Inbum (Aaron) Park

ibpark@umich.edu • inbumpark.github.io

EDUCATION

University of Michigan — **Ann Arbor, MI**
Master of Science in Electrical and Computer Engineering — *May 2025*
Specialization: Computer Vision, GPA: 4.00 / 4.00

Seoul National University — **Seoul, South Korea**
Bachelor of Science in Electrical and Computer Engineering, Cum Laude — *March 2017 – August 2023*

PUBLICATIONS

1. *Factorized Diffusion: Perceptual Illusions by Noise Decomposition* — **ECCV 2024**
Daniel Geng*, **Inbum Park***, Andrew Owens. (*: denotes equal contribution)

2. Visual Anagrams: Generating Multi-View Optical Illusions with Diffusion Models (**Oral**) — **CVPR 2024**
Daniel Geng, **Inbum Park**, Andrew Owens.

3. On the Robustness of Normalizing Flows for Inverse Problems in Imaging — **ICCV 2023**
Seongmin Hong, **Inbum Park**, Se Young Chun.

4. Text2PointCloud: Text-Driven Stylization for Sparse PointCloud — **Eurographics (Short Papers) 2023**
Inwoo Hwang, Hyeonwoo Kim, Donggeun Lim, **Inbum Park**, Youngmin Kim.

5. Probabilistic Implicit Scene Completion (**Spotlight**) — **ICLR 2022**
Dongsu Zhang, Changwoon Choi, **Inbum Park**, Youngmin Kim.

RESEARCH EXPERIENCE

University of Michigan (U-M) — **Ann Arbor, MI**
Research Intern, advised by Prof. Andrew Owens — *September 2023 – Present*
- Leveraged off-the-shelf diffusion models to generate multi-view optical illusions and perceptual illusions, and designed the CVPR 2024 T-shirt using a method for generating hybrid images from real images.

Seoul National University (SNU) — **Seoul, South Korea**
Research Intern at Intelligent Motion Lab, advised by Prof. Jungdam Won — *January 2023 – May 2023*
- Programmed kinematics and learned motion matching to better understand the technical components of computer graphics and animation, and applied a recent 3D pose reconstruction model to a patient video to perform gait analysis.

Research Intern at Intelligent Computational imaging Lab, advised by Prof. Se Young Chun — *July 2022 – December 2022*
- Studied the phenomenon and causes of erroneous images occasionally generated from conditional normalizing flows through experiments on inverse problems in imaging (e.g. super resolution and low light image enhancement).

Research Intern at 3D Vision Lab, advised by Prof. Young Min Kim — *February 2021 – September 2021*
- Conducted experiments on a probabilistic approach to shape completion and scene reconstruction using 3D implicit representations (e.g. occupancy fields, unsigned/signed distance functions).

WORK EXPERIENCE

U-M Center for Academic Innovation — **Ann Arbor, MI**
AI Application Fellowship — *June 2024 – August 2024*
- Built upon foundational models to develop a multi-modal video classifier solution for evaluating large volumes of course content and generating video tags/production classifications.

Samsung Electronics — **Seoul, South Korea**
Research Intern at Video Display Department — *July 2021 – August 2021*
- Utilized photorealistic style transfer named WCT2 to recreate experiences of the abnormalities in constantly changing TV screens, including blurry, shaky, glitchy, and pixelated effects.

Republic of Korea Army — **Seoul, South Korea**
Social Service Agent at Seocho Police Station — *January 2019 – November 2020*
- Fulfilled military service as a South Korean citizen, led traffic safety campaigns, and patrolled around police stations.

SKILLS

Programming Skills: Python, C, C++, Matlab, JavaScript, HTML/CSS
Visualization Tools: Blender, CloudCompare, MeshLab, Mitsuba Renderer, Jupyter Notebook, Git
Languages: Fluent - English, Korean / Conversational - Italian, Chinese (Mandarin), French