Sangmin Jung

sgmin.jung@asu.edu +1-623-265-4204

apexmin.github.io

INTERESTS

Generative Models, Vision and Language, Affordance and Action, Interactive Generative Video

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

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 3rd Workshop on Generative Models for Computer Vision* (GMCV) 2025

HONORS

- ASU Graduate College Travel Award 2025 ($250)
- GSG Graduate Support Award 2025 ($300)
- Samsung–KNU Undergraduate Fellowship
  (Full tuition scholarship awarded for academic years 2013, 2014, 2017, and 2018)

PROFESSIONAL EXPERIENCE

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.

Defense Security Command, Korea Army — Feb 2015 - Nov 2016
Army Linguist — Gwacheon, Korea

- Specialized as English Interpreter and military intelligence operator, being deployed to Operation Ulchi Freedom Guardian in 2015, and 2016, the world's largest computerized command to fight against North Korean threats.

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 • WACV 2025, ICCV 2025
SKILLS	**Programming Languages** C, C++, C#, Java, Python **Machine Learning** Juypter, NumPy, Pandas, PyTorch, Scikit-learn, TensorFlow **Others** Android, AWS, Bash, Docker, Git, LaTeX **Foreign Languages** English, Korean (Fluent), Spanish (Novice)