

WONSEO CHOI

Seoul, Republic of Korea

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<https://wonseo-c.github.io/>



EDUCATION

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

LG Display

Big Data Engineer

Mar 2024 - Current

Paju, Gyeonggi-do

- Improve yield through big data analyzing.

UN Lab, Hanyang Univ.

Master Student

Aug 2023 - Mar 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 - Jul 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, vol. 11, no. 20, pp. 33820-33832, 15 Oct.15, 2024.
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.

ONLINE-DEMO

Wonseo Choi, Yongoh Lee, "Attention-aware U-Net 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
Founding Activities

Feb 2021 - Aug 2021

- 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

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