

Jeongwon Choi

choijw@postech.ac.kr | jjeong.one

 LinkedIn |  GitHub |  X/Twitter |  Bsky

Pohang, Korea

Summary

I am interested in how people can maintain a [sustainable daily life](#). To achieve a truly sustainable life, both inner sustainability of [individuals](#) and the sustainability of their [surrounding environment](#) should be ensured. With this perspective, I explore computing-driven interventions that help individuals and their surroundings become more sustainable. My research mainly focuses on environmental issues and personal well-being. I am currently in [HIS Lab](#) at [POSTECH](#), advised by Prof. [Inseok Hwang](#).

Education

Pohang University of Science and Technology (POSTECH) Ph.D. Student, Computer Science and Engineering	Feb 2023 - Current Pohang, Korea
Pohang University of Science and Technology (POSTECH) B.S., Computer Science and Engineering	Feb 2018 - Feb 2023 Pohang, Korea

Publications (Adjunct)

[A.3] Chameleon: A Surface-Anchored Smartphone AR Prototype with Visually Blended Mobile Display	2025
ACM Symposium on User Interface Software and Technology (UIST) Seungwon Yang, Suwon Yoon, Jeongwon Choi , Inseok Hwang	
[A.2] Chatperone: An LLM-Based Negotiable Scaffolding System for Mediating Adolescent Mobile Interactions	2025
ACM CHI Workshop: Mobile Technology and Teens Suwon Yoon, Seungwon Yang, Jeongwon Choi , Wonjeong Park, Inseok Hwang	
[A.1] VoiceCogs: Interlocking Concurrent Voices for Separable Processing	2023
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT) Jeongwon Choi , Inseok Hwang	

Projects

Interlocking Concurrent Voices for Separable Processing [A.1]	2022 - 2023
Ensuring universal accessibility to information cannot be overstated. Unlike visual readers, however, screen reader users are given inefficient and restricted channels to acquire the given information. In particular, we focus on the initial step of information acquisition – quickly scanning the overall structure of a textual document so that the reader makes an informed decision about where to jump and read the details. While this step is inherently quick for visual users, screen reader users passively listen to the slow, sequential list of items read aloud. To close this gap, we call for a technique that accelerates screen reader users' scanning process. Our system, VoiceCogs, takes multi-itemed text sources and synthesizes audio that concurrently plays multiple text-to-speech from a respective text source while facilitating the discernibility of individual sources. To this end, we devise and implement two interlocking techniques to minimize phonetic interferences between concurrent speeches.	

Academic Services

Reviewer; ACM CHI Case Study, ACM CHI Late Breaking Work	2025
Reviewer; ACM IMWUT	2024

Teaching Experience

TA; Human-Computer Interaction (HCI) POSTECH	Spring 2024
TA; Artificial Intelligence Basics POSTECH	Spring 2020, Fall 2020

Work Experience

Bagelcode

Jun 2020 - Jun 2021

Data scientist (Intern)

Seoul, Korea

- Designed and implemented Shepherd, a model for detecting anomalies in game metrics and KPIs.
- Developed automated alerting systems for tracking and monitoring company metrics, enabling rapid response to in-game issues.
- Defined user states and conducted user lifecycle analysis to extract insights.
- Identified in-game events to be tracked for new features, and designed corresponding data schemas.

Skills

- **Programming Languages:** C, C++, Python, JavaScript, TypeScript, Scala
- **Web Technologies:** React, NextJS, NestJS
- **Data Science & Machine Learning:** MySQL
- **Mobile Development:** Android, Flutter
- **Other Tools & Technologies:** Adobe Photoshop, Adobe Premiere Pro, Adobe Illustrator
- **Research Skills:** Interviews, Survey/Questionnaire design
- **Language:** Korean (native), English (fluent), Japanese (beginner)