Kwon Ko

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About

Kwon is a Computer Science Ph.D. student at Stanford University, working with Shaul. His research focuses on learning how different regions of the human brain in both hemispheres interact during speech in different words, to better identify target areas for Brain-Computer Interfaces (BCIs) implantation. On a personal level, He developed research interest in the merge of human cognition with AI through BCIs, where humans themselves become the next platform.

He studied physics (BS, dropout), math (BS), industrial engineering (BS, minor), and computer science (MS). Now he is studying neuroscience (PhD). Previously, he served in the ROK Army and worked at broadcasting company, nonprofit organization, consulting firm, manufacturing company, big tech, and IT startup. He lives by his creed.

Education

2024 – present	**Stanford University**, Stanford, CA Ph.D. in Computer Science (Advisor: Dr. Shaul Druckmann) Research Topic: Brain-Computer Interface
2019 – 2021	**Seoul National University**, Seoul, Korea M.S. in Computer Science and Engineering (Advisor: Dr. Jinwook Seo) Research Topic: Human-Computer Interaction
2014 – 2019	**Hanyang University**, Seoul, Korea B.S. in Mathematics

Publications

CONFERENCE PROCEEDINGS

c8 — Kim, N. W., Ko, K., Myers, G., Bach, B. (2024).
ChatGPT in Data Visualization Education: A Student Perspective.
VL/HCC 2024. 12 pages. 33.3% acceptance rate (21/63).

c7 — Ko, K., Jeon, H., Park, G., Kim, D. H., Kim, N. W., Kim, J., Seo, J. (2024).
Natural Language Dataset Generation Framework for Visualizations Powered by Large Language Models.
CHI 2024. 22 pages. 26.3% acceptance rate (1,060/4,028).

c6 — Jeon, H., Cho, A., Jang, J., Lee, S., Hyun, J., Ko, K., Jo, J., Seo, J. (2023).
Zadu: A Python Library for Evaluating the Reliability of Dimensionality Reduction Embeddings.
VIS 2023. 5 pages. 33.7% acceptance rate (51/151).

c5 — Ko, K., Park, G., Jeon, H., Jo, J., Kim, J., Seo, J. (2023).
Large-scale Text-to-Image Generation Models for Visual Artists' Creative Works.
IUI 2023. 15 pages. 24.1% acceptance rate (66/274).

c4 — Ko, K.*, An, S.*, Park, G., Kim, S.K., Kim, D., Kim, B., Jo, J., Seo, J. (2022).
We-toon: A Communication Support System between Writers and Artists in Collaborative Webtoon Sketch Revision.
UIST 2022. 14 pages. 26.3% acceptance rate (98/372).

c3   Jeon, H.*, Ko, K.*, Lee, S., Jo, J., Seo, J. (2022).
Uniform Manifold Approximation with Two-phase Optimization.
VIS 2022. 5 pages. 31.7% acceptance rate (33/104).

c2   Jung, S., Choe, K., Park, S., Ko, K., Seo, J. (2021).
Mixed-Initiative Approach to Extract Data from Pictures of Medical Invoice.
PacificVis 2021. 5 pages. 43.3% acceptance rate (13/30).

c1   Ko, K., Jo, J., Seo, J. (2020).
Progressive Uniform Manifold Approximation and Projection.
EuroVis 2020. 5 pages. 45.7% acceptance rate (32/70).

Journal Articles

j3   Jeon, H., Aupetit, M., Lee, S., Ko, K., Kim, Y., Quadri, G. J., Seo, J. (2025).
Distortion-aware Brushing for Reliable Cluster Analysis in Multidimensional Projections.
TVCG (Journal Track). 18 pages.

j2   Jeon, H., Ko, K., Lee, S., Hyun, J., Yang, T., Go, G., Jo, J., Seo, J. (2025).
UMATO: Bridging Local and Global Structures for Reliable Visual Analytics with Dimensionality Reduction.
TVCG (Journal Track). 18 pages.

j1   Jeon, H., Ko, K., Jo, J., Kim, Y., Seo, J. (2021).
Measuring and Explaining the Inter-Cluster Reliability of Multidimensional Projections.
TVCG (VIS 2021). 12 pages. 24.9% acceptance rate (110/441).

Workshop Papers

w2   Ko, K., Jeon, H., Park, G., Kim, D. H., Kim, N. W., Kim, J., Seo, J. (2023).
A Vega-Lite Dataset and Natural Language Generation Pipeline with Large Language Models.
VIS 2023 NLVIZ Workshop: Exploring Research Opportunities for NL, Text, and Data Visualization.

w1   Ko, K., Son, K., Jin, H., Choi, Y., Chen, X. (2023).
Moderating Customer Inquiries and Responses to Alleviate Stress and Reduce Emotional Dissonance of Customer Service Representatives.
CHI 2023 Workshop on Generative AI and HCI.

Preprints & Publications in Progress

p1   Ko, K., Jin, H. (2025).
As we May Merge: Rise of the Human Platform.
Work in Progress.

* denotes equal contributions.

Experience

06/2025 – 09/2025	**Microsoft Research**, Redmond, WA Research Intern (w/ Dr. Nathalie Riche, Dr. Nic Marquardt)
05/2024 – 09/2024	**SkillWave, Inc.**, Remote Research Engineer (w/ Dr. Juho Kim, Dr. Matt Beane) (Client: OpenAI, BP plc)

Last updated: Dec 25, 2025

10/2023 – 07/2024	**DataMaze Lab (University of Michigan)**, Remote
	Researcher (w/ Dr. Eytan Adar, Dr. Eric Gilbert)
06/2022 – 11/2022	**KIXLAB (KAIST)**, Daejeon, Korea
	Researcher (w/ Dr. Juho Kim)
10/2021 – 06/2022	**Naver Webtoon Corp.**, Seongnam, Korea
	AI Researcher, Webtoon AI
04/2021 – 09/2021	**Naver Webtoon Corp.**, Seongnam, Korea
	AI Research Intern, Webtoon AI
03/2019 – 08/2019	**HCI Lab (Seoul National University)**, Seoul, Korea
	Research Intern (w/ Dr. Jinwook Seo)
01/2019 – 02/2019	**LG Electronics Inc.**, Seoul, Korea
	Research Intern, CTO Division
06/2018 – 08/2018	**Wesleyquest Inc.**, Seoul, Korea
	Research Associate

Honors and Awards

2025 – 2028	**MBCT Student Member** (Travel & Research funds, $ 1,500+ USD), Stanford University
2024	**Fulbright Scholarship** (Fellowship for Ph.D. studies), US & ROK Government
2023	**ACM Travel Grants** (Travel support for IUI '23, $980 USD), ACM SIGCHI
2022	**Gary Marsden Travel Awards** (Travel support for UIST '22, $2,800 USD), ACM SIGCHI
2018	**Big Data Contest** (3rd Place, $900 USD), NIA and Korea Big Data Forum
2018	**AI Novel Writing Competition** (2nd Place, $18,000 USD), KT Corporation and KOCCA
2014 – 2018	**Merit-based Scholarship** (6 semesters, 50% tuition), Hanyang University
2017	**Academic Research Competition** (2nd Place, $180 USD), Hanyang University

Invited Talks and Seminars

2. **Conducting 'Good' HCI Research by Asking Important Questions and Learning Together**
   - Seoul National University, HCI Lab. Seoul, Korea (Apr 2024)
   - Sungkyunkwan University, Interactive Data Computing Lab. Suwon, Korea (Mar 2024)
1. **Large-scale Text-to-Image Generation Models for Visual Artists' Creative Works**
   - Shandong University, Interactive Data Exploration System Lab. Online (Jan 2023)

Academic Services

PAPER REVIEWING	ACM CHI ('23–'26), UIST ('24), CHI LBW ('23, '25), C&C ('23)
	IEEE PacificVis ('20–'21)
STUDENT VOLUNTEERING	ACM UIST ('22), IUI ('23)

Press Coverage

Nov	2022	The Road to Becoming a Published Researcher, IEEE Computer Society
Aug	2018	Writing Novels on Its Own... AI Contests Human Creativity, KBS (Korean)