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

## Research Interest

**Computer Vision, Neural-ODE** 

## Education

## M.S. 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

## **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 AI 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

#### **PREPRINTS**

**P1** S. Choi\*, **S. Park\***, M. Lee\*, and J. Choo. "VITON-HD: High-Resolution Virtual Try-On via Misalignment-Aware Normalization"

**Under review** 

**P2** 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"

**Under review** 

**P3** Y. Kim\*, J. Lee\*, *S. Park*, H. Lee, and J. Choo. "Missing one child is one too many: Improving face representation of children for finding missing children"

**Under review** 

**P4** 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"

**Under review** 

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

## Data and Visual Analytics Lab, Korea University

Seoul, S.Korea

Jul. 2018 - Aug. 2019

Undergraduate Researcher

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

**Daumsoft** Seoul, S.Korea

**INTERN** Jan. 2018 - Feb. 2018

· Instagram data analysis with object detection and clustering

# **Teaching Experience**

### AI WORKSHOP INSTRUCTOR

- **SK Telecom**, instructing Image generation, Sep. 2020.
- Samsung DS KAIST (Al Expert Program), instructing Image-to-Image translation, Oct. 2020.
- Samsung DS KAIST (Al 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. 2020 Dec. 2020.
- [Al602] Advanced Deep Learning, Mar. 2020 Jun. 2020.

## **Grant and Award**

#### AWARD

• 2017 Qualcomm Innovation Award, Mar. 2018.

# References \_\_

Jaegul Choo Associate Professor

JCHOO@KAIST.AC.KR