

# Inbum Park

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## Research Interests

Computer Vision, Computational Imaging, Computer Graphics

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## Education

University of Michigan

Ann Arbor, MI

Master of Science in Electrical and Computer Engineering

Aug. 2023 – Present

- Specialization: Computer Vision

Seoul National University (SNU)

Seoul, South Korea

Bachelor of Science in Electrical and Computer Engineering

Mar. 2017 – Aug. 2023

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## Publications

*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

- Leveraging generative models to generate images of diverse topics of interest.

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, such as super resolution and low light image enhancement.
- Published the paper "On the Robustness of Normalizing Flows for Inverse Problems in Imaging" to the *International Conference on Computer Vision* as a second author.

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

*Feb. 2021 – Sep. 2021*

- Conducted experiment on a probabilistic approach to shape completion and scene reconstruction using 3D implicit representations.
- Published the paper "Probabilistic Implicit Scene Completion" to the *International Conference on Learning Representations* 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 named WCT2 to recreate experiences of the abnormalities in constantly changing TV screens, including blurry, shaky, glitchy, and pixelated effects.
- Devised a sign language translating smart watch for people with hearing disabilities to reduce the burden of communication among the crowd.

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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 member 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 member in 2022, led a mentoring project for high school students and university freshmen and sophomores on topics related to engineering.

*Introduction to Data Structures Tutor*

*Sep. 2022 – Dec. 2022*

*SNU Tennis Club Impact*

*Mar. 2022 – Dec. 2022*

*SNU Rocket Club HANARO*

*Sep. 2018 – Jul. 2019*

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## Skills

**Programming Skills:** Python, C/C++, Matlab, JavaScript, HTML/CSS

**Languages:** Fluent - English, Korean, Conversational - Italian, French

GRE General Test; Verbal 164 / Quant 170 / Writing 5.0

TOEFL IBT; Reading 29 / Listening 28 / Writing 27 / Speaking 26

HSK 4-级 achieved

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