

# David Yan

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## EDUCATION

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### Princeton University

2022 - 2026

*Bachelor of Science in Engineering - Computer Science**Current GPA: 3.933/4.0*

## SKILLS

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**Languages:** Python, Golang, Bash, Java, C/C++, L<sup>A</sup>T<sub>E</sub>X, MATLAB, R**Tools/Libraries:** Blender, Unreal Engine, Pytest, Setuptools, Numpy, Pandas, Docker, OpenCV, Git, UNIX Shell

## PUBLICATIONS

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- Alexander Raistrick\*, Lingjie Mei\*, Karhan Kaan Kayan\*, **David Yan**, Yiming Zuo, Beining Han, Hongyu Wen, Meenal Parakh, Stamatis Alexandropoulos, Lahav Lipson, Zeyu Ma, Jia Deng. Infnigen Indoors: Photorealistic Indoor Scenes using Procedural Generation. *CVPR*, 2024.

## EXPERIENCE

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### Research Assistant - Princeton Vision and Learning Lab

January 2023 - Present

- Developer for the [Infnigen](#) project, a procedural generator of diverse, high-quality training data for computer vision research.
- Created an 3D asset export utility with Blender Python scripting that enables the automatic conversion of generated Infnigen assets into standard file formats

### HackPrinceton Organizer - Operations Team

September 2022 - 2024

- Worked closely with team members to manage admissions, housing, and food for over 200+ hackers from across the nation

### Writer - DailyPrincetonian Data Team

September 2022 - Present

- Performed data analysis on 20 years of Princeton eating club tax data collected from public archives

### Research Assistant - Center for Energy and Environmental Policy

June 2022 - August 2022

- Analyzed building data from Korean provinces to determine correlations between building age, square footage, and building usage type to inform the development of solar power infrastructure in Korean cities

### Research Scholar - Research Science Institute

June 2021 - August 2021

- Investigated the relationship between human visitation and CO<sub>2</sub> levels in Carlsbad Caverns National Park by analyzing CO<sub>2</sub> and foot-traffic database
- Developed error correction algorithms in R to counteract systemic deviations that accumulated over time in monitoring equipment

## HONORS AND AWARDS

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### Shapiro Prize for Academic Excellence

2023

- Awarded to the top 3% of Princeton freshman and sophomore students for academic achievement

### U.S. Presidential Scholar

2022

- One of 161 U.S. high school graduates chosen and honored by the White House

### Research Science Institute (RSI) Scholar

2021

- One of 52 U. S. high school students chosen to attend the 38th RSI hosted by MIT and Center for Excellence in Education

## PAST PUBLICATIONS

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### Co-Inventor of Electrochemically Driven Carbon Dioxide Separator

2020

- U.S. patent Serial No. 63/027,760, 2020; First to reduce the invention to practice
- Provided the only experimental data used to obtain a \$1M research grant from the U.S. Department of Energy
- This patent was licensed for commercialization and has raised \$10M in Series A seed funding