

# CHAERIN KONG

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## RESEARCH INTEREST

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Machine Learning, Computer Vision, Probabilistic Modeling

## EDUCATION

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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

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**C. Kong\***, J. Jang\*, 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.

**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

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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**

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**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**

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**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**

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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**

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- Language: Korean (native fluency), English (full professional proficiency, TOEFL iBT: 118/120)
- Computer: Python (PyTorch, TensorFlow, Django), SQL, R, HTML, CSS

## EXTRA CURRICULAR

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- ELICE (MOOC), Python / Machine Learning / Statistics Instructor *Jul. 2021 – Jul. 2022*
- DAICON *Overlapped Voice Recognition Challenge*, 10<sup>th</sup> place *Aug. 2020*
- DB Group *Dream Mentoring*, Volunteer Student Mentor *Mar. 2016 – Aug.2016*
- SNU *Debate Contest*, 1<sup>st</sup> 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*, 2<sup>nd</sup> place *Sept. 2013*