

# David Yan

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## EDUCATION

<b>Princeton University</b>	2022 - 2026
<i>Bachelor of Science in Engineering - Computer Science</i>	<i>Current GPA: 3.971/4.0</i>

## SKILLS

**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

- 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. Infinigen Indoors: Photorealistic Indoor Scenes using Procedural Generation. *CVPR*, 2024.

## EXPERIENCE

<b>Computer Vision Research - Princeton Vision and Learning Lab</b>	January 2023 - Present
<ul style="list-style-type: none"><li>Developer for the <a href="#">Infinigen</a> project, a procedural generator of diverse, high-quality training data for computer vision research.</li><li>Created an 3D asset export utility with Blender Python scripting that enables the automatic conversion of generated Infinigen assets into standard file formats</li></ul>	
<b>Teaching Assistant</b>	Feb 2024 - Present
<ul style="list-style-type: none"><li>COS240 (Discrete Math) - Spring 2024</li></ul>	
<b>HackPrinceton Organizer - Operations Team</b>	September 2022 - 2024
<ul style="list-style-type: none"><li>Worked closely with team members to manage admissions, housing, and food for over 200+ hackers from across the nation</li></ul>	
<b>Writer - DailyPrincetonian Data Team</b>	September 2022 - 2024
<ul style="list-style-type: none"><li>Performed data analysis on 20 years of Princeton eating club tax data collected from public archives</li></ul>	
<b>Research Assistant - Center for Energy and Environmental Policy</b>	June 2022 - August 2022
<ul style="list-style-type: none"><li>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</li></ul>	
<b>Research Scholar - Research Science Institute</b>	June 2021 - August 2021
<ul style="list-style-type: none"><li>Investigated the relationship between human visitation and CO2 levels in Carlsbad Caverns National Park by analyzing CO2 and foot-traffic database</li><li>Developed error correction algorithms in R to counteract systemic deviations that accumulated over time in monitoring equipment</li></ul>	

## HONORS AND AWARDS

<b>Shapiro Prize for Academic Excellence</b>	2023
<ul style="list-style-type: none"><li>Awarded to the top 3% of Princeton freshman and sophomore students for academic achievement</li></ul>	
<b>U.S. Presidential Scholar</b>	2022
<ul style="list-style-type: none"><li>One of 161 U.S. high school graduates chosen and honored by the White House</li></ul>	
<b>Research Science Institute (RSI) Scholar</b>	2021
<ul style="list-style-type: none"><li>One of 52 U. S. high school students chosen to attend the 38th RSI hosted by MIT and Center for Excellence in Education</li></ul>	

## PAST PUBLICATIONS

<b>Co-Inventor of Electrochemically Driven Carbon Dioxide Separator</b>	2020
<ul style="list-style-type: none"><li>U.S. patent Serial No. 63/027,760, 2020; First to reduce the invention to practice</li><li>Provided the only experimental data used to obtain a \$1M research grant from the U.S. Department of Energy</li><li>This patent was licensed for commercialization and has raised \$10M in Series A seed funding</li></ul>	