

# Sunyu Pang

Bridging humans and technology

📍 Seoul, Republic of Korea

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🌐 sunyupang.com

## EDUCATION

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### Seoul National University

Seoul, Republic of Korea

Mar 2025 - present

M.S in Artificial Intelligence (specialization in Human-Computer Interaction)

Advisor: Prof. Joonhwan Lee, Hajin Lim

### Ewha Womans University

Seoul, Republic of Korea

Mar 2020 - Feb 2025

B.E. in Computer Science and Engineering,

B.A. in History of Art

Honors: Summa Cum Laude (GPA: 4.11 / 4.3)

### École pour l'Informatique et les Techniques Avancées (EPITA)

Strasbourg, France

July 2024

Summer Program, Computer Science

### Technical University of Darmstadt

Darmstadt, Germany

Sep 2022 - Mar 2023

Exchange Student, Computer Science

## EXPERIENCE

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### Human-Computer Interaction + Design Lab, Seoul National University

Seoul, Republic of Korea

Mar 2025 - present

HCI Researcher

### 11STREET (Korean e-commerce platform serving millions of users)

Seoul, Republic of Korea

Sep 2024 - Dec 2024

AI Software Engineer (Internship)

- Collaborated with search product team to define requirements and evaluate AI-driven features
- Implemented a synonym dictionary leveraging LLM to enhance searching
- Developed an automated system to extract fashion product attributes

## PUBLICATION

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### InnerPond: Fostering Inter-Self Dialogue with a Multi-Agent Approach for Introspection

Hayeon Jeon, Dakyeom Ahn\*, Sunyu Pang\*, Yunseo Choi\*, Suhwoo Yoon, Joonhwan Lee, Eunmee Kim, Hajin Lim (\*co-second author)

In Proceedings of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26) (To appear)

### PromptPilot: Automatic Prompt Engineering Assistance for Improving AI-Generated Art Reflecting User Emotion

Hannah Kim\*, Hyun Lee\*, Sunyu Pang\*, and Uran Oh (\*co-first author)

In Proceedings of the 2024 IEEE International Conference on Information Reuse and Integration for Data Science (IRI '24)

### Localization as Cross-functional Collaboration: Uncovering Workflow and Breakdowns Behind Failures

Sora Kang, Sunyu Pang, Sieun Jeong, Hajin Lim

In Preparation

### ShortSpace: Supporting Self-Reflection through Visualizing Short-Form Media Consumption

Sunyu Pang\*, Yunseo Choi\*, Hyewon Cho\*, Hajin Lim (\*co-first author)

In Preparation

## PROJECT

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### Character based Conversational Agent for Alleviating Depression and Anxiety

with Bigglz (AI-based character platform startup)

- Designed therapy-informed conversational flows and user interfaces for mental wellness application
- Conducted data-driven UX research by analyzing survey data to validate the effectiveness of the conversational agent

### Fashion Captioning with BLIP Finetuning

- Explored human-centered fashion image captioning by fine-tuning a vision-language model to better reflect how people describe and understand fashion, improving accessibility and interpretability
- Assessed caption quality using BLEU, METEOR, and CIDEr to validate user-centered improvements in model performance

### AR Campus Quest: An Interactive Onboarding Experience for University Freshmen

- Designed an educational mobile AR RPG for university freshmen, using narrative-driven gameplay to support onboarding of campus buildings from a user engagement perspective
- Integrated Unity 3D, mobile AR, and Map API to connect physical campus spaces with digital interactions

## VOLUNTEERING

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Student Volunteer, ACM Symposium on User Interface Software and Technology

Sep 2025

Docent, Ewha Womans University Museum

Feb 2024 - Aug 2024

## HONORS AND AWARDS

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AI Fellowship Scholarship, Seoul National University

Mar 2025 - present

Student Research Scholarship, Ewha Womans University

Jun 2024

## SKILLS

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**Human-Centered Design** User study, Usability testing, Prototyping, Affinity diagram, Persona, User modeling, Contextual inquiry

**Quantitative Research** Experiment design, Survey, Statistical analysis (Python, R), System log analysis, Natural Language Processing and Machine Learning

**Qualitative Research** Interview, Qualitative data coding and analysis

**Programming** JavaScript/TypeScript, HTML/CSS, Python, C/C++, SQL

**Language** Korean (Native), English (Professional proficiency), French, German (Elementary proficiency)