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	CGPA: 4.18/4.3	
2018 – 2020, Seoul, Korea		
Seoul National University,		
B. Science, Computer Science and Engineering	CGPA: 4.19/4.3	
B. Arts, Psychology (Double Major)	CGPA: 4.0/4.3	
summa cum laude		
2013 – 2017, Seoul, Korea		

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, Hyunjoo 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