## CHANGWOON CHOI

#### **Curriculum Vitae**

Ph.D. Candidate changwoon.choi00@gmail.com

Seoul National University http://3d.snu.ac.kr/

Room 916, Building 301, 1 Gwanak-ro http://github.com/changwoonchoi

#### **Education**

Seoul Science High School Jongro-gu, Seoul - 2011 - 2013

Seoul National University Gwanak-gu, Seoul Electrical & B.S., summa cum laude,

Computer Engineering (GPA: 4.09 / 4.3)

2014 - 2020

Seoul National University Gwanak-gu, Seoul ECE M.S., 2020 - 2022 Seoul National University Gwanak-gu, Seoul ECE Ph.D., 2022 - Present

#### **Publications**

1. Junho Kim, Hojun Jang, Changwoon Choi, and Young Min Kim, CPO: Change Robust Panorama to Point Cloud Localization, in European Conference on Computer Vision (2022).

- 2. Dongsu Zhang, Changwoon Choi, Inbum Park, and Young Min Kim, Probabilistic Implicit Scene Completion, in *International Conference on Learning Representations* (2022, *Spotlight*).
- 3. Junho Kim, Changwoon Choi, Hojun Jang, and Young Min Kim, PICCOLO: Point Cloud-Centric Omnidirectional Localization, in *International Conference on Computer Vision* (2021).
- 4. Dongsu Zhang, Changwoon Choi, Jeonghwan Kim, and Young Min Kim, Learning to Generate 3D Shapes with Generative Cellular Automata, in *International Conference on Learning Representations* (2021).

## **Ongoing Projects**

- · IBL-NeRF: Image-Based Lighting Formulation of Neural Radiance Fields with Prefiltered Radiance Fields (Submitted)
- · Implicit Neural Representation Reconstruction for Real-world Indoor Scene
- · Spherical Binoctree Structure for Reconstructing Neural Radiance Fields with 360 Camera

## **Honors and Awards**

Funding for gifted students (science), Woongjin Foundation

Merit-based Scholarship (Seoul National University, Full-Funding)

Samsung Humantech Paper Award 2021, Honorable Mention (\$2,000)

2011 - 2012

2015 - 2020

2021

### **Invited Talks**

"Towards Robust Indoor Visual Localization with Omnidirectional Camera" @42dot (2022.05.)

#### **Academic Activities**

Conference Reviewer: ECCV 2022, 3DV 2022 Student Volunteer: SIGGRAPHASIA 2022

# **Teaching Experience**

Basic Calculus 1 (Tutor)

Basic Calculus 2 (Tutor)

Basic Physics 1 (Tutor)

Basic Physics 2 (Tutor)

Programming Methodology (Tutor)

Engineering Mathematics 2 (Tutor)

Signals and Systems (Tutor)

Theory and Lab of IoT, AI, and Big Data (T.A.)

Signals and Systems (T.A.)

3D Computer Vision Track for AI Experts (Samsung) (T.A.)

Introduction to Random Variables and Processes (T.A.)

2015, 2016, 2018, 2020 spring

2018 fall

2015, 2016, 2019 spring

2015, 2019 fall

2019 fall

2019 fall, 2021 spring

2020 spring

2019 fall, 2020 spring

2021 spring

2021, 2022 summer

2022 spring