

# Junseo Koo

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## RESEARCH INTERESTS

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Computer Vision, Deep Learning

- Neural Render (NeRF)
- Generative Model
- Localization

## EDUCATION

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**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)

## RESEARCH EXPERIENCES

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**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 EXPERIENCES**

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**Teaching Assistant and Guest Lecturer**

- Korea Development Bank-Seoul National University

Artificial Intelligence Non-degree Course, 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 Professional Course**, Aug. 2021 – Sep. 2021.

(Instructor: Prof. Gunhee Kim)

## HONORS AND AWARDS

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### Scholarships

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

Funded full-tuition scholarship with stipend during undergraduate years 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)
- **81th 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

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### Programming Languages

Python, C/C++, Java

### ML/DL Frameworks

PyTorch, TensorFlow