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 and Science in Statistics *Mar. 2015 – Aug. 2021*
Summa cum laude, GPA: 4.11/4.3

PUBLICATIONS

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

Yeji Song, **Chaerin Kong**, Seo Young Lee, Nojun Kwak, Joonseok Lee, "Towards Efficient Neural Scene Graphs by Learning Consistency Fields", British Machine Vision Conference (BMVC 2022), Nov. 2022.

Chaerin Kong, Donghyeon Jeon, Ohjoon Kwon, Nojun Kwak, "Leveraging Off-the-shelf Diffusion Model for Multi-attribute Fashion Image Manipulation", Winter Conference on Applications of Computer Vision (WACV 2023), Jan. 2023

Jiho Jang, Seonhoon Kim*, KiYoon Yoo*, **Chaerin Kong**, Jangho Kim, Nojun Kwak, "Self-distilled Self-supervised Representation Learning", Winter Conference on Applications of Computer Vision (WACV 2023), Jan. 2023

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

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

RESEARCH EXPERIENCE

SNU, MACHINE INTELLIGENCE AND PATTERN ANALYSIS LAB Seoul, Korea
M.S. Student *Sept. 2021 – Present*

- Published a paper on few-shot image synthesis to ECCV that explores pretraining-free image generation with only a handful of training images.
- Proposed a novel framework for incremental few-shot learning of generative models that tackles overfitting and catastrophic forgetting with sensible role allocation in GAN.
- Led weekly seminars on self-supervised learning, neural rendering and continual learning.

NAVER, LANGUAGE AND VISION TEAM   SeongNam, Korea

Research Intern   *Apr. 2022 – Sept. 2022*

- Headed research projects on text-driven image editing and modality-agnostic vision-language representation learning.
- First-authored two papers (accepted to WACV'23, under review for AAAI'23 phase 2).
- 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 codebases are based on 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*

- Enhanced customer acquisition and retention by KPI monitoring with Google Analytics.
- Assisted service (web) development to add customer-oriented features to the platform.

WOOWA BROTHERS   Seoul, Korea

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

- Analyzed customer retention and churn rate with respect to total delivery time.
- Presented data analytics reports that laid foundations for a new delivery fee charge system.

MILITARY EXPERIENCE

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

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

- Participated in hundreds of military and civil events as lead trumpet and squad leader.

SCHOLARSHIPS

Merit-Based Scholarship (full tuition), SNU   *Spring 2016, Fall 2018, Spring 2019, Fall 2019*
Merit-Based Scholarship (partial tuition), SNU   *Spring 2015, Fall 2015, Fall 2020*

TECHNICAL SKILLS

- Language: Korean (native fluency), English (full professional proficiency, TOEFL iBT: 118/120)
- 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*