

# JhihYang Wu

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## Education

<b>University of Arizona</b>   Tucson, AZ	August 2025 - May 2026
Master of Science in Electrical and Computer Engineering	GPA: 4.00/4.00
<b>University of Arizona</b>   Tucson, AZ	August 2021 - May 2025
Bachelor of Science in Computer Science & Electrical and Computer Engineering	GPA: 4.00/4.00

## Skills

**Areas:** Deep Learning, Computer Graphics, 2D/3D Computer Vision, LLMs, Reinforcement Learning, Image Processing, Algorithms, Compilers, Computer Architecture, OS, Networking, Databases, Data Science  
**Programming Languages:** Python, C++, C, Java, C#, HTML, CSS, JavaScript, MIPS Assembly, Verilog, Oracle SQL, GLSL, MATLAB, CUDA  
**Tools and Frameworks:** PyTorch, Vivado, Django, Keras, Unity, NumPy, Matplotlib, OpenCV, OpenGL

## Experience

<b>Research Assistant</b>	August 2025 - Present
- Conducting research on 3D scene generation, signal and image processing, tomography, 3D Reconstruction, and applications in SAR, Sonar, and IR	
- In process of writing papers related to 3D scene completion and physics-aware diffusion models	
<b>xAI - Software Engineering Specialist</b>	January 2025 - August 2025
- Improved Grok's coding capabilities by designing and curating high-quality learning environments	
- Found and patched Grok's pitfalls in coding	
- Developed software that made Grok Thinking and Grok Code possible	
<b>ASML - Senior Design [Pictures]</b>	September 2024 - May 2025
- Developed from scratch an optics simulation software for our Shack–Hartmann wavefront sensor setup using C++ and OpenGL	
<b>Undergraduate Research Assistant</b>	February 2024 - January 2025
- Conducted research on NeRFs, Diffusion Models, 3D Reconstruction, 3D Gaussian Splatting	
- Replicated and extended the GeNVS paper for SAR, Sonar, and IR applications	

## Publications

- A. Berian, D. Brignac, J. Wu, N. Daba, A. Mahalanobis, “CrossModalityDiffusion: Multi-Modal Novel View Synthesis with Unified Intermediate Representation”, GeoCV Workshop, WACV 2025  
A. Berian, J. Wu, D. Brignac, N. Daba, A. Mahalanobis, “ViewAttention: Pay Attention to Where You Look”, Workshop of Generative AI for World Simulations and Communications, ICIP 2025

## Projects

<b>KewlAI</b> [ <a href="#">GitHub</a> ]	June 2024 - Present
- Reimplementation of cool deep learning algorithms such as Animate Anyone, DQL, Llama 2, NeRF, etc	
<b>miniRT</b> [ <a href="#">GitHub</a> ]	May 2024 - May 2024
- Powerful ray tracer I built from scratch using just C++ and math	
<b>minigrad</b> [ <a href="#">GitHub</a> ]	June 2023 - July 2023
- PyTorch clone from scratch using just Python and NumPy	