Zofia Marciniak

email zosia.m.marciniak@gmail.com
portfolio zosia-hci.github.io
github github.com/zosiazamoyska

HCI Researcher

Connecting passion for technology and people through research in Human-Computer Interaction.
Interested in creating computational tools for making.

Skills & Tools

Design Methods	UX Research, User-Centered Design Methods, Affinity Diagram, Interactive Prototyping, Study and Workshop Moderation
Design Tools	Figma, Adobe Illustrator, front-end development Rhino, Grasshopper, Fusion 360 Arduino, Raspberry Pi, physical computing, 3D printing
Development	Python, C++, javascript, data structures, algorithms, git
Interpersonal	problem-solving, conflict resolution, team building
Language	English (fluent), Polish (fluent), Korean (intermediate)

Education

Master's Degree
Industrial Design (MS)
Korea Advanced Institute of Science and Technology
August 2023 - August 2025 (expected)

Bachelor's Degree
Industrial Design and Computer Science (BS)
Korea Advanced Institute of Science and Technology
September 2019 - August 2023

Work Experience

Software Engineering Intern
NoMagic nomagic.ai
June 2022 - September 2022
- Designed a restructure of Robot Arm main thread
- Implemented a new feature for a Robotic Arm in Pick-and-Place solution system
- Supervised deployment of the implemented feature

STEP Intern
Google
July 2021 - September 2021
- Developed a language parser for policy translation in Go

Research Experience

Research Assistant
MakeLab make.kaist.ac.kr
August 2023 - August 2025 (ongoing)
- Conducting research on digitalization opportunities in crafting experience for crocheters
- Building a hardware and software system support
- Participating in research project improving productivity in VR

Undergraduate Research Intern
MakeLab make.kaist.ac.kr
September 2022 - August 2023
- Co-authored a paper proposing fully 3D printed displays
- Developed a custom 3D printing slicer for parametrized texture
- Conducted a perception study on texture roughness perception
- Conducted a user study to qualitatively evaluate the slicer
- Wrote and published a short paper and journal article about texture slicing

Research Experience - continued

Undergraduate Research Intern
HCI Tech Lab hcitech.org
January 2022 - June 2022
- Received a university research funding to develop this research
- Designed a novel haptic interaction system
- Built an electromagnetic, finger-worn actuator
- Developed vibrotactile and force feedback drivers
- Researched and experimented on interaction types
- Published a poster at an international conference

Undergraduate Research Intern
CDSN Lab cds.kaist.ac.kr
July 2020 - December 2020
- Collected and analyzed data related to urban mobility
- Analyzed data to find correlation between weather and mobility
- Published and presented a paper at a local conference

Publications

CHI, 2024
top venue for HCI research
3D Printing Locally Activated Visual-Displays Embedded in 3D Objects via Electrically Conductive and Thermochromic Materials
Kongpyung (Justin) Moon, Zofia Marciniak, Ryo Suzuki, and Andrea Bianchi

AODR, 2024
Decoupling Geometry from Surface Finish by Parameterizing Texture Directly in G-code for Fused Deposition Modeling (FDM) Printing
Zofia Marciniak, Kongpyung Moon, and Andrea Bianchi

Korea HCI, 2023
3D Printing Slicer for Computational Texture Generation
Zofia Marciniak, Kongpyung Moon, and Andrea Bianchi

VRST, 2022
Guide Ring: Bidirectional Finger-worn Haptic Actuator for Rich Haptic Feedback (Poster)
Zofia Marciniak, Seo Young Oh, and Sang Ho Yoon

Korea HCI, 2021
Understanding the impact of the Weather on Human Mobility via LTE Access Traces in Seoul Districts
Zofia Marciniak, Sumin Han, and Dongman Lee

Awards/Achievements

iF Design Award, 2024
Evergrow: Investement Education Service
Mobile App: Professional Concept, Service Design Concept

URP, 2022
University Research Program
Electromagnetic haptic interface for robust interaction in metaverse platform