

SANGMIN JUNG

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apexmin.github.io

- INTERESTS Generative Models, Vision Language Action, Affordances, Video Generation, World Models
- EDUCATION **Arizona State University** Aug 2023 -
Ph.D., Computer Science (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
- Kyungpook National University** Mar 2013 - Feb 2019
B.S., Mobile Engineering (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
- PROFESSIONAL **Bosch Research** Sep 2025 -
EXPERIENCE *Research Intern* Sunnyvale (Remote), CA
- 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** Mar 2018 - June 2023
Software Engineer Gumi, Korea
- 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.
- PUBLICATION [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. *Transactions on Machine Learning and Research* (TMLR) 2024
- [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. *IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshop on Generative Models for Computer Vision 2025*
- [3] **Sangmin Jung**, Anirudh Rayas, Reza Rahimi Azghan, Hassan Ghasemzadeh, Yezhou Yang, Pavan Turaga Improving Shape Bias in Learnable Geometric Moment Representations *EEE/CVF Winter Conference on Applications of Computer Vision LENS Workshop 2026*
- [4] **In Progress** Latent Memory Modeling for Interactive Video Generation.

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)