

Hoseok Tong

Ph.D. Candidate

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[Scholar](#) [GitHub](#) [Email](#) [LAB](#)



About Me

I am Hoseok Tong, a Ph.D. candidate at Yonsei University, supervised by Prof. Sanghoon Lee. I am particularly interested in developing technologies for creating 4D human avatars, focusing on utilizing AI in the process. My research aims to apply these avatars to multimedia content, enabling their use across various fields in the entertainment industry.

Publications

Journals

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Conferences

- J Kim, H Oh, S Kim, **Hoseok Tong**, S Lee, "A Brand New Dance Partner: Music-Conditioned Pluralistic Dancing Controlled by Multiple Dance Genres", Conference on Computer Vision and Pattern Recognition (CVPR2022)

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Global Collaborative Research Experience

- Conducted research on advanced AI-driven multimedia applications and virtual reality technologies under the supervision of Prof. Jianfei Cai at Monash University, Melbourne, Australia (Jan. 2025 – Mar. 2025).

Project Experience

- 생성형 AI 콘텐츠 저작권 침해 판별 기술 개발 및 글로벌형 전문인력 양성 | 2024.04 - Present | 한국콘텐츠진흥원
- 합성전장 환경의 초실감 통합전투훈련 플랫폼 | 2024.01 - present | 한국전자통신연구원
- 현실세계와 가상공간이 동기화되어 극사실적 상호 작용이 가능한 Beyond X-verse 원천기술 개발 | 2023.09 - present | 한국전자통신연구원
- 정량 화질 평가 알고리즘 개발 | 2023.02 - 2023.12 | 삼성전자
- 설명 가능한 감성 경험 예측 모델 기반 콘텐츠 평가 기술 개발 및 상용화 | 2023.03 - 2023.08 | 정보통신기획평가원
- 시각적 인지연구 기반 시공간 도메인 확장 최적화 기술 연구 | 2022.09 - 2023.02 | 한국연구재단
- 5G 기반 저지연 디바이스 - 엣지클라우드 인터랙션 기술 개발 | 2021.09 - 2023.02 | 정보통신기획평가원

Reviewer Experience

- Invited Reviewer for IEEE Transactions on Multimedia (1 manuscript)
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Education

Yonsei University - Seoul, Korea

- M.S. and Ph.D. Candidate in Electrical and Electronic Engineering.
- Supervised by Prof. Sanghoon Lee.
- Sep. 2021 - Present

Yonsei University - Seoul, Korea

- B.S. in Electronic Engineering
 - Mar. 2015 - Aug. 2021
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Skills

- Languages: Korean (native), English (fluent)
 - Programming Languages: Python, MatLab, C++/Cuda
 - Tools and Frameworks: PyTorch, Tensorflow
 - Soft Skills: Team Leadership, Project Management
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