Seon Gyeom Kim

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Education

KAIST (Korea Advanced Institute of Science and Technology**), South Korea**
Ph.D Candidate (Integrated M.S./Ph.D. Track), Industrial Design, Advisor: Professor Tak Yeon Lee
Aug 2021 - present

KAIST, South Korea
Bachelor of Science, Industrial Design(Major), Computer Science(Minor)
Feb 2015 - Aug 2021

Gyeonggi Science High School for the Gifted, South Korea
Feb 2012 - Feb 2015

Research

- *First Author*

Grounded Generation of Embellished Bar Chart Ensuring Chart Integrity
2025 IEEE Visualization and Visual Analytics (VIS '25) - Short Paper
Seon Gyeom Kim*, Jae Young Choi*, Phillip Y.Lee, Jaeryung Chung, Ryan Rossi, Jihyung Kil, Eunyee Koh, Tak Yeon Lee
Project Website: https://groundedchartgeneration.github.io/

Chart-to-Experience: Benchmarking Multimodal LLMs for Predicting Experiential Impact of Charts
🏆 **Best Paper Award** 2025 IEEE 18th Pacific Visualization Conference (PacificVis '25) - VisNotes
Seon Gyeom Kim, Jae Young Choi, Ryan Rossi, Eunyee Koh, Tak Yeon Lee
Project Website: https://chart2experience.github.io/

Understanding the Impact of Spatial Immersion in Web Data Stories
preprint
Seon Gyeom Kim, Juhyeong Park, Yutaek Song, Donggun Lee, Yubin Lee, Ryan Rossi, Jane Hoffswell, Eunyee Koh, Tak Yeon Lee
Project Website: https://immerwebds.github.io/

- *Co Authored*

Gaze2Prompt: Turning Eye-Tracking Data into Visual Prompts for Multimodal LLMs
🏆 **Best Poster Award** Companion of the 2025 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp '25)
Jae Young Choi, **Seon Gyeom Kim**, Jaywoong Jeong, Ryan Rossi, Jihyung Kil, Tak Yeon Lee

SKULPT Yourself: A Data-Driven Facial Reconstruction Pipeline
Workshop on WiCV at the 2025 IEEE Conference on Computer Vision and Pattern Recognition (WiCV@CVPR '25) - Extended Abstracts
Maidaa Aizaz*, Khadija Rajabova*, **Seon Gyeom Kim**, Tak Yeon Lee

WriteHere: Supporting Children's Creative Writing with AI-Infused Interactive 3D Environment
2025 CHI conference on Human Factors in Computing Systems (CHI '25) - Late Breaking Work
Jaeryung Chung, **Seon Gyeom Kim**, Tak Yeon Lee

Personalizing Data Delivery: Investigating User Characteristics and Enhancing LLM Predictions
Proceedings of the 2025 ACM Web Conference (WWW '25) - Short Paper
Reuben Luera, Ryan Rossi, Franck Dernoncourt, Alexa Siu, Sungchul Kim, Tong Yu, Ruiyi Zhang, Xiang Chen, Nedim Lipka, Zhehao Zhang, **Seon Gyeom Kim**, Tak Yeon Lee

LLM-Driven Learning Analytics Dashboard for Teachers in EFL Writing Education
preprint
Minsun Kim, **SeonGyeom Kim**, Suyoun Lee, Yoosang Yoon, Junho Myung, Haneul Yoo, Hyunseung Lim, Jieun Han, Yoonsu Kim, So-Yeon Ahn, Juho Kim, Alice Oh, Hwajung Hong, Tak Yeon Lee

Point & Select: Designing an Interaction Technique for Inputting Surrounding Point of Interests in Driving Context
preprint
Jaehoon Pyun, Younggeol Cho, **Seon Gyeom Kim**, Woohun Lee

Experience

Adobe Research, San Jose, CA
Intern - Research Scientist/Engineer (Mentor: Jane Hoffswell, Supervisor: Eunyee Koh)
Topic: Building a multi-agent system for web accessible data visualization
July 2025 - Sep 2025

Peer Review
IEEE Open Journal of the Computer Society
2025

Teaching Assistant, KAIST
Data Analytics for Designers, ID430
Fall 2021, Fall 2022
System Design, ID403
Spring 2022

Skills

Programming
Python, JavaScript (React, Three.JS)

Design Research
Empirical User Study Design and Web Prototyping (in-lab and crowdsourced)

DL/ML
Utilizing pre-trained models for inference-time strategies and multi-agent system

Visual Design
Figma, Adobe Illustrator

Languages

Korean Native

English Fluent