

# Janghoon Choi

---

Postdoctoral Researcher, ASRI, Seoul National University  
ultio791@snu.ac.kr, ultio791@gmail.com

**INTERESTS** Video analysis, visual tracking, meta-learning

**EDUCATION** **Ph.D., EECS, Seoul National University (SNU)** Mar 2013 - Feb 2021

- Integrated Ph.D program in Electrical Engineering and Computer Science
- Thesis: Robust Visual Tracking via Learned Model Adaptation
- Advisor: Kyoung Mu Lee

**B.S., ECE, Seoul National University (SNU)** Mar 2009 - Feb 2013

- B.S. in Electrical and Computer Engineering

**PUBLICATIONS** • Myungsub Choi, **Janghoon Choi**, Sungyong Baik, Tae Hyun Kim, and Kyoung Mu Lee, “Test-Time Adaptation for Video Frame Interpolation via Meta-Learning,” *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, *Under Review*.

• Sungyong Baik, **Janghoon Choi**, Heewon Kim, Dohee Cho, Jaesik Min, and Kyoung Mu Lee, “Meta-Learning with Task-Adaptive Loss Function for Few-Shot Learning,” *Under Review*, 2021.

• **Janghoon Choi**, Sungyong Baik, Myungsub Choi, Junseok Kwon, and Kyoung Mu Lee, “Visual Tracking by Adaptive Continual Meta-Learning,” *Under Review*, 2021.

• Heewon Kim, Sungyong Baik, Myungsub Choi, **Janghoon Choi**, and Kyoung Mu Lee, “Searching for Controllable Image Restoration Networks,” *Under Review*, *arXiv preprint arXiv:2012.11225*, 2021.

• Sungyong Baik, Myungsub Choi, **Janghoon Choi**, Heewon Kim, and Kyoung Mu Lee, “Meta-Learning with Adaptive Hyperparameters,” *Advances in Neural Information Processing Systems (NeurIPS)*, 2020.

• **Janghoon Choi**, Junseok Kwon, and Kyoung Mu Lee, “Visual Tracking by TridentAlign and Context Embedding,” *Asian Conference on Computer Vision (ACCV)*, 2020.

• Myungsub Choi, **Janghoon Choi**, Sungyong Baik, Tae Hyun Kim, and Kyoung Mu Lee, “Scene-Adaptive Video Frame Interpolation via Meta-Learning,” *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.

• **Janghoon Choi**, Junseok Kwon, and Kyoung Mu Lee, “Deep Meta Learning for Real-Time Target-Aware Visual Tracking,” *IEEE International Conference on Computer Vision (ICCV)*, 2019.

• **Janghoon Choi**, Junseok Kwon, and Kyoung Mu Lee, “Real-Time Visual Tracking by Deep Reinforced Decision Making,” *Computer Vision and Image Understanding (CVIU)*, 2018.

**PROJECTS** • **The technology development for event recognition/relational reasoning and learning knowledge based system for video understanding**  
IITP, Ministry of Science and ICT of Korea, South Korea

(Mar 2017 - Present)

• **Research on machine learning workload estimation and acceleration for next generation mobile intelligence**

Samsung Electronics, South Korea

(Aug 2016 - Sep 2017)

• **Research on improving accuracy and efficiency of appearance models for robust visual tracking**

DGIST, South Korea

(Feb 2013 - Dec 2013)

**ACTIVITIES**

**Reviewer**

- ICCV 2021
- IEEE Transactions on Neural Networks and Learning Systems
- Computer Vision and Image Understanding
- Knowledge-Based Systems
- Neurocomputing
- Engineering Applications of Artificial Intelligence
- ACM Computing Surveys
- ETRI Journal

**Talks**

- NAVER ICCV 2019 Paper Night
- AIIA Video Intellegence Workshop 2019, Research Highlights

**Teaching Assistant**

- Signals and Systems, SNU ECE (Spring 2013)
- Introduction to Computer Vision, SNU ECE (Spring 2017)

**AWARDS**

Bronze Prize, The 27th Humantech Paper Award, Samsung Electronics

Feb 2021

**SCHOLARSHIP**

Superior Academic Performance Scholarship, Seoul National University

2010 - 2012

**SKILLS**

*Programming Languages:* **Python**, MATLAB, C++

*Human Languages:* **English** - fluent, **Japanese** - fluent, **Korean** - native

**REFERENCES**

**Kyoung Mu Lee**

*Professor*

Department of Electrical and Computer Engineering

Seoul National University

kyoungmu@snu.ac.kr

<https://cv.snu.ac.kr/kmlee>

**Junseok Kwon**

*Associate Professor*

School of Computer Science and Engineering

Chung-Ang University

jskwon@cau.ac.kr

<http://cau.ac.kr/~jskwon>