

CHAERIN KONG

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RESEARCH INTEREST

Machine Learning, Computer Vision, Probabilistic Modeling

EDUCATION

SEOUL NATIONAL UNIVERSITY

Seoul, Korea

M.S. candidate, Department of Intelligence and Information

Sept. 2021 – Present

Advisor: Prof. Nojun Kwak, GPA: 4.1/4.3

SEOUL NATIONAL UNIVERSITY

Seoul, Korea

Bachelor of Business Administration,

Mar. 2015 – Aug. 2021

Bachelor of Science in Statistics,

Summa cum laude, GPA: 4.11/4.3

PUBLICATIONS

Chaerin Kong, Jeessoo Kim, Donghoon Han, Nojun Kwak, "Few-shot Image Generation with Mixup-based Distance Learning", European Conference on Computer Vision (ECCV 2022), Oct. 2022.

Chaerin Kong*, Jiho Jang*, Donghyeon Jeon, Seonhoon Kim, Nojun Kwak, "Unifying Vision-Language Representation Space with Single-tower Transformer", *under review*

Chaerin Kong, Donghyeon Jeon, Ohjoon Kwon, Nojun Kwak, "Leveraging Off-the-shelf Diffusion Model for Multi-attribute Fashion Image Manipulation", *under review*

Chaerin Kong, Nojun Kwak, "Conservative Generator, Progressive Discriminator: Coordination of Adversaries in Incremental Few-shot Image Synthesis", *under review*

Yeji Song, **Chaerin Kong**, Seo Young Lee, Nojun Kwak, Joonseok Lee, "Towards Efficient Neural Scene Graphs by Learning Consistency Fields", *under review*

Jiho Jang, Seonhoon Kim*, KiYoon Yoo*, **Chaerin Kong**, Jangho Kim, Nojun Kwak, "Self-distilled Self-supervised Representation Learning", *under review*

RESEARCH EXPERIENCE

NAVER, LANGUAGE AND VISION TEAM

SeongNam, Korea

Research Intern

Apr. 2022 – Sept. 2022

- Led research projects on text-driven image editing and modality-agnostic vision-language representation learning.
- First-authored two papers that are submitted to major AI conferences and currently under review.
- Provided thorough technical survey of recent advances in data-efficient 3D scene rendering.

KAIST, DATA AND VISUAL ANALYTICS LAB

SeongNam, Korea

Research Intern

Mar. 2021 – Apr. 2021

- Conducted experiments for a research project on image outpainting, including various baselines whose codebase is constructed upon TensorFlow and PyTorch.

SNU, MACHINE INTELLIGENCE AND PATTERN ANALYSIS LAB Seoul, Korea

Research Intern *Jan. 2021 – Feb. 2021*

- Spearheaded a team project on animation frame interpolation from data preparation to modeling and evaluation.

ARTIFICIAL INTELLIGENCE INSTITUTE OF SNU (AIIS) Seoul, Korea

Research Intern *Jul. 2020 – Aug. 2020*

- Proposed a novel technical indicator optimization framework based on attention mechanism and verified its advantages with systematic backtesting.

PROFESSIONAL EXPERIENCE

BEMYPET Seoul, Korea

Operations Manager Intern *Dec. 2019 – Jan. 2020*

- Monitored service KPIs with Google Analytics.
- Assisted service (web) development using python Django.

WOOWA BROTHERS Seoul, Korea

Data Analyst Intern *Sept. 2019 – Nov. 2019*

- Analyzed customer retention and churn rate with respect to total delivery time.
- Provided data analytics report for a new delivery fee charge system design.

MILITARY EXPERIENCE

REPUBLIC OF KOREA ARMY BAND, 32ND INFANTRY DEVISION Sejong, Korea

First Trumpet, Squad Leader *Nov. 2016 – Aug. 2018*

- Participated in hundreds of military and civil events as lead trumpet, including Korean War memorial ceremonies and public school concerts.

TECHNICAL SKILLS

- Language: Korean (native fluency), English (full professional proficiency), Spanish (beginner)
- Computer: Python (PyTorch, TensorFlow, Django), SQL, R, HTML, CSS

EXTRA CURRICULAR

- ELICE (MOOC), Python / Machine Learning / Statistics Instructor *Jul. 2021 – Jul. 2022*
- DACON *Overlapped Voice Recognition Challenge*, 10th place *Aug. 2020*
- DB Group *Dream Mentoring*, Volunteer Student Mentor *Mar. 2016 – Aug. 2016*
- SNU *Debate Contest*, 1st place *Oct. 2015*
- SNU *Drama Club*, Member (Lead Actor, Stage Designer) *Mar. 2015 – Nov. 2016*
- SNU *Football Club Armada*, Member (Left Wing MF) *Mar. 2015 – Aug. 2016*
- GFN *Korean English Debate Contest*, 2nd place *Sept. 2013*