

# Taewook Kim

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## Research Interests

Human-Computer Interaction, Human-AI Interaction, Creativity Support Tools, User Agency, Controllable AI Systems

## Education

<b>Northwestern University</b> , Evanston, IL	Sept. 2021 – Present
Ph.D., Computer Science and Communication Studies (GPA: 4.0/4.0)   Advisor: Matthew Kay	
<b>Hong Kong University of Science and Technology</b> , Hong Kong SAR	Sept. 2018 – Nov. 2020
M.Phil., Computer Science and Engineering   Advisor: Xiaojuan Ma	
<b>Hanyang University</b> , Seoul, South Korea	Mar. 2012 – Feb. 2018
B.S., Business Administration	Military Service: 2013 – 2015
B.S., Computer Science and Engineering	

## Industry Experience

<b>HCI Research Intern</b> at <b>Toyota Research Institute</b> , Los Altos, CA	Jun. 2025 - Sep. 2025
Mentor(s): Matthew Hong and Matt Klenk	
<ul style="list-style-type: none"><li>• Built <i>Personagram</i>, an end-to-end multimodal Vision-Language Model system for product design ideation.</li><li>• <b>Productization:</b> Currently being refactored for deployment to Toyota designers.</li><li>• <b>Patent:</b> Filed a patent for the underlying VLM architecture with the Toyota legal team.</li><li>• <b>Publication:</b> Submitted at <i>ACM CHI 2026</i>, a top-tier HCI academic conference.</li></ul>	
<b>Visiting Researcher</b> at <b>Accenture Labs</b> , San Francisco, CA	Jun. 2024 - Sept. 2024
Mentor(s): Manaswi Saha and Jordan Ackerman	
<ul style="list-style-type: none"><li>• Developed <i>Translider</i>, an applied AI system for translating complex scientific text into personalized language.</li><li>• <b>Productization:</b> Currently being refactored by internal engineers for deployment to consultants and clients.</li><li>• <b>Publication:</b> Published at <i>ACM CSCW 2025</i>, a top-tier HCI academic conference.</li></ul>	
<b>Visiting Researcher</b> at <b>Midjourney, Inc.</b> , San Francisco, CA	Mar. 2024 - Sept. 2024
Mentor(s): John Joon Young Chung and Max Kreminski	
<ul style="list-style-type: none"><li>• Developed <i>Reverger</i>, an end-to-end applied AI system for exploring story deviations.</li><li>• <b>Publication:</b> Submitted at <i>ACM CHI 2026</i>, a top-tier HCI academic conference.</li></ul>	

## Selected Publications

### **Personagram: Bridging Personas and Product Design to Support Creative Ideation**

Taewook Kim, Matthew Kay, and Members of Toyota Research Institute. *Preprint*

### **Reverger: Scaffolding Creative Idea Exploration through Divergence and Convergence**

Taewook Kim, Matthew Kay, and Members of Midjourney. *Preprint*

### **Steering AI-driven Personalization of Scientific Text for General Audiences**

Taewook Kim, Dhruv Agarwal, Jordan Ackerman, Manaswi Saha. *ACM CSCW 2025*

### **Authors' Values and Attitudes Towards AI-bridged Scalable Personalization of Creative Language Arts**

Taewook Kim, Hyomin Han, Eytan Adar, Matthew Kay, John Joon Young Chung. *ACM CHI 2024*

**Best Paper Honorable Mention (top 5% among 4,028 submissions)**

### **Opportunities in Mental Health Support for Informal Dementia Caregivers Suffering from Verbal Agitation**

Taewook Kim, Hyeok Kim, Angela C. Roberts, Maia Jacobs, Matthew Kay. *ACM CSCW 2024*

### **Love in Lyrics: An Exploration of Supporting Textual Manifestation of Affection in Social Messaging**

Taewook Kim, Jung Soo Lee, Zhenhui Peng, and Xiaojuan Ma. *ACM CSCW 2019*

## Skills

**Languages:** Python, TypeScript, JavaScript

**Web Development:** React, Next.js, Node.js, Express, Flask, Django, Ngrok