Seong Hyeon Park

shpark@spa.hanyang.ac.kr

EDUCATION

- **Hanyang University**   Seoul, Korea
  Master of Science in Electrical Engineering (expected Aug 2020).   *Mar 2018 – Present*

- **Hanyang University**   Seoul, Korea
  Bachelor of Science in Electrical Engineering; GPA: 4.11/4.50, *Summa cum laude.*   *Mar 2012 – Feb 2018*

RESEARCH EXPERIENCE

- **Carnegie Mellon University**   Pittsburgh, PA, USA
  Visiting Student (Advisor: Prof. Jaime Carbonell)   *Aug 2019 – Feb 2020*
  - **Research Project**: Diverse and Admissible Trajectory Forecasting through Multimodal Context Understanding. The paper [PP1] won "Honorable Mention" in Argoverse Motion Forecasting Challenge @ CVPR 2020 Workshop on Autonomous Driving and is submitted to ECCV 2020.
  - **Courses**: Computer Vision, Machine Learning for Text Mining, etc.; GPA 4.0/4.0

- **Signal Processing & Artificial Intelligence Lab., Hanyang University**   Seoul, Korea
  Researcher (Advisor: Prof. Jun Won Choi)   *Mar 2018 - Jul 2019*
  - **Trajectory Forecasting**: Developed a deep learning model for vehicle trajectory prediction. The results are published as a conference paper [C1] and registered as a patent [P1].
  - **Signal Processing**: Developed Python codes for on-vehicle radar and lidar data filtering and association in real-time driving data acquisition system.
  - **National Research Projects**: Participated in two national research projects (described in PROJECTS section).

PROJECTS

- **Technology Innovation Program (NTIS #1415158637)**: Development of deep learning-based future prediction and risk assessment technology considering inter-vehicular interaction in cut-in Scenario. National research project.
- **Global Creative SW Program (NTIS #1711058611)**: Development of intelligent interaction technology based on context awareness and human intention understanding. National research project.

PUBLICATIONS (PRE-PRINTS, CONFERENCES, AND PATENTS)

[PP1] Seong Hyeon Park, Gyubok Lee, Minseok Kang, Jimin Seo, Manoj Bhat, Ashwin Jadhav, Jonathan Francis, Paul Liang and Louis-Philippe Morency. "Diverse and Admissible Trajectory Forecasting through Multimodal Context Understanding ." In arXiv 2003.03212.

[C1] Seong Hyeon Park, Byeongdo Kim, Chang Mook Kang, Chung Choo Chung and Jun Won Choi. "Sequence-to-Sequence Prediction of Vehicle Trajectory via LSTM Encoder-Decoder Architecture." In IEEE IV, 2018 **(Oral session for the selected 5%)**.

[P1] Seong Hyeon Park, ByeongDo Kim and Jun Won Choi. "Vehicle Trajectory Prediction Technique via Modularized Recurrent Neural Network Architecture." Korean patent 2019. (DOI 10.8080/1020180057025)

PROFESSIONAL ACTIVITIES

Journal Reviewer: IEEE Transactions on Intelligent Transportation Systems, IEEE Transactions on Big Data, Elsevier Neurocomputing

AWARDS AND SCHOLARSHIPS

[A1] Honorable Mention (Argoverse Motion Forecasting Challenge), 2020.
[A2] Academic Excellence Award (Hanyang University), 2018.
[S1] Kwanjeong Educational Foundation, 2018 – 2020.
[S2] BK21 (Korean Government), 2018.
[S3] Korea Semiconductor Industry Association, 2017.
[S4] Hanyang Alumni Association (Department of Electrical Engineering), 2017.