

# Inbum (Aaron) Park

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## Education

### University of Michigan

Ann Arbor, MI

Master of Science in Electrical and Computer Engineering, Computer Vision

Aug. 2023 – Present

### Seoul National University (SNU)

Seoul, South Korea

Bachelor of Science in Electrical and Computer Engineering

Mar. 2017 – Aug. 2023

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## Publications

### *Factorized Diffusion: Perceptual Illusions by Noise Decomposition*

Daniel Geng\*, **Inbum Park**\*, Andrew Owens.

European Conference on Computer Vision (ECCV) 2024.

### *Visual Anagrams: Generating Multi-View Optical Illusions with Diffusion Models*

Daniel Geng, **Inbum Park**, Andrew Owens.

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2024, **Oral**.

### *On the Robustness of Normalizing Flows for Inverse Problems in Imaging*

Seongmin Hong, **Inbum Park**, Se Young Chun.

International Conference on Computer Vision (ICCV) 2023.

### *Text2PointCloud: Text-Driven Stylization for Sparse PointCloud*

Inwoo Hwang, Hyeonwoo Kim, Donggeun Lim, **Inbum Park**, Youngmin Kim.

Eurographics (Short Papers) 2023.

### *Probabilistic Implicit Scene Completion*

Dongsu Zhang, Changwoon Choi, **Inbum Park**, Youngmin Kim.

International Conference on Learning Representations (ICLR) 2022, **Spotlight**.

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## Experiences

### University of Michigan

Ann Arbor, MI

Research Intern, advised by Prof. Andrew Owens

Sep. 2023 – Present

- Methodically analyzed optical illusions generated by off-the-shelf diffusion models.
- Published the paper “Visual Anagrams: Generating Multi-View Optical Illusions with Diffusion Models” to CVPR 2024 as a second author, which was selected to present an oral talk.
- Designed the [CVPR 2024 T-shirt](#) using a [method](#) that generates hybrid images from real images.

**Seoul National University (SNU)**

Seoul, South Korea

*Research Intern at Intelligent Motion Lab, advised by Prof. Jungdam Won**Jan. 2023 – May. 2023*

- Programmed kinematics, handling mocap data, and learned motion matching to better understand the technical components of computer graphics and animation.
- Applied a recent 3D pose reconstruction model to a video of a patient to perform gait analysis.

*Research Intern at Intelligent Computational imaging Lab, advised by Prof. Se Young Chun**Fall 2022*

- Investigated the phenomenon of erroneous images occasionally generated from flow-based models and explained the causes through experiments on inverse problems in imaging.
- Published the paper “On the Robustness of Normalizing Flows for Inverse Problems in Imaging” to *ICCV 2023* as a second author.

*Research Intern at 3D Vision Lab, advised by Prof. Young Min Kim**Feb. 2021 – Sep. 2021*

- Conducted experiments on a probabilistic approach to shape completion and scene reconstruction using 3D implicit representations.
- Published the paper “Probabilistic Implicit Scene Completion” to *ICLR 2022* as a third author and received a spotlight session.

**Samsung Electronics**

Seoul, South Korea

*Research Intern at Video Display Department**Jul. 2021 – Aug. 2021*

- Utilized photorealistic style transfer (WCT2) to recreate experiences of the abnormalities in constantly changing TV screens, including blurry, shaky, glitchy, and pixelated effects.

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**Extracurriculars****University of Michigan**

Ann Arbor, MI

*Grader of EECS 442: Computer Vision**Sep. 2023 – Dec. 2023***Seoul National University (SNU)**

Seoul, South Korea

*SNU Choreography Dance Club HONDDONI**Mar. 2017 – Aug. 2023*

- As an executive in 2018, led a crew of 40 people for a self-organized show held in campus.

*SNU Tomorrow's Edge Membership**Sep. 2021 – Feb. 2023*

- As an executive in 2022, led mentoring projects for high school students and university freshmen and sophomores on topics related to engineering.

*Introduction to Data Structures Tutor**Sep. 2022 – Dec. 2022*

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**Skills****Programming Skills:** Python, C/C++, Matlab, JavaScript, HTML/CSS**Languages:** Fluent - English, Korean, Conversational - Chinese (Mandarin), French, Italian

GRE General Test: Verbal 164, Quant 170, Writing 5.0 / TOEFL IBT: 110 / HSK 4-级 achieved

**Developer Tools:** CloudCompare, MeshLab, Mitsuba Renderer, Jupyter Notebook, Git, VS Code