Seonuk Kim

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EDUCATION

2020 - Present **Ulsan National Institute of Science and Technology (UNIST)**
B.Sc. Candidate in *Industrial Engineering* and *Design*

PUBLICATION

[C1] Seonuk Kim, and Kyungho Lee. "A Study on the Use of AI as Creative Support Tool for Line Drawing in Manga Production." *KSDS Spring Conference Proceeding*, 2022.
Student Paper Honorable Mention Award

HONORS & AWARDS

2022 **Honorable Mention, Spring DSUS**
Korea Society of Design Studies (KSDS)

2022 **Excellence Prize, IEEE Quiz Contest**
IEEE, KITIS

2021 **Silver Prize, Data Science Competition**
Korea National Oil Corporation (KNOC)
UNIST, POSTECH, KAIST, etc.

2021 **Gold Prize, Undergrad Essay Contest**
Consulate-General of Japan in Busan

2020 **Special Prize, Uni-CODE**
UNIST Algorithm Programming Contest

2020 **Excellence Prize, Patent Universiade**
Korean Intellectual Property Office (KIPO)
Samsung Electronics

SKILLS

Data Science	NumPy, Pandas, Matplotlib, Seaborn (*Main Lang.: Python*)
AI/ML	Tensorflow, Keras, PyTorch, Pycaret, Prophett
Design	Clip Stuido, Photoshop, Illustrator, InDesign, SolidWorks, Ansys

REFERENCES

References available upon request.

SUMMARY

Hope to automate repetitive tasks that occur in the working process on manga and webtoon production using CNN or GAN. Know how to use a graphic tablet, and be interested in UX/UI and improvement of creative support tools for comic. My Goal is applying various backgrounds such as web design, 3D modeling, and cel shading to comic creation.

RESEARCH EXPERIENCE

Dec 2021 - Present
Expressive Computing Lab, UNIST
Research Intern (Advisor: Professor Kyungho Lee)

Study on AI-based Manga Production Support Tool Improvement. Built pipeline with SOTA models to take analog or digital rough sketches as input, pencil-style line drawing and automatic shading as output. **In Industry-academia Joint Research with LG H&H**, configurated image style transfer pipeline, created conda environment and handed over set-up manual.

Nov 2020 – Dec 2021
Service Eng. & Knowledge Discovery Lab, UNIST
AI Grad School Creative Autonomous Research Program

Development of Behavioral Data-based AI Model for Cat Arthritis Predictive. Research proposal was selected after school screening. Designed control experiment and fabricated measurement device. Preprocessed sensor-based cat behavioral weekly time-series data such as position, acceleration, and angular velocity.

TEACHING

Ulju The Dream Campus Mentoring Program
Head Mentor, HeXA *May - Dec 2021*
Basic Python and Algorithm Programming program
Head Mentor, UNITS *Sep - Dec 2021*
Let's Build Robot Arm using Arduino and 3D Printer program

EXTRACURRICULAR

HeXA, UNIST Programming and Security Society
President (Aug 2022-Present) *Sep 2020 - Present*

brAIns, UNIST Artificial Intelligence Society
Excutive Member (Mar 2022 - Present) *Jan 2021 - Present*

Last Updated: August 1, 2022