Young Kyun Jang

• Post-doc Researcher @ Meta AI • Email: kyun0914@gmail.com • Phone: (+1) 917-864-2597 / (+82) 10-9782-0987
• Address: 100 Binney St., Cambridge, MA, USA • Github / Google Scholar / DBLP / LinkedIn / Webpage

Research Interests

Computer Vision, NLP

- Multi-modal Representation Learning
- Generative AI, Conversational AI
- Foundational Models, Large Language Models
- Information Retrieval
- Recognition, Verification

Work Experience

Meta AI — Cambridge, MA, USA
Post-doc Research Scientist — Oct. 2022 – Current
- Modern Recommendation Systems

Samsung Research — Seoul, Korea
Staff Engineer — Mar. 2022 – Sep. 2022
- AI Methods Team

Naver — Remote
Research Intern — Jun. 2021 – Feb. 2022
- Naver Search

Education

Seoul National University — Seoul, Korea
Ph.D. in Electrical and Computer Engineering — Mar. 2016 - Feb. 2022
Advisor: Prof. Nam Ik Cho

Seoul National University — Seoul, Korea
B.S. in Electrical and Computer Engineering — Mar. 2012 - Feb. 2016

Preprints

1. **Young Kyun Jang**, Dat Huynh, Ashish Shah, Wen-Kai Chen, Ser-Nam Lim, "Spherical Linear Interpolation and Text-Anchoring for Zero-shot Composed Retrieval"
2. **Young Kyun Jang**, Ser-Nam Lim, "Towards Cross-modal Backward-compatible Representation Learning"
3. **Young Kyun Jang**, Donghyun Kim, Ser-Nam Lim, "Distilling Vision-Language Foundation for Efficient Cross-Modal Retrieval"

Publications

1. **Young Kyun Jang**, Donghyun Kim, Zihang Meng, Dat Huynh, and Ser-nam Lim, "Visual Delta Generator with Large Multi-modal Models for Semi-supervised Composed Image Retrieval", CVPR2024.

2. Bo He, Hengduo Li, **Young Kyun Jang**, Menglin Jia, Xuefei Cao, Ashish Shah, Abhinav Shrivastava, and Ser-nam Lim, "MA-LMM: Memory-Augmented Large Multimodal Model for Long-Term Video Understanding", CVPR2024

3. Xuanming Cui, Alejandro Aparcedo, **Young Kyun Jang**, and Ser-nam Lim, "On the Robustness of Large Multimodal Models Against Image Adversarial Attacks", CVPR2024.

4. **Young Kyun Jang**, Dat Huynh, Zihang Meng, and Ser-Nam Lim, "VICT: Visual In-Context Tuning", ICCV Workshop on Multimodal Foundation Models 2023

5. **Young Kyun Jang**, Byungsoo Ko, Geonmo Gu, Issac Kang, and Nam Ik Cho, "Deep Hash Distillation for Image Retrieval", ECCV2022

6. Haeyoon Yang, **Young Kyun Jang**, Isaac Kang, Nam Ik Cho, "Self-Supervised Pretraining for Deep Hash-Based Image Retrieval", ICIP2022

7. **Young Kyun Jang**, Nam Ik Cho, "Self-supervised Product Quantization for Deep Unsupervised Image Retrieval", ICCV2021

8. **Young Kyun Jang**, Nam Ik Cho, "Generalized Product Quantization Network for Semi-supervised Image Retrieval", CVPR2020

9. **Young Kyun Jang**, Nam Ik Cho, "Deep Face Image Retrieval for Cancelable Biometric Authentication"(ORAL), International Conference on Advanced Video and Signal-based Surveillance (AVSS) 2019

10. **Young Kyun Jang**, Dong-ju Jeong, Seok Hee Lee and Nam Ik Cho, "Deep clustering and block hashing network for face image retrieval", ACCV2018

Academic Services

Reviewer

- CVPR, ICCV, ECCV
- IEEE Transaction journals (Artificial Intelligence, Cybernetics)
- Springer journals (International Journal of Computer Vision)

Misc.

- Award: Seoul National University-Samsung Electronics 2020 Industry Cooperation Excellent Paper Award Encouragement Award
- Technical skills: PyTorch, Tensorflow, Python, Matlab, C++