

# WONSEO CHOI

Seoul, Republic of Korea

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Wonseo-C.github.io



## EDUCATION

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### **Hanyang University**

M.S. in Electronic Engineering

Overall GPA: 4.44 / 4.5

*Mar 2022 - Feb 2024*

B.S. in Electric Engineering (Minor in Electronic Engineering)

Overall GPA: 4.08 / 4.5 (Major GPA: 4.18 / 4.5)

*Mar 2017 - Feb 2022*

## EXPERIENCE

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### **LG Display**

*Big Data Engineer*

Mar 2024 - Current

*Paju, Gyeonggi-do*

- Improve yield through big data analyzing.

### **UN Lab, Hanyang Univ.**

*Master Student*

Jun 2023 - Jul 2024

*Advisor: Jae-Il Jung*

- Apple Watch APP for Integrating UWB Technology and advanced medical data monitoring
- Localizing System Design for IMU Tag
- TA for Probability & Statistics, Computer Network

### **HYU IoT Lab, Hanyang Univ.**

*Master Student*

Dec 2021 - Aug 2023

*Advisor: Hokeun Kim*

- Modeling/Simulation of Cyber-Physical Systems, AI for Network/Embedded Systems
- IMU Sensor Fusion for Location Tracking using Kalman Filter (MCU Board)
- Path-loss Prediction using Deep Neural Network
- WiFi AP Localization using Convolutional Neural Network
- Mutation support for Lingua Franca with implementing Savina Benchmark

- Android App for Handwriting Number Recognition using Google ML Kit

### **Catholic Univ. of Korea Yeouido ST.Mary's Hospital**

*Intern*

Aug 2020 - Feb 2021

*Seoul, Korea*

- Developed an automated system to extract test results from image-based result sheets using Big Data Processing techniques for AI applications
- Conducted experiments and implemented a research paper focusing on domain adaptation through the application of Generative Adversarial Networks (GANs)

### **KIST Europe**

*Intern*

Feb 2020 - Jul 2020

*Saarbrücken, Germany*

- Developed an automated system to acquire experimental data, enabling the calculation of heart rate by analyzing variations in the size of heart images across different frames
- Improved cell tracking performance by focusing on the enhancement of the U-Net layer, analyzing and optimizing the Localization component responsible for accurate cell tracking

### **SPA Lab, Hanyang Univ.**

*Intern*

Mar 2019 - Feb 2020

- Deep Learning Object Detection - Self driving Car

## **TECHNICAL STRENGTHS**

### **Computer Languages**

Python(with PyTorch, Tensorflow, Keras), MATLAB, Assembly  
Java, C++, TypeScript

### **Developing Environments**

Mac, Windows, Linux (Ubuntu Server)

## **PAPER**

1. **W. Choi** et al., "Enhanced Wi-Fi Access Point Positioning Using Hexagonal CNN With Mobile Data and Urban Information," in IEEE Internet of Things Journal, doi: 10.1109/JIOT.2024.3431918.
2. Sung, S., **Choi, W.**, Kim, H., & Jung, J. I. (2023). Deep Learning-Based Path Loss Prediction for Fifth-Generation New Radio Vehicle Communications. IEEE Access.
3. Kim, T. M., **Choi, W.**, Choi, I. Y., Park, S. J., Yoon, K. H., & Chang, D. J. (2021). Semi-AI and Full-AI digitizer: the ways to digitalize visual field big data. Computer Methods and Programs in Biomedicine, 207, 106168.
4. Suh, S., Cheon, S., **Choi, W.**, Chung, Y. W., Cho, W. K., Paik, J. S., ... , & Lee, Y. O. (2022). Supervised segmentation with domain adaptation for small sampled orbital CT images. Journal of Computational Design and Engineering, 9(2), 783-792.

## **CONFERENCE**

**Wonseo Choi**, Yongoh Lee, "Attention-aware Unit toward the interpretability of single cell segmentation", KCCV 2020, Republic of Korea (Online) - demo video

## **AWARDS**

1. Academic Excellence Award in the Hanyang Univ. graduation ceremony *Feb 2022*
2. Encouragement Award in the "HY-Running Pace Maker" Program *Jan 2022*

## **OTHER ACTIVITIES**

겨자씨 키움센터

Feb 2021 - Aug 2021

*Founding Activities*

- Obligatory recording paper Digitization Artificial intelligence learning model (module) development

**Visiting U.C. Berkeley**

Jun 2022 - Jul 2022 , Feb 2023

- Design and develop the implementation of LF mutations

## TEACHING ASSISTANT

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**Probability & Statistics**

Sep 2023-Dec 2023

- Generating Random Variables based on Probability distributions using MATLAB

**Computer Network**

Sep 2023-Dec 2023

- Basic Algorithm for Computer Network using MATLAB