Sunghyun **Park**

AI RESEARCHER

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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

Daejeon, S.Korea
Mar. 2020 - Present

M.S. in Artificial Intelligence
KOREA UNIVERSITY, GRADUATE CANDIDATE
- Advisor: Prof. Jaegul Choo

Seoul, S.Korea
Sep. 2019 - Feb. 2020

B.S. in Computer Science
KOREA UNIVERSITY

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

Work Experience

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
Intern
- Instagram data analysis with object detection and clustering

Seoul, S.Korea
Jan. 2018 - Feb. 2018

Teaching Experience

AI Workshop Instructor
- **SK Telecom**, instructing Image generation, Sep. 2020.
- **Samsung DS KAIST** (AI 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
- **[AI604] Deep Learning for Computer Vision**, Sep. 2020 - Dec. 2020.
- **[AI602] Advanced Deep Learning**, Mar. 2020 - Jun. 2020.

Grant and Award

Award
- 2017 Qualcomm Innovation Award, Mar. 2018.

References

Jaegul Choo
JCHOO@KAIST.AC.KR

Associate Professor
KAIST