

Kiroong Choe

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EDUCATION

Seoul National University,
Ph.D., Computer Science and Engineering
2020 – 2026, Seoul, Korea

Seoul National University,
M. Science, Computer Science and Engineering
2018 – 2020, Seoul, Korea
CGPA: 4.18/4.3

Seoul National University,
B. Science, Computer Science and Engineering
B. Arts, Psychology (Double Major)
summa cum laude
2013 – 2017, Seoul, Korea
CGPA: 4.19/4.3
CGPA: 4.0/4.3

AWARDS AND HONORS

Ph.D. Scholarship, Korea Foundation for Advanced Studies (KFAS) 2020
Excellent Degree Paper Award, Dept. of CSE, Seoul National University 2018
8th Place, ACM-ICPC Regional Contest, Daejeon 2016
7th Place, ACM-ICPC Regional Contest, Daejeon 2015
Undergraduate Scholarship, Kwanjeong Educational Foundation 2014

TEACHING

Boston College
Co-Instructor, Human-AI Interaction 2026
Seoul National University, Department of Computer Science and Engineering
Teaching Assistant, Human-Computer Interaction 2020
Teaching Assistant, Digital Computer Concept and Practice 2020
Teaching Assistant, Computer Programming 2019
Teaching Assistant, Discrete Mathematics 2018

PUBLICATIONS

CrossLit: Connecting Visual and Textual Sensemaking for Literature Review
Kiroong Choe, Eunhye Kim, Min Hyeong Kim, Suyeon Hwang, Sangwon Park, Nam Wook Kim, Jinwook Seo
ACM Conference on Human Factors in Computing Systems (ACM CHI 2026, Conditionally Accepted)

Good Fences Make Good Learning: How Self-Directed Language Learners Navigate LLM Delegation Decisions
Jiwon Song, Aeri Cho, Sihyeon Lee, Kiroong Choe, Jinwook Seo
ACM Conference on Human Factors in Computing Systems (ACM CHI 2026, Conditionally Accepted)

Towards More Explainable Nonlinear Dimensionality Reduction: A Feature-Driven Interaction Approach
Aeri Cho, Hyeon Jeon, Kiroong Choe, Seokhyeon Park, Jinwook Seo
IEEE Transactions on Visualization and Computer Graphics (IEEE TVCG 2025)

Asking Questions Matters: Comparing the Effect of Learning through

Dialogue with Peers, ChatGPT, and Intelligent Tutoring System

Ji Won Yang, Kiroong Choe, Jaeseo Lim, Jooyong Park

Interactive Learning Environments (2025)

Towards Interactive Chess Textbooks: Utilizing Human-Crafted Strategic Knowledge

Kiroong Choe, Soohyun Lee, Seokweon Jung, Jinwook Seo

CHI 2025 Workshop on Augmented Educators and AI: Shaping the Future of Human and AI Cooperation in Learning (ACM CHI 2025 Workshop)

Beyond Tools: Understanding How Heavy Users Integrate LLMs into Everyday Tasks and Decision-Making

Eunhye Kim, Kiroong Choe, Minju Yoo, Sadat Shams Chowdhury, Jinwook Seo

CHI 2025 Workshop on Tools for Thought: Research and Design for Understanding, Protecting, and Augmenting Human Cognition with Generative AI (ACM CHI 2025 Workshop)

Enhancing Data Literacy On-demand: LLMs as Guides for Novices in Chart Interpretation

Kiroong Choe, Chaerin Lee, Soohyun Lee, Jiwon Song, Aeri Cho, Nam Wook Kim, Jinwook Seo

IEEE Transactions on Visualization and Computer Graphics (IEEE TVCG 2024), also presented at *IEEE Visualization and Visual Analytics (IEEE VIS 2024)*

Fields, Bridges, and Foundations: How Researchers Browse Citation Network Visualizations

Kiroong Choe, Eunhye Kim, Sangwon Park, Jinwook Seo

IEEE Visualization and Visual Analytics (IEEE VIS 2024 Short)

Supporting Novice Researchers to Write Literature Review using Language Models

Kiroong Choe, Seokhyeon Park, Seokweon Jung, Hyeok Kim, Ji Won Yang, Hwajung Hong, Jinwook Seo

Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (ACM CHI EA 2024)

MoNetExplorer: A Visual Analytics System for Analyzing Dynamic Networks with Temporal Network Motifs

Seokweon Jung, DongHwa Shin, Hyeon Jeon, Kiroong Choe, Jinwook Seo

IEEE Transactions on Visualization and Computer Graphics (IEEE TVCG 2024), also presented at *IEEE Visualization and Visual Analytics (IEEE VIS 2024)*

Pregnancy Outcomes of Cerclage in Twin Gestations: a Multicenter Retrospective Cohort Study

Jee Yoon Park, Kyong-No Lee, Hyeon Ji Kim, Kiroong Choe, Aeri Cho, Bohyoung Kim, Jinwook Seo, Hayan Kwon, Jong Woon Kim, Jin-Gon Bae, Ji-Hee Sung, Se Jin Lee, Young Mi Jung, You Jung Han, Subeen Hong, Jin-Hoon Chung, Hye-Sung Won, Jong Kwan Jun

The Journal of Maternal-Fetal & Neonatal Medicine (2024)

Effects of Fetal Images Produced in Virtual Reality on Maternal-Fetal Attachment: Randomized Controlled Trial

Kyong-No Lee, Hyeon Ji Kim, Kiroong Choe, Aeri Cho, Bohyoung Kim, Jinwook Seo, Woojae Myung, Jee Yoon Park, Kyung Joon Oh

Journal of Medical Internet Research (2023)

Use of Continuous Infusion of Nicardipine to Control Persistent Postpartum Hypertension: A Retrospective Study

Min Kyung Kim*, Kiroong Choe*, Kyong-No Lee, Iseop Cho, Hyeon Ji Kim, Jee Yoon Park (* co-first authors)
Medicine (2022)

Association between Cesarean Section Rate and Maternal Age in Twin Pregnancies

Seongbeen Kim, Eunjin Song, Ye Hyon Park, Aeri Cho, Kiroong Choe, Hyeon Ji Kim, Jee Yoon Park, Bohyoung Kim, Kyung Joon Oh
Journal of Perinatal Medicine (2022)

Papers101: Supporting the Discovery Process in the Literature Review Workflow for Novice Researchers

Kiroong Choe, Seokweon Jung, Seokhyeon Park, Hwajung Hong, Jinwook Seo
IEEE Pacific Visualization Symposium (PacificVis 2021 Short)

A Mixed-Initiative Approach to Extract Data from Pictures of Medical Invoice

Seokweon Jung, Kiroong Choe, Seokhyeon Park, Hyung-Kwon Ko, Youngtaek Kim, Jinwook Seo
IEEE Pacific Visualization Symposium (PacificVis 2021 Short)

Interactive Visualization for Exploring Information Fragments in Software Repositories

Youngtaek Kim, Hyeon Jeon, Kiroong Choe, Hyunjo Song, Bohyoung Kim, Jinwook Seo
IEEE Pacific Visualization Symposium (PacificVis 2021 Poster)

SoundGlance: Briefing the Glanceable Cues of Web Pages for Screen Reader Users

Jaeyoon Song*, Kiroong Choe*, Jaemin Jo, Jinwook Seo (* co-first authors)
Extended Abstracts of the ACM Conference on Human Factors in Computing Systems (ACM CHI EA 2019)

Compatible 2D Table Navigation System for Visually Impaired Users

Kiroong Choe, Jinwook Seo
ACM International Conference on Interactive Surfaces and Spaces (ACM ISS 2019 Demo)

**RESEARCH
PROJECTS**

AI Integration in Enterprise Environments

LG Electronics Inc. Mar. 2024 – Dec. 2025
Investigated how AI can be integrated into real-world enterprise environments through intensive collaboration, including contextual inquiry, AI system design and deployment, and user studies

Medical Data Analysis and Visualization

Seoul National University Bundang Hospital 2022 – 2024
Analyzed complex and inconsistent medical record data; built unified data collection platform for a 10-hospital collaborative study; contributed features to a patient care application

Interactive Visualization Tools for Large-Scale Data

Naver Corporation May 2021 – Apr. 2023
Developed interactive visualization tools for exploration, analysis, and insight discovery of large-scale, high-dimensional data

Visual Analytics System for Electricity Prosumers

Korea Electric Power Corporation Jun. 2020 – Dec. 2020
Developed visual analytics system for electricity prosumers

Machine Learning-Based Visual Analysis System

LG Electronics Inc.

Apr. 2020 – Nov. 2020

Developed machine learning-based visual analysis system for efficient issue assignment

AI-based Optical Character Recognition (OCR) Algorithm

Kyobo Life Insurance Co., Ltd.

Oct. 2019 – Apr. 2020

Developed AI-based OCR algorithm for processing medical invoice pictures

**OTHER
PROJECTS**

ClassPrep: A Peer Review System for Class Preparation

Seoul National University, Department of Psychology

Dec. 2019 – Mar. 2020

Developer and Maintainer

Developed online forum with NLP-based plagiarism detection for educational support

Nalida: Self-Understanding Workshop

Feb. 2017 – Aug. 2019

Leading Member

Designed and led small-group workshops to facilitate self-reflection of university students

Supported by Institute for Global Social Responsibility (IGSR), Seoul National University

Partner of regional youth support program at Eunpyeong-gu and Dongjak-gu, Seoul