www.hyungkwonko.info hyungkwonko@gmail.com

HYUNG-KWON KO

Interests

- Human-Computer Interaction, Human-Centered AI, Information Visualization
- Generative Models, Latent Manipulation, High-Dimensional Data

EDUCATION

• Seoul National University

M.S. in Computer Science and Engineering (Advisor: Prof. Jinwook Seo)

Seoul, Republic of Korea Sep 2019—Aug 2021

• Hanyang University

B.S. in Mathematics, Minor in Industrial Engineering

Seoul, Republic of Korea

Mar 2014—Aug 2019

PUBLICATIONS

• Peer-reviewed publications

- 5. **Hyung-Kwon Ko***, Subin An*, Gwanmo Park, Seung Kwon Kim, Daesik Kim, Bohyoung Kim, Jaemin Jo, Jinwook Seo, "We-toon: A Communication Support System between Writers and Artists in Collaborative Webtoon Sketch Revision," *Proceedings of the 35th ACM User Interface Software and Technology Symposium (UIST 2022)*, to appear.
- 4. Hyeon Jeon*, **Hyung-Kwon Ko***, Soohyun Lee, Jaemin Jo, Jinwook Seo, "Uniform Manifold Approximation with Two-phase Optimization," *Proceedings of IEEE VIS 2022 (Short)*, to appear.
- 3. Hyeon Jeon, **Hyung-Kwon Ko**, Jaemin Jo, Youngtaek Kim, and Jinwook Seo, "Measuring and Explaining the Inter-Cluster Reliability of Multidimensional Projections," *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, Vol. 28, No. 1, pp. 551-561, Jan. 2022.
- 2. Seokweon Jung, Kiroong Choe, Seokhyeon Park, **Hyung-Kwon Ko**, Youngtaek Kim, and Jinwook Seo, "Mixed-Initiative Approach to Extract Data from Pictures of Medical Invoice," *IEEE Pacific Visualization Symposium (Pacific Vis)*, pp. 111-115, 2021.
- 1. **Hyung-Kwon Ko**, Jaemin Jo, and Jinwook Seo, "Progressive Uniform Manifold Approximation and Projection," *Euro Vis 2020: Eurographics/IEEE-VGTC Symposium on Visualization*, pp. 133-137. 2020.

• Preprints & Publications in progress

- 3. Hyungyu Shin, Yoonjoo Lee, **Hyung-Kwon Ko**, Juho Kim, "Enabling Prototyping of AI-infused UIs with Task-level Specifications," (In Progress), 2022.
- 2. **Hyung-Kwon Ko**, Gwanmo Park, Hyeon Jeon, Jaemin Jo, Jinwook Seo, "Understanding the Expectation and Concern for Text-to-Image Generative Models," (In Progress), 2022.
- 1. Hyeon Jeon, Michael Aupetit, Soohyun Lee, **Hyung-Kwon Ko**, Youngtaek Kim, Jinwook Seo, "Distortion-Aware Brushing for Interactive Cluster Analysis in Multidimensional Projections," *arXiv* preprint arXiv:2201.06379 (Under Review), 2022.

EXPERIENCE

• KAIST Interaction Lab (KIXLAB)

Researcher (Advisor: Prof. Juho Kim)

Seongnam, Republic of Korea

Oct 2021—Jun 2022

Apr 2021—Aug 2021

Daejeon, Republic of Korea

Jun 2022—Present

Last updated: Aug 6, 2022

1 / 2

• Naver Webtoon Corp.

AI Research Scientist, Webtoon AI AI Research Intern, Webtoon AI ullet Human-Computer Interaction Lab

Research Intern (Advisor: Prof. Jinwook Seo)

Seoul, Republic of Korea

Mar 2019—Aug 2019

• LG Electronics

Research Intern, CTO division

Seoul, Republic of Korea Jan 2019—Feb 2019

• Wesleyquest Inc.

KT and KOCCA

Research Associate

Seoul, Republic of Korea Jun 2018—Aug 2018

AWARDS

• 3rd place in Big Contest

National Information Society Agency and Korea Bigdata Forum

Oct 2018

• 2nd Place in Artificial Intelligence Novel Competition

___

Aug 2018

• 2nd Place in Academical team research

Natural Science college of Hanyang University

Nov 2017

PROGRAMMING SKILLS

- Languages: Python (PyTorch), JavaScript (React, D3, Svelte), C/C++, R

- Technologies & Tools: Git, LATEX, Vim, AWS EC2

SERVICES & VOLUNTEER EXPERIENCE

• External reviewer

IEEE Pacific Vis (paper)

2020-2021

• The Actors Theatre Workshop

Nonprofit organization, Intern

New York, NY, USA Mar 2016—Aug 2016

• Republic of Korea Army

11th Division, Administrative Clerk

Gangwon, Republic of Korea

Jun 2011—Mar 2013

2 / 2

Last updated: Aug 6, 2022