Kyeongha Rho

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LinkedIn Github Google Scholar

Education

Korea Advanced Institute of Science and Technology (KAIST) *Sept 2024 – Present*
Ph.D. in Electrical Engineering Adviser: Joon Son Chung

Korea Advanced Institute of Science and Technology (KAIST) *Sept 2022 – Aug 2024*
MS in Electrical Engineering Adviser: Joon Son Chung

Korea Advanced Institute of Science and Technology (KAIST) *Mar 2015 – Feb 2019*
BS in Electrical Engineering

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

Experience

Research Intern *Pangyo, South Korea*
Naver Webtoon Corporation *Jul 2022 – Aug 2022*

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

Research Officer (First Lieutenant) *Daejeon, South Korea*
Agency for Defense Development (ADD) *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 *Daejeon, South Korea*
Data Intelligence Lab, KAIST *Mar 2018 – Dec 2018*

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

Publications

C=Conference, J=Journal, S=In Submission / * equal contribution

[**C.1**] **Kyeongha Rho***, Hyeongkeun Lee*, Valentio Iverson, and Joon Son Chung. LAVCap: LLM-based Audio-Visual Captioning using Optimal Transport. In *Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2025.

[**C.2**] Jongsuk Kim*, Hyeongkeun Lee*, **Kyeongha Rho***, Junmo Kim, and Joon Son Chung. EquiAV: Leveraging Equivariance for Audio-Visual Contrastive Learning. In *Proceedings of the 41st International Conference on Machine Learning (ICML)*, 2024.

[**C.3**] Chaeyoung Jung, Suyeon Lee, Kihyun Nam, **Kyeongha Rho**, You-Jin Kim, Youngjoon Jang, and Joon Son Chung. Talknce: Improving active speaker detection with talk-aware contrastive learning. In *Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2024.

[**C.4**] Youngjoon Jang*, **Kyeongha Rho***, Jongbin Woo, Hyeongkeun Lee, Jihwan Park, Youshin Lim, Byeong-Yeol Kim, and Joon Son Chung. That's What I Said: Fully-Controllable Talking Face Generation. In *Proceedings of the 31st ACM International Conference on Multimedia (ACMMM)*, 2023.

[**C.5**] **Kyeongha Rho***, Jinsung Ha*, Youngjung Kim. Guideformer: Transformers for image guided depth completion. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.

[**J.1**] Minbeom Kim, **Kyeongha Rho**, Yong-duk Kim, Kyomin Jung. Action-driven contrastive representation for reinforcement learning. *PLoS ONE 17(3): e0265456*, 2022.

Honors and Awards

Presidential Science Scholarship for Graduate Students *2025 - Present*

Outstanding Teaching Assistant Award *2024*
EE488A Deep Learning for Computer Vision, Fall Semester 2023, KAIST

Skills

Programming: Python, Pytorch, Tensorflow, C/C++

Language: Korean (Native), English (Advanced)