

Seokhyeon Park

Postdoctoral Researcher

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CURRENT POSITION

Seoul National University

Seoul, Republic of Korea

Postdoctoral Researcher

Mar. 2026 - Present

HCI Lab, Institute of Computer Technology

Advisor: Jinwook Seo

EDUCATION

Seoul National University

Seoul, Republic of Korea

Ph.D. in Computer Science and Engineering

Mar. 2020 - Feb. 2026

HCI Lab, Department of Computer Science and Engineering

Advisor: Jinwook Seo

B.S. in Computer Science and Engineering

Mar. 2016 - Feb. 2020

B.A. in Information Science and Culture

Mar. 2018 - Feb. 2020

RESEARCH INTERESTS

Human-Computer Interaction

Computational UI Understanding

Human-AI Interaction

Interface Design

PUBLICATIONS

2026

Bridging Gulfs in UI Generation through Semantic Guidance

ACM CHI Conference on Human Factors in Computing Systems (CHI 2026)

Seokhyeon Park, Soohyun Lee, Eugene Choi, Hyunwoo Kim, Minkyu Kweon, Yumin Song, and Jinwook Seo

GhostUI: Unveiling Hidden Interactions in Mobile UI

ACM CHI Conference on Human Factors in Computing Systems (CHI 2026)

Minkyu Kweon, Seokhyeon Park, Soohyun Lee, You Been Lee, Jeongmin Rhee, and Jinwook Seo

Towards More Explainable Nonlinear Dimensionality Reduction: A Feature-Driven Interaction Approach

IEEE Transactions on Visualization and Computer Graphics (TVCG), 2026

Aeri Cho, Hyeon Jeon, Kiroong Choe, **Seokhyeon Park**, and Jinwook Seo

HookLens: Visual Analytics for Understanding React Hooks Structures

IEEE Pacific Visualization Conference (PacificVis 2026)

Suyeon Hwang, Minkyu Kwon, Jeongmin Rhee, Soohyun Lee, **Seokhyeon Park**, Seokweon Jung, Hyeon Jeon, and Jinwook Seo

2025

Leveraging Multimodal LLM for Inspirational User Interface Search

ACM CHI Conference on Human Factors in Computing Systems (CHI 2025)

Seokhyeon Park, Yumin Song, Soohyun Lee, Jaeyoung Kim, and Jinwook Seo

Measuring the Validity of Clustering Validation Datasets

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2025

Hyeon Jeon, Michaël Aupetit, DongHwa Shin, Aeri Cho, **Seokhyeon Park**, and Jinwook Seo

LIME & SHAP Explained: From Computation to Interpretation

8th Workshop on Visualization for AI Explainability (VISxAI) at IEEE VIS, 2025

Aeri Cho, Jeongmin Rhee, **Seokhyeon Park**, and Jinwook Seo

HookLens: Visual Analytics for Understanding React Hook Structures

IEEE Pacific Visualization Conference (PacificVis 2025) Poster

Suyeon Hwang, Minkyu Kwon, Jeongmin Rhee, Soohyun Lee, **Seokhyeon Park**, Seokweon Jung, Hyeon Jeon, and Jinwook Seo

2024

Supporting Novice Researchers to Write Literature Review using Language Models

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

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

Assessing Graphical Perception of Image Embedding Models using Channel Effectiveness

IEEE Visualization and Visual Analytics (VIS 2024) Short

Soohyun Lee, Minsuk Chang, **Seokhyeon Park**, and Jinwook Seo

Efficiently Crowdsourcing Visual Importance with Punch-Hole Annotation

IEEE Visualization and Visual Analytics (VIS 2024) Poster

Minsuk Chang, Soohyun Lee, Aeri Cho, Hyeon Jeon, **Seokhyeon Park**, Cindy Xiong Bearfield, and Jinwook Seo

Extracting Human Attention through Crowdsourced Patch Labeling

arXiv preprint, 2024

Minsuk Chang, **Seokhyeon Park**, Hyeon Jeon, Aeri Cho, Soohyun Lee, and Jinwook Seo

2023

Computational Approaches for App-to-App Retrieval and Design Consistency Check

AI & HCI Workshop at the 40th International Conference on Machine Learning (ICML 2023)

Seokhyeon Park*, Wonjae Kim*, Young-Ho Kim, and Jinwook Seo

Interactive Visual Analytics System for Criminal Intelligence Analysts with Multiple Coordinated Views

Journal of KIISE, 2023

Seokweon Jung, Donghwa Shin, Jinwook Bok, **Seokhyeon Park**, Hyeon Jeon, Jinwook Seo, Insoo Lee, and Sooyoung Park

2022

Sanity Check for External Clustering Validation Benchmarks using Internal Validation Measures

arXiv preprint, 2022

Hyeon Jeon, Michael Aupetit, DongHwa Shin, Aeri Cho, **Seokhyeon Park**, and Jinwook Seo

2021

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

IEEE Pacific Visualization Symposium (PacificVis 2021)

Kiroong Choe, Seokweon Jung, **Seokhyeon Park**, Hwajung Hong, and Jinwook Seo

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

IEEE Pacific Visualization Symposium (PacificVis 2021)

Seokweon Jung, Kiroong Choe, **Seokhyeon Park**, Hyung-Kwon Ko, Youngtaek Kim, and Jinwook Seo

EXPERIENCES

WORK

Seoul National University, Institute of Computing Technology

Mar. 2026 - Present

Postdoctoral Researcher

Naver Corporation

Feb. 2022 - Aug. 2022

Research Intern, Research on Computational UI Understanding

Kong Studios

Jun. 2018 - Aug. 2018

Software Engineer, Guardian Tales Client Development

RESEARCH PROJECTS

Research on AI-Driven Pose Extraction and Standard Work Time Estimation Dec. 2022 - Dec. 2023
Samsung Electronics Co., Ltd

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

Development of AI Learning Roadmap and Visualization Program Jun. 2021 - Jan. 2022
Brian Impact Foundation

Research on Intelligent Big Data Processing Technology May 2021 - Dec. 2021
Supreme Prosecutors' Office of the Republic of Korea

Advancement of digital evidence verification system and research and development of frontier technology Jun. 2020 - Dec. 2020
Supreme Prosecutors' Office of the Republic of Korea

Development of machine learning-based visual analysis system for efficient issue assignment Apr. 2020 - Nov. 2020
LG Electronics Inc.

AI-based Optical Character Recognition (OCR) Algorithm Oct. 2019 - Apr. 2020
Kyobo Life Insurance Co., Ltd.

OTHER PROJECTS

WaffleStudio 2017 - 2019
WaffleStudio BI Design / Siksha BI & UI Design

Project Rakun 2020
Web and Server Development

TEACHING ASSISTANT

Human-Computer Interaction Spring 2023
Department of Computer Science and Engineering, Seoul National University

Data Visualization, AutoML, and Explainable ML 2021 - 2025
Samsung Data Scientist Program, Seoul National University

Data Visualization

Woori Financial Group Data Expert, Seoul National University

Spring, Fall 2025

Data Analysis

Samsung AI Expert Program, Seoul National University

2021, 2022

Digital Computer Concept and Practice

Department of Computer Science and Engineering, Seoul National University

Fall 2020

CERTIFICATE

Industrial Engineer Information Processing

May 2018

SCHOLARSHIP & GRANTS

Sinyang Scholarship

Spring, Fall 2019

Google Student Travel Grants

CHI 2025 Travel Grants

2025