Youngkil **Song**

INTEGRATED M.S & PH.D STUDENT @ COMPUTER VISION LAB.

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Research Interests

Computer Vision and Deep Learning
- Video Understanding
- Online Temporal Action Localization
- Video Group Activity Detection
- Video Question Answering
- Reasoning Temporal Localization

Education

POSTECH(Pohang University of Science and Technology)　　　　　　　　　　*Pohang, S. Korea*
INTEGRATED M.S & PH.D STUDENT IN ARTIFICIAL INTELLIGENCE　　　　　　　　*Mar. 2022 - Present*
- Advisor: Prof. Suha Kawk
- Cumulative GPA: - (4.13) / 4.3

Hanyang University　　　　　　　　　　　　　　　　　　　　　　　　*Seoul, S. Korea*
B.S. IN ELECTRONIC ENGINEERING　　　　　　　　　　　　　　　　　　*Mar. 2016 - Feb. 2022*
- Advisor: Prof. Seongho Cho
- Cumulative GPA: 4.39 / 4.5

Experience

Business Intelligence & Strategy Lab, Hanyang University　　　　　　　*Seoul, S. Korea*
UNDERGRATED RESEARCHER　　　　　　　　　　　　　　　　　　　　*Mar. 2021 - Sep. 2021*
- Develop a radar-based device that measures sleep quality and provides personalized sleep diagnoese for each user with an accumulated checklist consisting of factors affecting individual sleep.
- Mentor: Seongho Cho

Publication

- **Online Temporal Action Localization with Memory-augmented Transformer**　　*2024*
  YOUNGKIL SONG*, DONGKEUN KIM*, MINSU CHO, and SUHA KWAK
  In Proc. of IEEE/CVF European Conference on Computer Vision (ECCV 2024)
- **Towards More Practical Group Activity Detection: A New Benchmark and Model**　　*2024*
  DONGKEUN KIM, YOUNGKIL SONG, MINSU CHO, and SUHA KWAK
  In Proc. of IEEE/CVF European Conference on Computer Vision (ECCV 2024)
- **Improving Sound Source Localization with Joint Slot Attention on Image and Audio**　　*2025*
  INHO KIM, YOUNGKIL SONG, JICHEOL PARK, WON HWA KIM, and SUHA KWAK
  IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2025)

Patent

- **VIDEO TEMPORAL ACTION LOCALIZATION METHOD AND DEVICE**　　　　　　*2023*
  YOUNGKIL SONG*, DONGKEUN KIM, MINSU CHO, SUHA KWAK
  Korean Patent, KR10-2023-0177837
- **VIDEO TEMPORAL ACTION LOCALIZATION METHOD AND DEVICE**　　　　　　*2024*
  YOUNGKIL SONG*, DONGKEUN KIM, MINSU CHO, SUHA KWAK
  U.S. Patent Pending, US18924930

Honors & Awards

2016 Excellence Prize, Hanyang University *Seoul, S. Korea*
2016 Academic Excellence Scholarship, Hanyang University *Seoul, S. Korea*
2017 Excellence Prize, Hanyang University *Seoul, S. Korea*
2017 Academic Excellence Scholarship, Hanyang University *Seoul, S. Korea*
2020 Excellence Prize, Hanyang University *Seoul, S. Korea*
2020 Hanyang Academic Top Prize, Hanyang University *Seoul, S. Korea*
2020 National Science & Technology Scholarship, Republic of Korea *Seoul, S. Korea*
2021 Excellence Prize, Hanyang University *Seoul, S. Korea*
2021 Hanyang Academic Top Prize, Hanyang University *Seoul, S. Korea*
2021 National Science & Technology Scholarship, Republic of Korea *Seoul, S. Korea*
2022 X-Vision: Image Recognition in Extreme Environments, Samsung Future Technology Development *Seoul, S. Korea*
2026 Gold Prize, 38th Workshop of Image Processing and Image Undetstanding *Jeju, S. Korea*

Academic Services

- Asian Conference on Computer Vision (ACCV): 2024

- Women in Computer Vision Workshop @ ACCV (ACCV): 2024

- Pattern Recognition (PR, journal): 2025-2026

Teaching Experience

- **Teaching Assistant in POSTECH**
  CSE101, Programming Language (Fall 2023)