

# Ji Hyun Kim

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## RESEARCH INTERESTS

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Personal Health Informatics and Self-Tracking; Data-Driven and Human-Centered Computing for Health and Well-being; Mobile Sensing; Behavior Modeling.

## EDUCATION

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<b>University of Virginia</b> <i>Master's of Computer Science in Science and Engineering</i>	May 2025 GPA: 3.97/4.0
<b>Ewha Womans University</b> <i>B.A. in German Language and Literature and International Studies</i>	Aug 2021 GPA: 3.71/4.3

## RESEARCH EXPERIENCE

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<b>Human-AI Technology Lab, University of Virginia</b> <i>Research Assistant/M.S. Student (Advisor: Prof. Afsaneh Doryab)</i>	Jun. 2024–Present
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- Research Project: Social Walking
  - \* Designed and executed a multi-phase mixed-methods studies to examine how paired walking promotes physical activity and social connections among young adults.
  - \* Led a two-phase participatory design workshop and an extensive online survey to identify user needs and co-create features for co-walking mobile application.
  - \* Translated qualitative and quantitative findings into actionable items and contributed to defining core app features.
- Research Project: Digital Footprints
  - \* Conducted a pilot study on collecting personal digital history data and connecting them with participants' self reported emotional and physical states.
  - \* Contributed to prototyping an interactive dashboard to visualize temporal and spatial patterns using the collected data.
  - \* Explored how such dashboards can support reflection on daily routines, energy, and physical activity as a foundation for personal health informatics tool.

## INDUSTRY EXPERIENCE

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<b>Ipsos Korea   Customer Experience Department</b> <i>Sr. Research Executive/Research Executive/Research Intern</i>	Mar. 2021–May 2023
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- Conducted customer journey research combining quantitative surveys and qualitative interviews across electronics, automobile, and hospitality industries.
- Led UX investigations of online platforms (e.g., website, app, chat features) for a global electronics company, analyzing user behavior and sentiment to inform design improvements.
- Synthesized multi-country survey results into strategic insights and created client-facing presentations highlighting customer experience trends.
- Contributed to end-to-end study cycles, from client briefing and research design to final report delivery.
- Supported stakeholder decision-making by converting survey tables (Excel) into actionable suggestions and visualized slides.
- Analyzed customer feedback on post-purchase delivery and repair experience to identify service improvement areas.

## ACADEMIC PROJECTS

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- **Redesigning mHealth App (Human Computer Interaction)** : Redesigned privacy-information flows using context-sensitive UI elements and conducted UX testing showing improved user understanding.
- **Gesture-based musical glove (Engineering Interactive Technologies)** : Built sensor-driven glove to detect hand gestures and trigger musical output.
- **MNIST Classifier Evaluation (Machine Learning)** : Implemented and compared Decision Tree, Random Forest, and AdaBoost models on MNIST style datasets.
- **Short Text Sentiment Analysis (NLP)** : Built ML/BERT sentiment classifiers and analyzed cross-platform public comment trends.
- **Star Wars Script Text Analysis (Exploratory Text Analytics)** : Applied TF-IDF, PCA, LDA, and sentiment analysis to examine storyline and emotional patterns
- **Multi-Agent Systems for Behavior Modeling (Computational Behavior Modeling)** : Modified Token Passing algorithms and compared their performance with A\* and RL baselines in constrained pickup and delivery environments.

## SKILLS

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**Languages:** Python, SQL, Java, LATEX

**Libraries:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, NLTK, Gensim

**Tools:** Git, Jupyter, VS Code, Google Colab