

# Kyeongha Rho

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in LinkedIn   🐙 Github   📄 Google Scholar

## Research Interests

My research interest lies in learning semantically rich representations from multiple modalities and harnessing them to solve diverse multimodal tasks across perception and generation.

## Education

**Korea Advanced Institute of Science and Technology (KAIST)**

*Ph.D. in Electrical Engineering*

*Sept 2024 – Present*  
Adviser: Joon Son Chung

**Korea Advanced Institute of Science and Technology (KAIST)**

*MS in Electrical Engineering*

*Sept 2022 – Aug 2024*  
Adviser: Joon Son Chung

**Korea Advanced Institute of Science and Technology (KAIST)**

*BS in Electrical Engineering*

*Mar 2015 – Feb 2019*

- GPA: 3.93/4.3 (*Magna Cum Laude*)

## Work Experience

**Research Intern**

*Naver Webtoon Corporation*

*Pangyo, South Korea*  
*Jul 2022 – Aug 2022*

- Assisted with a research project on generating talking faces for webtoon characters.

**Research Officer (First Lieutenant)**

*Agency for Defense Development (ADD)*

*Daejeon, South Korea*  
*Jun 2019 – May 2022*

- Led research on RGB image-based LiDAR depth image completion.
- Contributed to developing contrastive learning method for reinforcement learning.
- Supported a project on removing noise from satellite images for enhancing the quality of object detection.

**Research Assistant**

*Data Intelligence Lab, KAIST*

*Daejeon, South Korea*  
*Mar 2018 – Dec 2018*

- Participated in a survey project on the interpretability and fairness of deep learning models.

## Publications

C=Conference, J=Journal / \* equal contribution

- [C.1] **LAVCap: LLM-based Audio-Visual Captioning using Optimal Transport**  
Kyeongha Rho\*, Hyeongkeun Lee\*, Valentio Iversen, and Joon Son Chung  
International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2025
- [C.2] **EquiAV: Leveraging Equivariance for Audio-Visual Contrastive Learning**  
Jongsuk Kim\*, Hyeongkeun Lee\*, Kyeongha Rho\*, Junmo Kim, and Joon Son Chung  
International Conference on Machine Learning (ICML), 2024
- [C.3] **Talknce: Improving active speaker detection with talk-aware contrastive learning**  
Chaeyoung Jung, Suyeon Lee, Kihyun Nam, Kyeongha Rho, You-Jin Kim, Youngjoon Jang, and Joon Son Chung.  
International Conference on Acoustics, Speech, and Signal Processing (ICASSP), 2024
- [C.4] **That's What I Said: Fully-Controllable Talking Face Generation**  
Youngjoon Jang\*, Kyeongha Rho\*, Jongbin Woo, Hyeongkeun Lee, Jihwan Park, Youshin Lim, Byeong-Yeol Kim, and Joon Son Chung  
ACM International Conference on Multimedia (ACMMM), 2023
- [C.5] **Guideformer: Transformers for image guided depth completion**  
Kyeongha Rho\*, Jinsung Ha\*, Youngjung Kim  
Conference on Computer Vision and Pattern Recognition (CVPR), 2022
- [J.1] **Action-driven contrastive representation for reinforcement learning**  
Minbeom Kim, Kyeongha Rho, Yong-duk Kim, Kyomin Jung  
PLoS ONE (IF: 3.2), 2022.

## Honors and Awards

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<b>Presidential Science Scholarship</b>	<i>2025 - Present</i>
<b>Outstanding Teaching Assistant Award</b> <ul style="list-style-type: none"><li>◦ <i>Deep Learning for Computer Vision (EE488), KAIST (Fall 2023)</i></li></ul>	<i>2024</i>
<b>Kwon Young-Se Scholarship</b>	<i>2022</i>
<i>4th Place, NTIRE 2020 Workshop Challenge (in conjunction with CVPR 2020)</i> <ul style="list-style-type: none"><li>◦ <i>Spectral Reconstruction from an RGB Image Track</i></li></ul>	<i>2020</i>
<i>4th Place, NTIRE 2020 Workshop Challenge (in conjunction with CVPR 2020)</i> <ul style="list-style-type: none"><li>◦ <i>Real Image Denoising Track</i></li></ul>	<i>2020</i>

## Teaching

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<b>Teaching Assistant</b> , Speech Recognition Systems (EE738), KAIST	<i>Spring 2024</i>
<b>Teaching Assistant (Head TA)</b> , Deep Learning for Computer Vision (EE488), KAIST	<i>Fall 2023</i>
<b>Teaching Assistant</b> , Speech Recognition Systems(EE738), KAIST	<i>Spring 2023</i>
<b>Teaching Assistant</b> , Deep Learning for Computer Vision (EE488), KAIST	<i>Fall 2022</i>

## Skills

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**Programming:** Python, Pytorch, Tensorflow, C/C++  
**Language:** Korean (Native), English (Advanced)