# 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

**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 (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*

- 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 DIVISION          Sejong, Korea

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

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

## 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*