

Kyoungkook Kang

PhD Candidate

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EDUCATION

Mar. 2020 ~ Present	Pohang University of Science and Technology Department of Computer Science and Engineering <i>Advisor: Sunghyun Cho</i> <i>Ph.D. Student</i>	Pohang, Korea
Mar. 2017 ~ Feb. 2019	Daegu Gyeongbuk Institute of Science and Technology Department of Electrical Engineering & Computer Science Thesis: Interactive and Automatic Navigation for 360° Video Playback <i>Advisor: Sunghyun Cho</i> <i>M.S. in Information and Communication Engineering</i>	Daegu, Korea
Mar. 2013 ~ Feb. 2017	Hanyang University Department of Electronic Engineering <i>B.S. in Electronic Engineering</i>	Seoul, Korea

PUBLICATIONS (INTERNATIONAL)

- Kyoungkook Kang**, Sunghyun Cho, "Interactive and automatic navigation for 360° video playback", *ACM TRANSACTIONS ON GRAPHICS (SIGGRAPH 2019)*
- Kyoungkook Kang**, Seongtae Kim, Sunghyun Cho, "GAN Inversion for Out-of-Range Images with Geometric Transformations", *The IEEE/CVF International Conference on Computer Vision (ICCV 2021)*
- Kyoungkook Kang**, Gyujin Sim, Geonung Kim, Donguk Kim, Seungho Nam, Sunghyun Cho, "LayeringDiff: Layered Image Synthesis via Generation, then Disassembly with Generative Knowledge", *ARXIV:2501.01197V1*, (2025)
- Geonung Kim, **Kyoungkook Kang**, Seongtae Kim, Hwayoon Lee, Sehoon Kim, Jonghyun Kim, Seung-Hwan Baek, Sunghyun Cho, "BigColor: Colorization using a Generative Color Prior for Natural Images", *The European Conference on Computer Vision (ECCV 2022)*
- Seongtae Kim, **Kyoungkook Kang**, Geonung Kim, Seung-Hwan Baek, Sunghyun Cho, "DynaGAN: Dynamic Few-shot Adaptation of GANs to Multiple Domains", *SIGGRAPH ASIA 2022*
- Hwayoon Lee, **Kyoungkook Kang**, Hyeongmin Lee, Seung-Hwan Baek, Sunghyun Cho, "UGPNet: Universal Generative Prior for Image Restoration", *The IEEE/CVF Winter Conference on Applications of Computer Vision (WACV 2024)*
- Hyeongmin Lee, **Kyoungkook Kang (Equal Contribution)**, Jungseul Ok, Sunghyun Cho,

PUBLICATIONS (DOMESTIC)

1. **Kyoungkook Kang**, Sunghyun Cho, "Interactive and Automatic Panning for 360° Video Playback", IPIU 2018, (2018)
2. **Kyoungkook Kang**, Sunghyun Cho, "360° 비디오 재생을 위한 자동 패닝", KSC 2018 (우수 논문상), (2018)
3. **Kyoungkook Kang**, Sunghyun Cho, "Interactive and Automatic Navigation for 360° Video Playback", KCGS 2019, Extended Abstract (석사논문상 최우수상), (2019)
4. **Kyoungkook Kang**, Seongtae Kim, Sunghyun Cho, "학습 가능한 옵티마이저를 이용한 고속 StyleGAN 인버전", IPIU 2021 (우수논문상 은상), (2021)
5. 김성태, 강경국, 조성현, "고해상도 GAN 영상 편집을 위한 중간 층 미리 보기", IPIU 2021, (2021)
6. **Kyoungkook Kang**, Seongtae Kim, Sunghyun Cho, "기하적 변형이 포함된 이미지의 GAN Inversion", KCGS 2021, Extended Abstract, (2021)
7. 김건웅, 강경국, 김성태, 이화윤, 김세훈, 김종현, 조성현, "BigGAN 인버전을 활용한 흑백 영상 색상화", IPIU 2022, (2022)
8. 김성태, 강경국, 김건웅, 백승환, 조성현, "다중 도메인으로의 적대적 생성 신경망의 동적 퓨샷 적응", KCGS 2022, Extended Abstract, (2022)
9. 이화윤, 강경국, 이형민, 백승환, 조성현, "회귀 기반 신경망과 적대적 생성망을 함께 활용한 영상 복원", IPIU 2023, (2023)
10. 이형민, 강경국, 옥정슬, 조성현, "비지도학습을 통한 텍스트 기반의 영상 톤 조정", IPIU 2024, (2024)

SELECTED AWARDS AND HONORS

- 석사논문상 최우수상, KCGS 2019, Korea (Jul. 2019)
- Naver Ph.D Fellowship, Naver, Korea (Dec. 2021)
- Samsung Ph.D. Fellowship Award, Samsung Advanced Institute of Technology (SAIT), Korea (Mar. 2023)

PATENTS

1. Sung Hyun, Cho, Kang Kyoungkook, "Apparatus and method for playing 360-degree video", KR-Registration No. 10-2179243-0000
2. 김건웅, 강경국, 김성태, 이화윤, 김종현, 김세훈, 백승환, 조성현, "흑백 이미지 내에 포함된 픽셀들 각각의 색상을 생성하기 위한 전자 장치, 방법, 및 컴퓨터 판독 가능 저장 매체", KR-Application No. 10-2022-0114554

PROFESSIONAL ACTIVITIES

- Reviewer
 - IEEE Computer Vision and Pattern Recognition (CVPR)
 - European Conference on Computer Vision (ECCV)
 - IEEE International Conference on Computer Vision (ICCV)
 - International Journal of Computer Vision (IJCV)

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)