Outstanding Student Leader (Scholarship 2,000 RMB)** 2021  
*Beijing Royal School*

## ADDITIONAL INFORMATION

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**Languages**: Mandarin (Native), English (Proficient)