

□ (+82) 010-7155-9736 | **□** psh01087@kaist.ac.kr | **☆** psh01087.github.io

Research Interest \_

**Computer Vision** 

Education

Integrated Ph. D. in Artificial Intelligence

KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHONOLOGY (KAIST), GRADUATE CANDIDATE

• Advisor: Prof. Jaegul Choo

M.S. in Artificial Intelligence

KOREA UNIVERSITY, GRADUATE CANDIDATE

• Advisor: Prof. Jaegul Choo

**B.S. in Computer Science** 

KOREA UNIVERSITY

Daejeon, S.Korea

Mar. 2020 - Present

Seoul, S.Korea

Sep. 2019 - Feb. 2020

Seoul, S.Korea

Mar. 2013 - Aug. 2019

### **Publications**

### **CONFERENCE PAPERS**

**C1** S. Kim\*, **S. Park\***, S. Chung\*, J. Lee, Y. Lee, H. Kim, Mr Prabhat, and J. Choo. "Learning to Focus and Track Extreme Climate Events"

British Machine Vision Conference (BMVC), 2019, Cardiff, UK, Accepted as Spotlight

- C2 S. Park\*, and S. Choi. "PP-VTON: Pose-Preserving Image-based Virtual Try-On Network" Korea Software Congress (KSC), 2019, Pyeongchang, South Korea
- C3 S. Park\*, K. Kim\*, J. Lee, J. Choo, J. Lee, S. Kim, and E. Choi. "Vid-ODE: Continuous-Time Video Generation with Neural Ordinary Differential Equation"

AAAI Conference on Artificial Intelligence (AAAI), 2021, Virtual, Accepted

**C4** S. Choi\*, **S. Park\***, M. Lee\*, and J. Choo. "VITON-HD: High-Resolution Virtual Try-On via Misalignment-Aware Normalization"

IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021, Virtual, Accepted

**C5** T. Kim\*, C. Chung\*, **S. Park**\*, G. Gu, K. Nam, W. Choe, J. Lee and J. Choo. "K-Hairstyle: A Large-scale Korean Hairstyle Dataset for Virtual Hair Editing and Hairstyle Classification"

IEEE International Conference on Image Processing (ICIP), 2021, Anchorage, USA, Accepted

**C6** K. Kim\*, *S. Park*\*, J. Lee, J. Lee, S. Kim, J. Choo, and E. Choi. "Continuous-Time Video Generation via Learning Motion Dynamics with Neural ODE"

British Machine Vision Conference (BMVC), 2021, Virtual, Accepted

**C7** J. Lee\*, J. Yun\*, *S. Park*, Y. Kim, and J. Choo. "Improving Face Recognition with Large Age Gaps by Learning to Distinguish Children"

British Machine Vision Conference (BMVC), 2021, Virtual, Accepted

**C8** C. Chung\*, T. Kim\*, H. Nam\*, S. Choi, G. Gu, **S. Park**, and J. Choo. "HairFIT: Pose-invariant Hairstyle Transfer via Flow-based Hair Alignment and Semantic-region-aware Inpainting"

British Machine Vision Conference (BMVC), 2021, Virtual, Accepted as Oral Presentation

### **WORKSHOP PAPERS**

**W1** S. Kim\*, *S. Park*\*, S. Chung\*, J. Lee, Y. Lee, H. Kim, Mr Prabhat, and J. Choo. "Focus and track: pixel-wise spatio-temporal hurricane tracking"

ICML 2019 Workshop Climate Change: How Can Al Help?, 2019, California, USA

**W2** S. Kim\*, *S. Park\**, S. Chung\*, J. Lee, Y. Lee, H. Kim, Mr Prabhat, and J. Choo. "Learning to Focus and Track Hurricanes"

NIPS 2019 Workshop Tackling Climate Change with Machine Learning, 2019, Vancouver, Canada

**W3** *S. Park\**, K. Kim\*, S. Kim\*, J. Lee, J. Lee, J. Lee, and J. Choo. "Hurricane Nowcasting with Irregular Time-step using Neural-ODE and Video Prediction"

ICLR 2020 Workshop Tackling Climate Change with Machine Learning, 2020, Virtual, Accepted as Spotlight

### Work Experience \_\_\_\_\_

Kakao Enterprise

**MEMBERSHIP PROGRAM** 

• Long-Tailed Classification

Pangyo, S.Korea

Jul. 2021 - Dec. 2021.

Kakao Enterprise

**RESEARCH INTERN** 

• Long-Tailed Classification

Pangyo, S.Korea

Mar. 2021 - Jun. 2021

### Data and Visual Analytics Lab, Korea University

### Undergraduate Researcher

Hurricane tracking

- Polyp detection with SSD (Single Shot Multi-box Detector)
- Brain stroke onset time classification with ResNet-3D model

Seoul, S.Korea

Jul. 2018 - Aug. 2019

Daumsoft

Seoul, S.Korea

Jan. 2018 - Feb. 2018

Instagram data analysis with object detection and clustering

# **Teaching Experience**

#### AI WORKSHOP INSTRUCTOR

- SAIT, (ML / DL Action Learning) instructing Computer Vision, Sep. 2021 Oct. 2021.
- SK Telecom, (Big Tech Academy, Al Course) instructing Computer Vision, Sep. 2021.
- Global Startup Academy, instructing Computer Vision & Kaggle Competition, Dec. 2020 Feb. 2021.
- **SK Telecom**, instructing Image generation, Sep. 2020.
- Samsung DS KAIST (Al Expert Program), instructing Image-to-Image translation, Oct. 2020.
- Samsung DS KAIST (AI Expert Program), instructing NLP, Oct. 2019.
- Samsung DS KAIST (AI Expert Program), instructing Computer Vision, Aug. 2019.

#### **TEACHING ASSISTANT**

- [Al604] Deep Learning for Computer Vision, Sep. 2021 Dec. 2021.
- [Al604] Deep Learning for Computer Vision, Sep. 2020 Dec. 2020.
- [Al602] Advanced Deep Learning, Mar. 2020 Jun. 2020.

## Grant and Award \_\_\_\_\_

### AWARD

- Microsoft AI for Earth (ICLR Workshop Paper [W3]), May. 2020.
  2017 Qualcomm Innovation Award, Mar. 2018.

# References \_\_\_\_\_

**Jaegul Choo** 

Associate Professor

KAIST

JCHOO@KAIST.AC.KR