

Seonuk Kim

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INTERESTS	Manga, Webtoon, Design, Data Science, Artificial Intelligence
EDUCATION	<i>Undergraduate Student</i> Mar. 2020 – Present Ulsan National Institute of Science and Technology (UNIST) Ulsan, Korea <ul style="list-style-type: none">• Double major: Industrial Engineering, Design• Total GPA of 3.79 / 4.3 (3.73 / 4.0) during 4 semesters (78 credit) <i>High school Student</i> Mar. 2015 – Jan. 2019 Busan Science High School (BSS) Busan, Korea
PUBLICATIONS	<u>김선욱, 이경호.</u> (2022). 만화 제작 과정의 노동집약적 선화작업 효율화를 위한 AI의 창의적 이용에 관한 연구. 한국디자인학회 학술발표대회 논문집 (KSDS'22).
RESEARCH EXPERIENCE	<ul style="list-style-type: none">• Expressive Computing Laboratory Dec. 2021 – Present <i>Undergraduate Intern (Adviser: Professor Kyungho Lee)</i><ul style="list-style-type: none">– Study on manga production support technology/service using AI, focusing on sketch simplification– Industry-academia joint research about style-transfer on Printly, mini tattoo printer, with LG H&H• UNIST AIGS Creative Autonomous Research Nov. 2020 – Dec. 2021 <i>Researcher (Adviser: Professor Chiehyeon Lim)</i><ul style="list-style-type: none">– Development of model for predicting cat arthritis using behavioral data– Recruited cat owners and attaching sensors to cats to collect data
HONORS AND AWARDS	<ul style="list-style-type: none">• <i>Encouragement Prize, 2022 Spring DSUS, 2022</i> Host: Korea Society of Design Studies (KSDS)• <i>Excellent Prize, IEEE Quiz Contest KOREA, 2022</i> Host: IEEE, KITIS• <i>Silver Prize, UNIST-POSTECH-KAIST Datascience Competition, 2021</i> [Website] Host: UNIST, POSTECH, KAIST, SK Innovation, kakao enterprise / Organizer: Korea National Oil Corporation<ul style="list-style-type: none">– Predicted shale gas production and made purchase decisions• <i>Gold Prize, Lee Su-hyeon 20th Anniversary Book Review Contest, 2021</i> [Article] Host: Consulate-General of Japan in Busan• <i>Excellent Prize, Campus Patent Universiade, 2020</i> [Article] Host: Korean Intellectual Property Office (KIPO) / Organizer: Samsung Electronics <i>(Adviser: Professor Chiehyeon Lim)</i><ul style="list-style-type: none">– Smart refrigerator for personalized health management that provide the communication with trainer• <i>Korean Red Cross Presidential Award, Red Cross Youth Volunteer Field, 2015</i>
EXTRACURRICULAR ACTIVITIES	<ul style="list-style-type: none">• President Candidate, UNIST Undergrad Student Council Election Camp, <i>UV</i> [SNS] Feb. – Mar. 2022• Legal Support Team Member, UNIST Undergrad Student Council, <i>WE:TH U</i> Sep. 2021 – Feb. 2022• Administrator(2021, 2022), UNIST Programming Society, <i>HeXA</i> [News][Notion] Sep. 2020 – Present• Administrator(2022), UNIST AI Society, <i>brAins</i> [Blog][Notion][Github] Jan. 2021 – Present• Team Leader, Ulju The Dream Campus Mentoring Program, <i>UNITS & HeXA</i> Sep. 2021 – Present

EXTRACURRICULAR ACTIVITIES **Founder & Vice President(2018)**, Neuroscience Youth Society for Secondary School Students, *Korea Youth Society of Neuroscience (KYSN)* [[Blog](#)][[SNS](#)] Aug. 2017 – Feb. 2021
Founder & President(2017), BSS Neuroscience Society, *Neuro* Apr. 2017 – Jan. 2019
Regular Member, UNIST Arts Club, *Graphos* Sep. 2020 – Present
Regular Member, UNIST Volunteer Club, *Dan.B* Mar. 2021 – Present
Regular Member, Youth Volunteer Club, *Red Cross Youth (RCY)* Mar. 2013 – Jan. 2019

VOLUNTEER ACTIVITIES **Education Volunteer**, Education for middle school students in Ulju district at Ulju The Dream Campus Mentoring Program, *UNIST Leadership Center & Ulju District Office* Sep. 2021 – Dec. 2021
Education Volunteer, Naver Knowledge iN Education Donation Volunteer, *Korea Foundation for the Advancement of Science and Creativity (KOFAC)* Mar. 2020 – Present
Living Convenience Support, Assisted in cognitive therapy activities for the Elderly, *Daelim Welfare Center* Dec. 2017 – Aug. 2018
Other Volunteer, First Aid Training, Environmental Beautification, Blood Donation and Other Volunteer Activities, *Korean Red Cross* Mar. 2013 – Present

BOOKS 김선욱 외 8인 공저. “흔들리며 피다”. 「별이 탄생하는 순간」. 클레고 (2021). p133-166. [[url](#)]

OTHER PARTICIPATIONS • Korea University Student Industrial Engineering Project Competition Oct. 2021
Host: Korean Institute of Industrial Engineers (KIIE)
(Adviser: Professor Chiehyeon Lim)
– Searched for the optimal path for patrol robots for preventing industrial accidents in the manufacturing field
• Campus Patent Universiade, 2021 Apr. 2021 – Oct. 2021
Host: KIPO / **Organizer:** Electronics and Telecommunications Research Institute (ETRI)
(Adviser: Professor Chiehyeon Lim)
– Intelligent CCTV, patrol robot monitoring-based dangerous behavior recognition model, and solution to prevent industrial accidents
– Focused on blind spot prevention, accident type, manufacturing field

SKILLS • **Programming Languages:** Python, L^AT_EX
• **Python Libraries:** Pandas, Numpy, Scikit-learn, Tensorflow, Keras, Pytorch, Pycaret, etc.
• **Languages:** Korean (Native), English (Novice), Japaneses (Novice)
• **Tools:** Clip Studio, Photoshop, Illustrator, Indesign, SolidWorks

REFERENCES **Kyungho Lee**
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