CHAERIN KONG

・Phone # (+82 10) 6261-4616・rin4616@gmail.com

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

J. Jang*, **C. Kong***, D. Jeon, S. Kim, N. Kwak, "Unifying Vision-Language Representation Space with Single-tower Transformer", Association for the Advancement of Artificial Intelligence (AAAI 2023), Feb. 2023. (* *equal contributions*)

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

J. Jang, S. Kim*, KY Yoo*, **C. Kong**, J. Kim, N. Kwak, "Self-distilled Self-supervised Representation Learning", Winter Conference on Applications of Computer Vision (WACV 2023), Jan. 2023

Y. Song, **C. Kong**, S. Y. Lee, N. Kwak, J. Lee, "Towards Efficient Neural Scene Graphs by Learning Consistency Fields", British Machine Vision Conference (BMVC 2022), Nov. 2022.

C. Kong, J. Kim, D. Han, N. Kwak, "Few-shot Image Generation with Mixup-based Distance Learning", European Conference on Computer Vision (ECCV 2022), Oct. 2022.

C. Kong, N. 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
Graduate Student Researcher   *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, each accepted to AAAI and WACV.
- 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*