

# Kwon Ko

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## About

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Kwon Ko is a Computer Science Ph.D. student at Stanford University. He studied physics (BS, dropout), math (BS), industrial engineering (BS, minor), and computer science (MS). Currently he is studying neuroscience because he wants to know how brain works. Previously, he served in the ROK Army (21 months) and worked at broadcasting company (7 months), nonprofit organization (6 months), consulting firm (3 months), manufacturing company (2 months), big tech (15 months), and IT startup (5 months). He lives by [his creed](#).

## Education

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2024 – present	<b>Stanford University</b> , Stanford, CA Ph.D. in Computer Science
2019 – 2021	<b>Seoul National University</b> , Seoul, Korea M.S. in Computer Science and Engineering (Advisor: Dr. Jinwook Seo)
2014 – 2019	<b>Hanyang University</b> , Seoul, Korea B.S. in Mathematics

## Publications

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### 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

- 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 Jeon, H., Aupetit, M., Lee, S., Ko, K., Kim, Y., Seo, J. (2022).  
**Distortion-Aware Brushing for Interactive Cluster Analysis in Multidimensional Projections.**  
 Arxiv Preprint.

\* denotes equal contributions.

## Experience

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|-------------------|---|
| 05/2024 – 09/2024 | <b>SkillWave, Inc.</b> , Remote<br>Research Engineer (w/ Dr. Juho Kim, Dr. Matt Beane) (Client: OpenAI, BP plc) |
| 10/2023 – 07/2024 | <b>DataMaze Lab (University of Michigan)</b> , Remote<br>Researcher (w/ Dr. Eytan Adar, Dr. Eric Gilbert)       |
| 06/2022 – 11/2022 | <b>KIXLAB (KAIST)</b> , Daejeon, Korea<br>Researcher (w/ Dr. Juho Kim)  |
| 10/2021 – 06/2022 | <b>Naver Webtoon Corp.</b> , Seongnam, Korea<br>AI Researcher, Webtoon AI                                       |
| 04/2021 – 09/2021 | <b>Naver Webtoon Corp.</b> , Seongnam, Korea<br>AI Research Intern, Webtoon AI                                  |
| 03/2019 – 08/2019 | <b>HCI Lab (Seoul National University)</b> , Seoul, Korea<br>Research Intern (w/ Dr. Jinwook Seo)               |
| 01/2019 – 02/2019 | <b>LG Electronics Inc.</b> , Seoul, Korea<br>Research Intern, CTO Division                                      |

06/2018 – 08/2018      **Wesleyquest Inc.**, Seoul, Korea  
Research Associate

## Honors and Awards

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

## Invited Talks and Seminars

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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

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

## Press Coverage

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