

# Yoonha Choe

## Informatics Graduate Student

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As a graduate informatics student and a former AI software engineer intern, I have a proven track record of developing and deploying cutting-edge AI models across various domains. I am interested in computer vision and natural language processing, particularly generative AI, 3D scene understanding, and text-to-3D generation. I am eager to pursue a career in deep learning as an AI software engineer and research and implement state-of-the-art AI technologies to solve real-world business problems and drive business growth.

## ☰ Skill

**Machine Learning Frameworks :** PyTorch, TensorFlow, Keras  
**Programming Languages :** Python, C, C++, Java, Shell Script,  $\LaTeX$   
**Web Programming :** HTML5, CSS, Django  
**Database :** MySQL  
**Development Tools :** Visual Studio, PyCharm, Unity, GitHub, Jupyter Notebook, Eclipse, Vim, AWS, Microsoft Azure, Google Cloud  
**Others :** OpenCV, CUDA, MATLAB, Linux, Git, OpenMP, MPI, Apache Hadoop

## 📁 Professional Experience

May 2023	<b>AI Software Engineer Intern, Intel Corporation, Munich</b>
May 2022	<ul style="list-style-type: none"><li>➤ Researched and wrote a survey on explainable AI in computer vision and natural language processing models</li><li>➤ Integrated various methods of Class Activation Mapping (CAM) into Intel Explainable AI Tools</li><li>➤ Released Intel Explainable AI Tools v0.3.0 on Intel AI GitHub</li></ul> <div>PyTorch TensorFlow Python GitHub HuggingFace Computer Vision Natural Language Processing</div>
Aug 2022	<b>Undergraduate Researcher, Seoul National University, Seoul</b>
Jul 2022	<ul style="list-style-type: none"><li>➤ Researched performance based on shared LLC partitioning method using Intel CAT</li></ul> <div>Python Shell Script Linux Simulation CPU Monitoring</div>

## 🎓 Education

Sep 2023	<b>M. Sc. Informatics, Technical University of Munich, Germany</b>
Oct 2020	GPA : 2.1 (German Scale)
Feb 2020	<b>B. Sc. Computer Science and Engineering, Ewha Womans University, South Korea</b>
Mar 2015	GPA : 3.85/4.3 (Magna Cum Laude)
Mar 2018	<b>Exchange program, RWTH Aachen University, Germany</b>
Oct 2017	GPA : 1.5 (German Scale)

## 📁 Projects

**One-Shot Landmark-Based Face Reenactment (Master's Thesis, Supervised by Prof. Dr. Matthias Nießner), Technical University of Munich**

- Propose a method of facial reenactment which generates high-resolution reenacted video given a single source identity conditioned by the facial landmarks of the target video using StyleGAN3

### Sugar Beet Leaf Damage Regression Model for Smart Plant Monitoring, Technical University of Munich

- Propose a computer vision and deep learning-based method of detecting sugar beet leaf damage rates using a convolutional neural network that can be incorporated into a smartphone application

### Facial Reenactment from Sparse Landmarks using StyleGAN3, Technical University of Munich

- Propose a method of facial reenactment which enables to transfer the source face movement to the target face by simply tracking sparse facial landmarks

### 3D Object Localization in RGB-D Scans using Natural Language with Graph, Attention and BRNet, Technical University of Munich

- Improve the previous state-of-the-art method named ScanRefer : 3D Object Localization in RGB-D Scans using Natural Language by adapting graph, attention mechanism and object detection module with BRNet



## Presentation

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**Poster Session** Development of Video-Based Landmark Detection System Using Deep Learning, Korea Software Congress, Pyeongchang, 2019



## Awards

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<b>1st Place</b>	Capstone Design Contest, Ewha Womans University, Winter 2019
<b>Honors</b>	Ewha Womans University, Summer 2019
<b>Honors</b>	Ewha Womans University, Winter 2018
<b>Highest Honors</b>	Ewha Womans University, Summer 2017
<b>Highest Honors</b>	Ewha Womans University, Winter 2016



## Language

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<b>English</b>	Fluent - C1
<b>German</b>	Beginner - A2
<b>Korean</b>	Native