

# YESUNG HWANG

yesung.hw@gmail.com  
yesung31.github.io

EDUCATION	<b>Eindhoven University of Technology</b> <i>M.Sc. in Artificial Intelligence and Engineering Systems</i> <ul style="list-style-type: none"><li>• Current Grade: 9.23/10.0 (Dutch Grading System)</li></ul> <b>Yonsei University</b> <i>B.Sc. in Electrical and Electronic Engineering, Minor in Physics</i> <ul style="list-style-type: none"><li>• Thesis: <i>Accelerated mGRE Image Reconstruction for MWI via Deep Learning</i></li><li>• Advisor: Prof. Dong-hyun Kim</li><li>• Final Grade: 98.1/100</li></ul>	Eindhoven, Netherlands 2024.09 – Present  Seoul, South Korea 2015.03 – 2023.08
EXPERIENCE	<b>KAIST (Visual AI Lab)</b> <i>Undergraduate internship, advised by Prof. Minhyuk Sung.</i> <ul style="list-style-type: none"><li>• <b>Hyperbolic Embedding Space for Language-driven Shape Manipulation:</b> Derived the projection of text to shape region in hyperbolic CLIP embedding space to reduce training time.</li><li>• <b>Differentiable Discrete Poisson Solver:</b> Devised fast differentiable Poisson equation solver, enabling deep learning integration.</li></ul> <b>Kakao Mobility</b> <i>Research Intern</i> <ul style="list-style-type: none"><li>• Developed real-time continuous-time SLAM using bounded surface features for large-scale indoor mapping.</li><li>• Implemented multi-LiDAR movement distortion correction using IMU and LiDAR–LiDAR calibration.</li></ul> <b>Stryx</b> <i>Research Intern</i> <ul style="list-style-type: none"><li>• Developed pointcloud registration algorithms for city-scale HD mapping.</li><li>• Designed GPS noise detection and reduction methods for precise localization.</li><li>• Improved SLAM feature extraction for indoor–outdoor map integration.</li><li>• Worked on LiDAR+IMU localization algorithms for tunnels.</li></ul> <b>Republic of Korea Army</b> <i>Coast Guard</i> <ul style="list-style-type: none"><li>• Mandatory Military Service.</li></ul>	Daejeon, South Korea 2021.12 – 2022.12  Seoul, South Korea 2021.07 – 2021.08  Seoul, South Korea 2020.01 – 2021.02  South Korea 2018.12 – 2019.11
AWARDS	<b>Yonsei Honors Program – Merit-based Full Scholarship</b> , Yonsei University	2015.03
SKILLS	<b>Programming:</b> C++, Python, ROS, Linux, Git, LaTeX <b>Languages:</b> Korean (Native), English (C1), Dutch (A1)	
TRAVEL	<b>Backpacking</b>   Asia, Europe <ul style="list-style-type: none"><li>• Period of personal travel and exploration.</li></ul>	2023.02 – 2023.08