

SANGMIN JUNG
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sangminjung.com

INTERESTS	Generative Models, Vision Language Action, Affordances, Video Generation, World Models	
EDUCATION	Arizona State University <i>Ph.D., Computer Science</i> (GPA 4.0/4.0) Advisors: Professor Pavan Turaga, Professor Yezhou Yang Relevant Coursework: Machine Vision and Pattern Recognition, Statistical Machine Learning, Knowledge Representation and Reasoning, Natural Language Processing, Data Mining	Aug 2023 -
	Kyungpook National University <i>B.S., Mobile Engineering</i> (GPA 3.85/4.3) Relevant Coursework: C, JAVA Programming, Probability and Random Processes, Data Structures, Algorithms, Software Design, Operating Systems, Computer Graphics, Parallel Programming	Mar 2013 - Feb 2019
PROFESSIONAL EXPERIENCE	Amazon Prime Video <i>Research Intern</i> <ul style="list-style-type: none">• Leading research project on video generation integrating methodologies for compositing of multiple plates with camera control.• Developing video generation and harmonization model tailored towards VFX production pipeline. Bosch Research <i>Research Intern</i> <ul style="list-style-type: none">• Working as a Foundation Models based research intern position, leading a project on video generation model to improve intelligent autonomous driving.• Integrating RL-based methods for closed-loop simulation of autonomous driving and conducting research on using video models as a proxy for world models. Samsung Electronics, Mobile Division <i>Software Engineer</i> <ul style="list-style-type: none">• Conceptualized, designed, and implemented a new automatic call issue detecting solution using Mel-frequency cepstral analysis and ML-based human perception estimation models• Deployed the solution to Samsung's global posts including Vietnam and Brazil and reduced the cost of using 3rd-party proprietary voice quality tools to 50%• Participated in projects such as Samsung Devices Over-the-Air configuration web server and autonomous GPS handling system.	June 2026 - Current Sunnyvale, CA Sep 2025 - Mar 2026 Sunnyvale (Remote), CA Mar 2018 - June 2023 Gumi, Korea
PUBLICATION	<p>[1] Maitreya Patel*, Sangmin Jung*, Chitta Baral, and Yezhou Yang. λ-ECLIPSE: Multi-Concept Personalized Text-to-Image Diffusion Models by Leveraging CLIP Latent Space. <i>Transactions on Machine Learning and Research</i> (TMLR) 2024</p> <p>[2] Sangmin Jung, Utkarsh Nath, Yezhou Yang, Giulia Pedrielli, Joydeep Biswas, Amy Zhang, Hassan Ghasemzadeh, Pavan Turaga. Guiding Diffusion with Deep Geometric Moments: Balancing Fidelity and Variation. <i>IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshop on Generative Models for Computer Vision</i> 2025</p>	

[3] **Sangmin Jung**, Anirudh Rayas, Reza Rahimi Azghan, Hassan Ghasemzadeh, Yezhou Yang, Pavan Turaga Improving Shape Bias in Learnable Geometric Moment Representations *IEEE/CVF Winter Conference on Applications of Computer Vision LENS 2026*

[4] **Under Review** Spatial World Model: Spatially Structured Latent Dynamics and Planning

[5] **Under Review** WarpStudio:Generative Video Compositing with Camera Motion Warping

AWARDS AND HONORS

- ASU Graduate College Travel Award 2025 (\$250)
- GSG Graduate Support Award 2025 (\$300)
- NSF Expand AI Award 2402650 2024 - Present
- Samsung-KNU Undergraduate Fellowship
(Full tuition scholarship awarded for academic years 2013, 2014, 2017, and 2018)

TEACHING EXPERIENCE

Teaching Assistant — CSE360: Intro to Software Engineering Fall 2023, Spring 2024
- Supported instruction for 300+ students across two semesters; coordinated with graders and UG-TAs with Prof. Lynn Robert Carter.

Teaching Assistant — Advanced Software Programming Sep 2017 – Dec 2017
- Led sessions on C/C++, data structures, and algorithms; mentored 7 students with biweekly meetings, assignment design, and Q&A support.

Student Mentor — Artificial Intelligence Dec 2017
- Delivered lecture on image processing using Deep Learning for graduate students; led hands-on AI tutorials for undergraduates using TensorFlow.

SERVICES

Conference Reviewer

- NeurIPS, ICML, CVPR, ECCV, WACV

SKILLS

Programming Languages	C, C++, C#, Java, Python
Machine Learning	Jupyter, NumPy, Pandas, PyTorch, Scikit-learn, TensorFlow
Others	Android, AWS, Bash, Docker, Git, LaTeX
Foreign Languages	English, Korean (Fluent), Spanish (Novice)