

Junseo Koo

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RESEARCH INTEREST

Computer Vision, Deep Learning

- Neural Render (NeRF)
- Localization

EDUCATION

Seoul National University, Seoul, Korea (Sep. 2021 - Current)

- Integrated M.S./Ph.D. in Computer Science and Engineering
- GPA: 4.3/4.3

Seoul National University, Seoul, Korea (Mar. 2018 - Aug. 2021)

- Bachelor of Science in Computer Science and Engineering
- Early Graduation, Cum Laude
- GPA: Overall 3.85/4.3, Major 3.94/4.3
- Thesis: LConv: Linearly-Weighted Convolution (Advisor: Prof. Gunhee Kim)

Seoul Science High School, Seoul, Korea (Mar. 2015 - Feb. 2018)

- High school for gifted students in mathematics and science
- Thesis: TSP-like Algorithm Based on Genetic Algorithm (Advisor: Jongcheol Sung)

PUBLICATIONS

1. EP2P-Loc: End-to-End 3D Point to 2D Pixel Localization for Large Scale Visual Localization

Minjung Kim, Junseo Koo and Gunhee Kim

ICCV 2023 PDF Code

RESEARCH EXPERIENCE (Selected)

Samsung Electronics DS (Device Solutions) Division

(Jun. 2023 – May 2024)

- Researcher (Supervisor: Prof. Gunhee Kim)
- Project: Generative Imputation for Semiconductor Wafer Map Data

Samsung Electronics DX (Device eXperience) Division MX (Mobile eXperience) Business Sector

(Dec. 2022 –)

- Researcher (Supervisor: Prof. Gunhee Kim)
- Project: Novel View and Light Conditional Image Synthesis SW Development

SK Telecom

(Jul. 2022 – Dec. 2022)

- Researcher (Supervisor: Prof. Gunhee Kim)
- Project: 3D Object Creation and Animation

Vision & Learning Laboratory

(Sep. 2021 – Current)

Department of Computer Science and Engineering, Seoul National University

- Graduate Research Assistant (Supervisor: Prof. Gunhee Kim)
- Topic: Computer Vision (Object Detection, etc.), Deep Learning

GS SHOP

(May 2021 – Dec. 2021)

- Researcher (Supervisor: Prof. Gunhee Kim)
- Project: GS SHOP Fashion Image Tagging

Vision & Learning Laboratory

(Dec. 2020 – Aug. 2021)

Department of Computer Science and Engineering, Seoul National University

- Undergraduate Researcher (Supervisor: Prof. Gunhee Kim)
- Topic: Computer Vision (Point Cloud Based Place Recognition), Deep Learning

Thunder Research Group

(Jul. 2020 – Aug. 2020)

Department of Computer Science and Engineering, Seoul National University

- Undergraduate Researcher (Supervisor: Prof. Jaejin Lee)
- Topic: Deep Learning

Computer Theory and Application Laboratory

(Jan. 2020 – Jun. 2020)

Department of Computer Science and Engineering, Seoul National University

- Undergraduate Researcher (Supervisor: Prof. Kunsoo Park)
- Topic: Computer Theory (NP-Hard)

TEACHING EXPERIENCE (Selected)

Teaching Assistant and Guest Lecturer

- **LG Electronics 5th Advanced Big Data Expert Course**, Jan. 2024 – Feb. 2024.
(Instructor: Prof. Gunhee Kim)
- **Samsung Electronics AI Expert Course**, Jul. 2023.
(Instructor: Prof. Gunhee Kim)
- **SNU-KDB (Seoul National University-Korea Development Bank)**

Non-degree Courses in AI Specialized Institutions (Training Courses),

Apr. 2023.

(Instructor: Prof. Gunhee Kim)

- **M1522.001300, M3309.002400 Probabilistic Graphical Models**

at Seoul National University, Spring 2023.

(Instructor: Prof. Gunhee Kim)

(Outstanding Major Lecture Assistant Award)

- **LG Electronics 4th Advanced Big Data Expert Course**, Feb. 2023.

(Instructor: Prof. Gunhee Kim)

- **Samsung Electronics AI Expert Course**, Aug. 2022 – Sep. 2022.

(Instructor: Prof. Gunhee Kim)

- **SNU-KDB (Seoul National University-Korea Development Bank)**

Non-degree Courses in AI Specialized Institutions (Training Courses),

Apr. 2022 – May 2022.

(Instructor: Prof. Gunhee Kim)

- **M2177.004900 Introduction to IoT, Artificial Intelligence, Big Data and Practice**

at Seoul National University, Spring 2022.

(Instructor: Prof. Byung-Gon Chun)

- **LG Electronics Deep Learning Course**, Jan. 2022 – Feb. 2022.

(Instructor: Prof. Gunhee Kim)

- **M1522.001000 Computer Vision** at Seoul National University, Fall 2021.

(Instructor: Prof. Gunhee Kim)

- **Samsung Electronics AI Expert Course**, Aug. 2021 – Sep. 2021.

(Instructor: Prof. Gunhee Kim)

MISCELLANEOUS EXPERIENCE

- **Samsung Electronics Software Membership**, 2019 – Current.

HONORS AND AWARDS

Awards

- **Outstanding Major Lecture Assistant Award**

(Jan. 2024)

Seoul National University

(M1522.001300, M3309.002400 Probabilistic Graphical Models

at Seoul National University, Spring 2023.

(Instructor: Prof. Gunhee Kim)

Scholarships

- **Presidential Science Scholarship** (Mar. 2018 - Aug. 2021)

Full-tuition and living expenses during undergraduate years funded by Korea Student Aid Foundation (KOSAF)

Programming Contests (Selected)

- **130th Place**, Google Code Jam Round 3 (Semifinal Round) (Jun. 2021)

- **19th Place**, Google Code Jam Round 1B (Apr. 2021)

- **Silver Prize** (Minister's Prize), ACM-ICPC Asia Seoul Regional Contest (Nov. 2020)

- **81st Place**, Facebook Hacker Cup Round 3 (Semifinal Round) (Sep. 2020)

- **7th Place**, Google Kick Start Round E (Aug. 2020)

- **3rd Prize**, Samsung Collegiate Programming Cup 2019 (Jul. 2019)

- **Silver Prize** (Minister's Prize), ACM-ICPC Asia Seoul Regional Contest (Nov. 2018)

- **1st Place**, Midas Challenge (May 2018)

- **Gold Prize** (Minister's Prize), Korea Olympiad in Informatics (KOI) (Nov. 2017)

- **3rd Prize**, Innopolis University Open Olympiad in Informatics 2017 (World Finals)

(Feb. 2017)

- **Silver Medal**, Asia-Pacific Informatics Olympiad 2016 (APIO) (May 2016)

TECHNICAL SKILLS

Programming Languages

Python, C/C++, Java

ML/DL Frameworks

PyTorch, TensorFlow

