

HYUNGGU JUNG

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RESEARCH INTERESTS

Artificial Intelligence (AI), Health Informatics, Human-AI Collaboration, Human-Computer Interaction, Accessibility & Aging, Social Computing, Precision Medicine, Explainable AI, Visual Analytics

EDUCATION

University of Washington School of Medicine Seattle, WA
Ph.D. in Biomedical and Health Informatics *Dec. 2017*

- Thesis: Creating a smartphone application for image-assisted dietary assessment among older adults with type 2 diabetes

Stanford University Stanford, CA
M.S. in Computer Science *June 2012*

- Specialized Area: Human-Computer Interaction

University of Waterloo Waterloo, ON Canada
M.Math in Computer Science *Aug. 2010*

- Thesis: Reasoning about benefits and costs of interaction with users in real-time decision making environments with application to healthcare scenarios

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea
B.S. in Computer Science with a minor in Business Economics *Aug. 2008*

PROFESSIONAL EXPERIENCE

Associate Professor, University of Seoul Seoul, Korea
Department of Artificial Intelligence *Sep. 2022 - present*
Department of Computer Science and Engineering *Sep. 2022 - present*

Assistant Professor, University of Seoul Seoul, Korea
Department of Artificial Intelligence *Aug. 2020 - Aug. 2022*
Department of Computer Science and Engineering *Sep. 2019 - Aug. 2022*

Assistant Professor, Kyung Hee University Yongin, Korea
Department of Software Convergence *Apr. 2018 - Aug. 2019*

Predoctoral Research Associate, University of Washington Seattle, WA
Department of Radiation Oncology *Oct. 2017 - Dec. 2017*

- Developed probabilistic-based systems designed to perform automated quality assurance checks on radiation therapy plans
- Advisor: Dr. Alan Kalet

Department of Human Centered Design and Engineering *Sep. 2016 - Sep. 2017*

- Developed the system that supports theoretical models for computer-supported cooperative work
- Advisors: Drs. Mark R. Zachry and David W. McDonald

Department of Biomedical Informatics and Medical Education *Sep. 2014 - Aug. 2016*

- Developed a Markov chain model for the prediction of head and neck squamous cell carcinoma dissemination
- Advisor: Dr. Mark M. Whipple

Research Intern, PARC, a Xerox Company Palo Alto, CA
Computer Science Laboratory *June 2015 - Sep. 2015*

- Developed and evaluated contextual intelligence (CI) technology using text classification and information extraction to support rules for facilitating peer-to-peer exchanges

- Advisor: Dr. Victoria Bellotti

Research Assistant, University of Washington*Institute of Translational Health Sciences*

Seattle, WA

July 2014 - Sep. 2014

- Developed an interactive demographic visualization of multiple facilities across time. Led the design studio for redesigning a data-profiling tool gathering and presenting distributed data
- Advisor: Dr. Kari A. Stephens

*Center for Game Science**Oct. 2013 - June 2014*

- Developed a visual analytics tool for discovering and analyzing raw data. Developed a tool for grading equations by crowdsourcing through Amazon Mechanical Turk
- Advisor: Christy Ballweber

Research Intern, Microsoft Research*Natural Interaction Research Group*

Redmond, WA

June 2013 - Sep. 2013

- Developed a visual analytics tool for assessing attention during lectures and presentations. Conducted a user interface evaluation of the tool
- Advisor: Dr. Shamsi Iqbal

Research Assistant, University of Washington*Health-E Research Group*

Seattle, WA

Sep. 2012 - June 2013

- Conducted systematic literature review on technologies for health behavior change. Designed prototypes for an interface summarizing mobility information and creating prompts or messages promoting health behavior change
- Advisor: Dr. George Demiris

Research Assistant, Stanford University*Stanford HCI Group*

Stanford, CA

Oct. 2011 - Dec. 2011

- Developed a mobile application to encourage people to increase physical activity. Gathered raw data from users and transferred them to the database
- Advisor: Dr. Scott Klemmer

*Stanford Center for Biomedical Informatics Research**Sep. 2010 - Aug. 2011*

- Developed a tool generating a consolidated guideline for physicians as part of GLINDA project
- Advisor: Dr. Mark A. Musen

Research Assistant, University of Waterloo*Artificial Intelligence Research Group*

Waterloo, ON Canada

Sep. 2008 - Aug. 2010

- Developed an algorithm modeling a communication and information system for emergency medical staff, focusing on finding the right doctor in hospital emergency settings with real-time aspects and dynamic environments
- Advisor: Dr. Robin Cohen

Unix Consultant, University of Waterloo*Math Faculty Computing Facility (MFCF) Help Center*

Waterloo, ON Canada

May 2009 - Apr. 2010

- Provided support to undergraduate students, graduate students and professors to use Waterloo's computer infrastructure by responding to questions in a help-desk environment

Software Engineer, Brainzsquare, Inc.*Division of Desktop Management System*

Seoul, Korea

Dec. 2005 - Feb. 2006

- Developed a solution for desktop management system to control remote users' machines with Visual C++ at the IT infra-management firm

Military Service, Republic of Korea Fire and Disaster Department*Seobu Station*

Seoul, Korea

June 2003 - Sep. 2005

- Designed a fire-training simulation using a 3D Virtual Reality technique, while working for call-receiving service for 119 Rescue and First-aid Service

GRANTS, AWARDS & HONORS

- 2023 -2025 **Development of a Poisoning Attack Visualization Framework for Fair Artificial Intelligence supported by University of Seoul**
Principle Investigator, 40,000,000 KRW (20,000,000 KRW/year for 2 years)

- 2024 Development of Large Language Model-based Alternative Text Generation Technology to Improve Accessibility to Information for People with Visual Impairments supported by Seoul Metropolitan Government**
Principle Investigator, 7,500,000 KRW
- 2024 Best Paper Award**
100,000 KRW award, HCI Korea 2024
- 2023 Development of Generative AI-powered Alternative Text Generation to Help People with Visual Impairments Search for Photos supported by University of Seoul**
Principle Investigator, 19,000,000 KRW
- 2023 Young Scientist Presentation Award**
100,000 KRW award, The Korean Society of Community Nutrition
- 2020-2023 Development of an AI-based Dietary Assessment System for Digital Therapeutics to Support Older Adults with Diabetes supported by National Research Foundation of Korea (NRF) grant funded by the Korea government (MSIT)**
Principle Investigator, 90,000,000 KRW (30,000,000 KRW/year for 3 years)
- 2022 Development of AI-based Technology for Improving Accessibility to Information for People with Visual Impairments supported by Seoul Metropolitan Government**
Principle Investigator, 9,000,000 KRW
- 2021 Development of Technology for Quantifying Web Accessibility Based on Big Data to Improve Accessibility to Information for People with Visual Impairments supported by Seoul Metropolitan Government**
Principle Investigator, 9,000,000 KRW
- 2018-2019 MR-IoT Convergence Disaster Response AI Research supported by Information Technology Research Center (ITRC)**
Co-Investigator, 591,900,000 KRW
- 2018-2019 Development of a Smartphone Application for Dietary Assessment supported by Kyung Hee University**
Principle Investigator, 20,000,000 KRW
- 2016, 2014 Graduate School Fund for Excellence and Innovation (GSFEI) Travel Awards**
\$300 award/travel for attending AMIA 2014 and AMIA 2016, respectively
- 2016 National Science Foundation (NSF) Student Travel Grant**
\$1,000 travel grant for attending ICHI 2016
- 2015 Korean-American Scientists and Engineers Association (KSEA) & Korea-U.S. Science Cooperation Center (KUSCO) Scholarship**
\$1,000 award for academic excellence to Korean students
- 2014 The Korean Computer Scientists and Engineers Association Scholarship**
\$200 award for academic excellence to Korean students in computer science and engineering
- 2014 Graduate and Professional Student Senate (GPSS) Travel Grants Program**
\$300 travel grant for attending AMIA 2014
- 2012-2014 Korean Government Scholarship**
Scholarship (\$31,000/year, for 2 years) awarded for tuition and stipend for Ph.D studies
- 2012 Mogam Science Scholarship**
\$10,000 award for stipend for Ph.D studies
- 2012 Best Project Award**
1st prize on CS247 Interaction Design Studio, Stanford University
- 2012 Outstanding Award**
\$325 award, Stanford Opportunity Job Fair Research
- 2012 Canadian AI Travel Grant**
\$250 travel grant for attending Canadian AI 2010
- 2008 Mathematics Graduate Experience Award**

- 2010 \$1,000 award/term for 2 years, University of Waterloo
- 2008 **International Masters Student Award**
- 2010 \$1,550 award/term for 2 years, University of Waterloo
- 2008 **Humanity Scholarship**
\$1,000 award, KAIST
- 2006 **Undergraduate Research Assistantships (URA) Program**
- 2007 Research with a faculty member as an undergraduate research assistant, University of Waterloo
- 2006 **Overseas Study Program Scholarship**
Half tuition fee for summer session at UCSD
- 2006 **Undergraduate Research Participation (URP) Program**
\$500 award, KAIST
- 2006, **Chae-San Scholarship**
- 2003 Scholarship for exemplary computer science students

PUBLICATIONS

INTERNATIONAL JOURNAL PAPERS

- [j.18] Lee J, Gwak S, Gwon J, Park J, Eom S, Hong S, Ku G, Lee W, **Jung H**. “Exploring the community of older adult viewers on YouTube”. *Universal Access in the Information Society*. November 2023. DOI:10.1007/s10209-022-00918-3 (**Corresponding author**) [**SSCI/SCIE**].
- [j.17] Na S, Park S, Jun J, Jeong H, Yoo T, Chun M, Lee H, Lee H, **Jung H**. “SUV: Students Understanding Visualizer to Support Instructors in Synchronous Online Lectures”. *IEEE Access*. August 2023. DOI:10.1109/ACCESS.2023.3303030 (**Corresponding author**) [**SCIE**].
- [j.16] Park S, Lee H, Kwon M, Jung H, **Jung H**. “Understanding Experiences of Older Adults in Virtual Reality Environments with a Subway Fire Disaster Scenario”. *Universal Access in the Information Society*. August 2023. DOI:10.1007/s10209-022-00878-8 (**Corresponding author**) [**SSCI/SCIE**].
- [j.15] Jung J, Lee H, **Jung H**, Kim H. “Essential properties and explanation effectiveness of explainable artificial intelligence in healthcare: A systematic review”. *Heliyon*. May 2023. DOI:10.1016/j.heliyon.2023.e16110. PMID:37234618. [**SSCI/SCIE**].
- [j.14] Chun M, Jeong H, Lee H, Yoo T, **Jung H**. “Development of Korean Food Image Classification Model Using Public Food Image Dataset and Deep Learning Methods”. *IEEE Access*. December 2022. DOI:10.1109/ACCESS.2022.3227796 (**Corresponding author**) [**SCIE**].
- [j.13] Peltonen LM, Nibber R, Block L, Ronquillo C, Perezmitre EL, Lewis A, Alhuwail D, Ali S, Georgsson M, Jeon E, Tayaben JL, Lee YL, Kuo CH, Shu SH, Hsu H, Sommer J, Sarmiento RFR, **Jung H**, Eler GJ, Badger MK, Zhao R, Zhou T, Deforest H, Atique S, Topaz M, Pruinelli L. “Nursing Informatics Research Trends: Findings from an International Survey”. *Studies in Health Technology and Informatics*. December 2021. DOI:10.3233/SHTI210741. PMID:34920543.
- [j.12] Na S, **Jung H**. “Exploring University Instructors Challenges in Online Teaching and Design Opportunities during the COVID-19 Pandemic: A Systematic Review”. *International Journal of Learning, Teaching and Educational Research*. 2021 Oct 8;20(9). October 2021. DOI:10.26803/ijlter.20.9.18 (**Corresponding author**).
- [j.11] Park S, Jung H, Choi J, Jun J, Chun M, **Jung H**. “Exploring the Experiences of Student Volunteer and Student Volunteer Chair Communities at Academic Conferences”. *Proceedings of the ACM on Human-Computer Interaction*, 5(CSCW2). October 2021. DOI:10.1145/3479599 (**Corresponding author**). [**BKCSA040 IF=3**]
- [j.10] Jun J, Seo W, Park J, Park S, **Jung H**. “Exploring the Experiences of Streamers with Visual Impairments”. *Proceedings of the ACM on Human-Computer Interaction*, 5(CSCW2). October 2021. DOI:10.1145/3476038 (**Corresponding author**). [**BKCSA040 IF=3**]

- [j.9] Seo W, **Jung H**. “Challenges and Opportunities to Improve the Accessibility of YouTube for People with Visual Impairments as Content Creators”. *Universal Access in the Information Society*. February 2021. DOI:10.1007/s10209-019-00706-6 (**Corresponding author**) [**SSCI/SCIE**].
- [j.8] **Jung H**, Demiris G, Tarczy-Hornoch P, Zachry M. “Development and Usability Assessment of a Food Record App for Dietary Assessments among Older Adults with Type 2 Diabetes”. *JMIR Formative Research*. February 2021. DOI:10.2196/14760 (**Corresponding author**) [**SCOPUS**].
- [j.7] Seo W, **Jung H**. “Understanding the Community of Blind or Visually Impaired Vloggers on YouTube”. *Universal Access in the Information Society*. January 2020. DOI:10.1007/s10209-019-00706-6 (**Corresponding author**) [**SSCI/SCIE**].
- [j.6] Peltonen LM, Pruinelli L, Ronquillo C, Raji N, Lozada Peresmitre E, Lorraine B, Topaz M, Haley D, Lewis A, Alhuwail D, Ali S, Badger MK, Eler GJ, Georgsson M, Islam T, Jeon E, **Jung H**, Kuo C, Sarmiento RF, Sommer J, Tayaben JL, “The Current State of Nursing Informatics: An International Cross-sectional Survey”. *Finnish Journal of eHealth and eWelfare*. 11(3), 220-231, May 2019. DOI:10.23996/fjhw.77584
- [j.5] Han K, **Jung H**, Jang J, Lee D. “Understanding Users Privacy Attitudes through Subjective and Objective Assessments: An Instagram Case Study”. *IEEE Computer*. 51(6):18-28, June 2018. DOI:10.1109/MC.2018.2701648 [**SCI**].
- [j.4] Peltonen LM, Alhuwail D, Ali S, Badger MK, Eler GJ, Georgsson M, Islam T, Jeon E, **Jung H**, Kuo CH, Lewis A, Pruinelli L, Ronquillo C, Sarmiento RF, Sommer J, Tayaben JL, Topaz M. “Current Trends in Nursing Informatics: Results of an International Survey”. *Studies in Health Technology and Informatics*. 2016;225:938-9, June 2016. PMID: 27332419.
- [j.3] Peltonen LM, Topaz M, Ronquillo C, Pruinelli L, Sarmiento RF, Badger MK, Ali S, Lewis A, Georgsson M, Jeon E, Tayaben JL, Kuo CH, Islam T, Sommer J, **Jung H**, Eler GJ, Alhuwail D. “Nursing Informatics Research Priorities for the Future: Recommendations from an International Survey”. *Studies in Health Technology and Informatics*. 2016;225:222-6, June 2016. PMID: 27332195. (**Nominated for the best scientific paper top ten award list**)
- [j.2] Topaz M, Ronquillo C, Peltonen LM, Pruinelli L, Sarmiento RF, Badger MK, Ali S, Lewis A, Georgsson M, Jeon E, Tayaben JL, Kuo CH, Islam T, Sommer J, **Jung H**, Eler GJ, Alhuwail D. “Advancing Nursing Informatics in the Next Decade: Recommendations from an International Survey”. *Studies in Health Technology and Informatics*. 2016;225:123-7, June 2016. PMID: 27332175.
- [j.1] Cohen R, **Jung H**, Fleming M, Cheng MYK. “A User Modeling Approach for Reasoning about Interaction Sensitive to Bother and Its Application to Hospital Decision Scenarios”. *Special Issue on Personalization in e-Health User Modeling and User-Adapted Interaction (UMUAI): Volume 21, Issue 4 (2011)*, pp. 441-484, October 2011. DOI:10.1007/s11257-010-9091-3 (**Corresponding author**) [**SCIE**].

INTERNATIONAL CONFERENCE PAPERS

- [c.17] Seo W, Jun J, Chun M, Jeong H, Na S, Cho W, Kim S, **Jung H**. “Toward an AI-assisted Assessment Tool to Support Online Art Therapy Practices: A Pilot Study”. In *Proceedings of 20th European Conference on Computer-Supported Cooperative Work*, Coimbra, Portugal, June 2022. DOI:10.48340/ecscw2022_ep04
- [c.16] Chun M, Gwak S, **Jung H**. “CO-ALERT: A Tool for Personalizing COVID-19 Emergency Alert Messages to Support Older Adults”. In *Proceedings of the 2021 Symposium on Emerging Research from Asia and on Asian Contexts and Cultures (AsianCHI'21)*. ACM, Virtual Event, May 2021. DOI:10.1145/3429360.3468189
- [c.15] Park S, Kim G, **Jung H**. “Challenges and Opportunities for Accessible Seoul Metropolitan Buses: an Interview Study of People with Visual Impairments”. In *Proceedings of the 2020 Symposium on Emerging Research from Asia and on Asian Contexts and Cultures (AsianCHI'20)*. ACM, Honolulu, HI, USA, April 2020. DOI:10.1145/3391203.3391209
- [c.14] Lee W, Kwon M, Hyun Y, Lee J, Gwon J, **Jung H**. “Uncovering CHI Reviewers Needs and Barriers”. In *Proceedings of the 2020 Symposium on Emerging Research from Asia and on Asian Contexts and Cultures (AsianCHI'20)*. ACM, Honolulu, HI, USA, April 2020. DOI:10.1145/3391203.3391218

- [c.13] Lee J, Kim J, Lee W, **Jung H**. “Challenges and Design Opportunities for Easy, Economical, and Accessible Offline Shoppers with Visual Impairments”. In *Proceedings of the 2020 Symposium on Emerging Research from Asia and on Asian Contexts and Cultures (AsianCHI 20)*. ACM, Honolulu, HI, USA, April 2020. DOI:10.1145/3391203.3391223
- [c.12] Kwon M, Lee J, Lee W, **Jung H**. “BYE-TAL: Designing a Smartphone App for Sustainable Self-Healthcare through a Design Thinking Process”. In *Proceedings of the 2020 Symposium on Emerging Research from Asia and on Asian Contexts and Cultures (AsianCHI'20)*. ACM, Honolulu, HI, USA, April 2020. DOI:10.1145/3391203.3391204
- [c.11] Gwon J, Kwon M, **Jung H**. “Analyzing Bias of Comments on Political News Articles to Facilitate Transparent Online Communities”. In *Proceedings of the 2020 Symposium on Emerging Research from Asia and on Asian Contexts and Cultures (AsianCHI'20)*. ACM, Honolulu, HI, USA, April 2020. DOI:10.1145/3391203.3391216
- [c.10] Jung H, **Jung H**. “Evaluation of Mobile Applications for Disaster Responses through Personas and Scenarios”. In *Proceedings of Asian CHI Symposium: Emerging HCI Research Collection at CHI'19*, Glasgow, UK, May 2019.
- [c.9] Abdulwahhab O, **Jung H**. “Designing Community of Practice Systems: a Value Sensitive Approach”. In *the IEEE International Conference on Informatics, Health, & Technology (pp. 1-7)*, Riyadh, Saudi Arabia, February 2017. DOI:10.1109/ICIHT.2017.7899005
- [c.8] **Jung H**, Law A, Grunblatt E, Wang LL, Kusano A, Mejino Jr. JLV, Whipple ME. “Development of a Novel Markov Chain Model for the Prediction of Head and Neck Squamous Cell Carcinoma Dissemination”. In *AMIA Annual Symposium Proceedings. American Medical Informatics Association*, 2016 Nov;2016:1832-39, Chicago, IL, November 2016. PMID:28269942.
- [c.7] Topaz M, Ronquillo C, Peltonen LM, Pruinelli L, Sarmiento RF, Badger MK, Ali S, Lewis A, Georgsson M, Jeon E, Tayaben JL, Kuo CH, Islam T, Sommer J, **Jung H**, Eler GJ, Alhuwail D, Lee YL. “Nurse Informaticians Report Low Satisfaction and Multi-level Concerns with Electronic Health Records: Results from an International Survey”. In *AMIA Annual Symposium Proceedings. American Medical Informatics Association*, 2016 Nov;2016:2016-25, Chicago, IL, November 2016. PMID:28269961. **(Nominated for the best paper top)**
- [c.6] **Jung H**, Bellotti V, Doryab A, Leitersdorf D, Chen J, Hanrahan B, Lee S, Turner D, Dey A, Carroll JM. “‘MASTERful’ Matchmaking in Service Transactions: Inferred Abilities, Needs and Interests versus Activity Histories”. In *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (pp. 1644-1655)*. Association for Computing Machinery (ACM), San Jose, CA, May 2016. DOI:10.1145/2858036.2858263 **[Acceptance rate: 23% (565/2435)]**
[BKCSA003 IF=4]
- [c.5] Wang LL, Grunblatt E, **Jung H**, Kalet IJ, Whipple ME. “Biological Model Development as an Opportunity to Provide Content Auditing for the Foundational Model of Anatomy Ontology”. In *AMIA Annual Symposium Proceedings. American Medical Informatics Association*. 2015 Nov 5;2015:2111-20, San Francisco, CA, November 2015. PMID:26958311
- [c.4] **Jung H**, Hong SR, Meas P, Zachry M. “Designing Tools to Support Advanced Users in New Forms of Social Media Interaction”. In *Proceedings of the 33rd Annual International Conference on the Design of Communication (SIGDOC '15) Article 34*. ACM, Limerick, Ireland, July 2015. DOI:10.1145/2775441.2775462
- [c.3] Stephens KA, Lee ES, Estiri H, **Jung H**. “Examining Researcher Needs and Barriers for using Electronic Health Data for Translational Research”. In *AMIA Joint Summits Translational Science Proceedings. American Medical Informatics Association*. 2015 Mar 25;2015:168-72, San Francisco, CA, March 2015. PMID:26306262.
- [c.2] Estiri H, Chan YF, Baldwin LM, **Jung H**, Cole A, Stephens KA. “Visualizing Anomalies in Electronic Health Record Data: The Variability Explorer Tool”. In *AMIA Joint Summits Translational Science Proceedings. American Medical Informatics Association*. 2015 Mar 25;2015:56-60, San Francisco, CA, March 2015. PMID:26306237.
- [c.1] **Jung H**, Cohen R. “A Model for Reasoning about Interaction with Users in Dynamic, Time Critical Environments for the Application of Hospital Decision Making”. In *Advances in Artificial Intelligence: 23rd Canadian Conference on Artificial Intelligence, Canadian AI 2010*, Ottawa, Canada, May 31-June 2, 2010, Proceedings 2010 May 12 (Vol. 6085, pp. 319-323). Springer. DOI:10.1007/978-3-642-13059-5_37

INTERNATIONAL CONFERENCE PAPERS (EXTENDED ABSTRACT)

- [e.30] **Jung H**, Seo W, Song S, Na S. “Toward Value Scenario Generation Through Large Language Models”. In *Proceedings of the 2023 Conference on Computer Supported Cooperative Work and Social Computing (CSCW’23)*. ACM, Minneapolis, MN, October 2023. DOI:10.1145/3584931.3606960 [BKCSA040 IF=3]
- [e.29] Yoo T, Lee H, Oh S, Kwon H, **Jung H**. “Visualizing the Carbon Intensity of Machine Learning Inference for Image Analysis on TensorFlow Hub”. In *Proceedings of the 2023 Conference on Computer Supported Cooperative Work and Social Computing (CSCW’23)*. ACM, Minneapolis, MN, October 2023. DOI:10.1145/3584931.3606959 [BKCSA040 IF=3]
- [e.28] Oh S, Lee H, Han J, **Jung H**. “Toward Model Selection Through Measuring Dataset Similarity on TensorFlow Hubs”. *ICML 2023 Workshop on Artificial Intelligence and Human-Computer Interaction (ICML’23)*. Honolulu, HI, July 2023.
- [e.27] Lee H, Oh S, Han J, **Jung H**. “Creating a Bias-Free Dataset of Food Delivery App Reviews with Data Poisoning Attacks”. *ICML 2023 Workshop on Artificial Intelligence and Human-Computer Interaction (ICML’23)*. Honolulu, HI, July 2023.
- [e.26] Jeong H, Chun M, Lee H, Oh S, **Jung H**. “WATAA: Web Alternative Text Authoring Assistant for Improving Web Content Accessibility”. In *Proceedings of the 28th International Conference on Intelligent User Interfaces (IUI’23)*. ACM, Sydney, March 2023. DOI:10.1145/3581754.3584127
- [e.25] Lee H, Chun M, **Jung H**. “PORDE: Explaining Data Poisoning Attacks Through Visual Analytics with Food Delivery App Reviews”. In *Proceedings of the 28th International Conference on Intelligent User Interfaces (IUI’23)*. ACM, Sydney, March 2023. DOI:10.1145/3581754.3584128
- [e.24] Lee W, Chun M, Jeong H, **Jung H**. “Toward Keyword Generation through Large Language Models”. In *Proceedings of the 28th International Conference on Intelligent User Interfaces (IUI’23)*. ACM, Sydney, March 2023. DOI:10.1145/3581754.3584126
- [e.23] Jeong H, Chun M, **Jung H**. “Toward Interactive Machine Learning Through Visualizing Predictions of Data Instances”. *AMIA 2023 Informatics Summit.*, Seattle, WA, March 2023.
- [e.22] Yoo T, Chun M, Bae Y, Kwon S, **Jung H**. “Exploring the Community of Model Publishers on TensorFlow Hub”. In *Proceedings of the 2022 Conference on Computer Supported Cooperative Work and Social Computing (CSCW’22)*. ACM, Virtual Event, November 2022. DOI:10.1145/3500868.3559477
- [e.21] **Jung H**, Lee H, Jung J, Kim H. “Creating an Explainable Artificial Intelligence Framework to Increase Nurses Confidence in an Interhospital Transfer Scenario”. In *Association for the Advancement of Artificial Intelligence 2022 Workshop: Trustworthy AI for Healthcare (AAAI’22)*, Virtual Event, March 2022.
- [e.20] Jeong H, **Jung H**. “MonoPass: A Password Manager without Master Password Authentication”. In *Proceedings of the 26th International Conference on Intelligent User Interfaces (IUI’21)*. ACM, Virtual Event, April 2021. DOI:10.1145/3397482.3450722
- [e.19] Yoo T, Jeong H, Lee D, **Jung H**. “LectYS: A System for Summarizing Lecture Videos on YouTube”. In *Proceedings of the 26th International Conference on Intelligent User Interfaces (IUI’21)*. ACM, Virtual Event, April 2021. DOI:10.1145/3397482.3450722
- [e.18] Seo M, Lee H, Choi S, Jo S, Jung H, Park S, **Jung H**. “Exploring Experiences of Virtual Reality among Young and Older Adults in a Subway Fire Scenario: a Pilot Study”. In *Proceedings of the 25th ACM Symposium on Virtual Reality Software and Technology*, Parramatta, NSW, Australia, November 2019. [BKCSA136 IF=1]
- [e.17] Bae Y, **Jung H**. “A Prototype of Non-smoking Aid Application Based on Features and User Interfaces to Support People with Low Vision”. In *Proceedings of the 2019 US-Korea Conference on Science, Technology and Entrepreneurship (UKC)*, Rosemont, IL, August 2019.
- [e.16] Yoo T, **Jung H**. “Category Classification of Educational Videos on YouTube through Machine Learning Approaches Using Video Titles”. In *Proceedings of the 2019 US-Korea Conference on Science, Technology and Entrepreneurship (UKC)*, Rosemont, IL, August 2019.

- [e.15] Seo M, **Jung H**. “A Study on the Utilization and Module Configuration Diagram of the User Path in Virtual Reality Using Unity”. In Proceedings of *the 2019 US-Korea Conference on Science, Technology and Entrepreneurship (UKC)*, Rosemont, IL, August 2019.
- [e.14] Lee J, Park G, **Jung H**. “Poster: SEEjang: Smart, Easy, and Economical Offline Shopping Assist App Development through Design Thinking Process”. In Proceedings of *the 17th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys)*, Seoul, Korea, June 2019. [BKCSA043 IF=3]
- [e.13] Kwon K, **Jung H**. “Opportunities to Reduce Lung Cancer Disparities Among African Americans through Informatics: A Systematic Review”. In *Proceedings of the American Public Health Association (APHA) 2018 Annual Meeting*, San Diego, CA, November 2018.
- [e.12] Kwon K, **Jung H**. “The Use of Public Health Informatics to Reduce Lung Cancer Disparities Among African Americans: A Systematic Review”. In *Proceedings of the 2013 US-Korea Conference on Science, Technology and Entrepreneurship (UKC)*, Queens, NY, August 2018.
- [e.11] Seo W, **Jung H**. “Understanding Blind or Visually Impaired People on YouTube through Qualitative Analysis of Videos”. In *Proceedings of the ACM International Conference on Interactive Experiences for TV and Online Video. Association for Computing Machinery (ACM)*, Seoul, Korea, June 2018.
- [e.10] Seo W, **Jung H**. “Exploring the Community of Blind or Visually Impaired People on YouTube”. In *Proceedings of the 19th ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*. ACM, Baltimore, MD, October 2017. DOI:10.1145/3132525.3134801
- [e.9] **Jung H**, Seo W, Cha M. “Personas and Scenarios to Design Technologies for North Korean Defectors with Depression”. In *Companion of the 20th ACM Conference on Computer-Supported Cooperative Work and Social Computing (pp. 215-218)*. ACM, Portland, OR, February 2017. DOI:10.1145/3022198.3026308 [BKCSA040 IF=3]
- [e.8] **Jung H**, Law A, Wu E, Whipple ME. “Coordinated Markov Modeling of Cancer Metastasis from Multiple Primary Sites”. In *Proceedings of the Conference of the Asia Pacific Association for Medical Informatics*, Seoul, Korea, November 2016.
- [e.7] **Jung H**, Lee J. “Development of a Medication Information Generator System for Older Adults”. *2016 IEEE International Conference on Healthcare Informatics (ICHI)*, Chicago, IL, USA, October 2016, p. 312. DOI:10.1109/ICHI.2016.54
- [e.6] Lee S, **Jung H**. “Mutiv: Music-based Mobile Application to Support Joggers”. *2016 IEEE International Conference on Healthcare Informatics (ICHI)*, Chicago, IL, USA, October 2016, p. 411. DOI:10.1109/ICHI.2016.75
- [e.5] Law AB, **Jung H**, Wang LL, Kusano A, Whipple ME. “A Model of Regional Tumor Metastasis of Squamous Cell Carcinoma of the Tongue”. In *Proceedings of the American Head and Neck Society (AHNS) 9th International Conference on Head and Neck Cancer*, Seattle, WA, July 2016.
- [e.4] Wang LL, Grunblatt E, **Jung H**, Whipple ME, Kalet IJ. “Biological Model Creation as Ontological Auditing for the Foundational Model of Anatomy”. In *Proceedings of the National Library of Medicine Informatics Training Conference*, Bethesda, MD, June 2015.
- [e.3] **Jung H**, Lee ES, Estiri H, Stephens KA. “Interactive Demographic Visualization of Multiple Facilities across Time”. In *Proceedings of the 2014 Workshop on Visual Analytics in Healthcare (VAHC)*, Washington, D.C., November 2014.
- [e.2] **Jung H**, Lau J. “Task-Decomposing Anonymous Crowds”. In *Proceedings of the 2013 US-Korea Conference on Science, Technology and Entrepreneurship (UKC)*, East Rutherford, New Jersey, August 2013.
- [e.1] **Jung H**. “Reasoning about Interaction for Hospital Decision Making”. In *Advances in Artificial Intelligence: 23rd Canadian Conference on Artificial Intelligence, Canadian AI 2010*, Ottawa, Canada, May 31-June 2, 2010, Proceedings 2010 May 12 (Vol. 6085, pp. 414-415). Springer. DOI:10.1007/978-3-642-13059-5_60

- [dj.1] Lee H, Chun M, Jeong H, **Jung H**. “Toward Fairness in Artificial Intelligence: Uncovering Food Delivery App Reviews with Poisoning Attacks”. *Communications of the Korean Institute of Information Scientists and Engineers*, December 2022.

DOMESTIC CONFERENCE PAPERS

- [dc.27] Kim M, **Jung H**. “Designing an LLM-based App to Improve Smartphone Usage Skills among Older Adults”. *In Proceedings of HCI Korea 2024*, Gangwon-do, January 2024.
- [dc.26] Yoo T, **Jung H**. “Exploring the Community of Sustainable AI Model Developers on Hugging Face”. *In Proceedings of HCI Korea 2024*, Gangwon-do, January 2024. (**Best paper award**)
- [dc.25] Her J, Shin H, Lim C, Yu H, **Jung H**. “Campus Connect: Designing an App to Improve Communications Between Students Through a Design Thinking Process”. *In Proceedings of HCI Korea 2024*, Gangwon-do, January 2024.
- [dc.24] Kang H, Park M, **Jung H**. “Designing an Application to Support Software Entrepreneurs for Optimizing Technology Stack Selection”. *In Proceedings of HCI Korea 2024*, Gangwon-do, January 2024.
- [dc.23] Bae S, Lee K, Lee J, Jeon H, **Jung H**. “GPT & Stable Diffusion-based Post-Reading Activity Services”. *In Proceedings of Korea Software Congress 2023*, Busan, Korea, December 2023.
- [dc.22] Song S, **Jung H**, Kwon H. “Exploring User Experience According to the Relationship Between Gift Exchange Method and Intimacy: Focusing on KakaoTalk Birthday Gift”. *In Proceedings of KSDS Conference 2023*, Gyeonggi-do, May 2023.
- [dc.21] Won G, **Jung H**, Kwon H. “Exploring User Preference on Cancellation/Refund Policy within Kakao Talk Gift Service”. *In Proceedings of KSDS Conference 2023*, Gyeonggi-do, May 2023.
- [dc.20] Lee S, Lee H, **Jung H**. “Link-it!: Designing an App Managing Website Links Through a Design Thinking Process”. *In Proceedings of HCI Korea 2023*, Gangwon-do, February 2023.
- [dc.19] Chun M, **Jung H**. “Development and Heuristic Evaluation of Rotten Food Recognition App User Interface for Older Adults”. *In Proceedings of Korea Software Congress 2022*, Jeju, Jeju-do, Korea, December 2022.
- [dc.18] Jeong H, Chun M, **Jung H**. “Comparison of the Probability Distribution of Two Labels Through Visual Analytics of a Multiclass Classification Model”. *In Proceedings of Korea Software Congress 2022*, Jeju, Jeju-do, Korea, December 2022.
- [dc.17] Lee H, **Jung H**. “System for Analyzing Bias of Data to Develop Artificial Intelligence Models: a Case Study of Food Delivery App Reviews”. *In Proceedings of Korea Software Congress 2022*, Jeju, Jeju-do, Korea, December 2022.
- [dc.16] Lee H, **Jung H**. “Auto Labeling Restaurant Notices of Delivery Applications using Text Classification Model”. *In Proceedings of Korea Computer Congress 2022*, Seogwipo, Jeju-do, Korea, June 2022.
- [dc.15] Chun M, **Jung H**. “Development of Visual Analytics Tool for Explaining Data Characteristics and Model Performance Indicators”. *In Proceedings of Korea Computer Congress 2022*, Seogwipo, Jeju-do, Korea, June 2022.
- [dc.14] Jeong H, Kim Y, **Jung H**. “Designing a Trip-plan Sharing App Through a Design Thinking Process”. *In Proceedings of HCI Korea 2022*, Virtual Event, January 2022.
- [dc.13] Kang M*, Han J*, **Jung H**. “Designing an App to Improve Experience of Workers Waiting for an Elevator During the COVID-19 Pandemic”. *In Proceedings of HCI Korea 2022*, Virtual Event, January 2022. (*co-first authors)
- [dc.12] Lee H, **Jung H**, Jung J, Kim H. “An Explainable AI Tool to Support Decision-making in an Emergency Patients Transfer Request Scenario”. *In Proceedings of the Korean Society of Medical Informatics 2021*, Yongin, November 2021.
- [dc.11] Chun M*, Gwak S*, **Jung H**. “A Study on Utilizing COVID-19 Emergency Notification through a Design Thinking Process”. *In Proceedings of HCI Korea 2021*, Virtual Event, January 2021. (*co-first authors)

- [dc.10] Kang S, Song Y, Hu H, **Jung H.** “Bounce: Designing an EKG Monitoring Application using a Wearable Sensor through a Design Thinking Process”. In *Proceedings of HCI Korea 2021*, Virtual Event, January 2021.
- [dc.9] Lee W, **Jung H.** “DALT: Deep Learning Assisted Labeling Task”. In *Proceedings of the 2020 Summer Conference of the Korea Multimedia Society (KMMS)*, Jeju, Koera, August 2020.
- [dc.8] Jung H, Jung H, Jung J, Jang S, Jeong S, **Jung H.** “Sympathy: Development and Evaluation of a Mobile Application and a Doll to Support Cognitive Behavioral Therapy for Depression”. In *Proceedings of the Korean Society of Medical Informatics 2019*, Seoul, Korea, July 2019.
- [dc.7] Shin H, Park G, **Jung H.**, Kwon H. “Design of Cohort Analysis System for Colon Cancer Patients based on the Combination of Environmental Factor”. In *Proceedings of Korea Computer Congress 2019*, Seogwipo, Jeju-do, Korea, June 2019.
- [dc.6] Lee J, Park G, **Jung H.** “Development and Usability Study of an Offline Shopping Assist App through Design Thinking Process”. In *Proceedings of Korea Computer Congress 2019*, Seogwipo, Jeju-do, Korea, June 2019.
- [dc.5] Yoo T, **Jung H.** “Category Classification of Educational Videos on YouTube through Machine Learning Approaches”. In *Proceedings of Korea Computer Congress 2019*, Seogwipo, Jeju-do, June, February 2019.
- [dc.4] Ko Y, **Jung H.**, Oh U. “Analysis of Conflicts in Romantic Relationships on Mobile Messengers”. In *Proceedings of HCI Korea 2019*, Seogwipo, Jeju-do, Korea, February 2019.
- [dc.3] Jeon H, **Jung H.** “Designing a Crime Rate-based Recommended Routes Guidance Application”. In *Proceedings of HCI Korea 2019*, Seogwipo, Jeju-do, Korea, February 2019.
- [dc.2] Yoo T, **Jung H.** “Needs Analysis Based on Vlogging Career”. In *Proceedings of HCI Korea 2019*, Seogwipo, Jeju-do, Korea, February 2019.
- [dc.1] Bae Y, **Jung H.** “A Study on the Analysis of Personas and Scenarios for Earthquake Avoidance in School”. In *Proceedings of HCI Korea 2019*, Seogwipo, Jeju-do, Korea, February 2019.

PRESENTATIONS

- [p.6] **Jung H.** “Toward Smart Health: Healthcare Transformation”. Podium presented at the *4th Aslla Symposium*, Gangneung, Gangwon-do, June 2018.
- [p.5] **Jung H.** “Creating a Smartphone Application for Image-assisted Dietary Assessment for Older Adults with Type 2 Diabetes”. Podium presented at the *American Medical Informatics Association (AMIA) Annual Symposium*, Chicago, IL, November 2016.
- [p.4] **Jung H.** “Use of Social Media for Dietary Assessment among Older Adults with Diabetes”. Podium presented at the *Workshop on Social Media for Older Adults*, Bellevue, WA, November 2016.
- [p.3] **Jung H.** “Creating a Smartphone Application for Image-assisted Dietary Assessment for Older Adults with Type 2 Diabetes”. Podium and poster presented at the *IEEE International Conference on Healthcare Informatics*, Chicago, IL, October 2016.
- [p.2] Wang LL, Grunblatt E, **Jung H.**, Whipple ME, Kalet IJ. “Ontological Content Auditing during Model Creation Using the Foundational Model of Anatomy”. Poster presented at the *National Library of Medicine (NLM) Informatics Training Conference*, Bethesda, MD, June 2015.
- [p.1] **Jung H.**, Cohen R. “A Model for Reasoning about Interaction with Users in Hospital Decision Scenarios”. Poster presented at *Biomedical Computation at Stanford (BCATS) 2010*, Stanford, November 2010.

INVITED TALKS

18. Toward Human-Centered AI to Improve Decision Making
- Artificial Intelligence Institute, Seoul National University, Seoul, Korea Nov. 2023
 - Department of Data Science, Inha University, Incheon, Korea Mar. 2023
 - Department of Applied Artificial Intelligence, SEOULTECH, Seoul, Korea Sep. 2022

17. Usability Evaluation of a 24-hour Recall Application for Dietary Assessment of Older Adults with Diabetes
 - Autumn Conference on The Korean Society of Community Nutrition, Seoul, Korea Oct. 2023
16. Development of an AI-based Dietary Assessment System for Older Adults with Diabetes
 - Autumn Conference on The Korean Society of Community Nutrition, Seoul, Korea Oct. 2023
15. Virtual Reality in Nursing Education
 - Education & Training Center for Nursing, Seoul National University, Seoul, Korea Aug. 2023
14. Toward Human-Centered AI to Improve Decision Making in Healthcare
 - Department of Computer Science and Engineering, POSTECH, Pohang, Korea Mar. 2023
 - Chungbuk Korean Precision Medicine Forum, Jecheon, Korea Mar. 2023
 - Cheonnam Research Institute of Nursing Science, Gwangju, Korea May 2022
 - Department of Computer Science, Yonsei University, Seoul, Korea Apr. 2022
13. Leveraging Human-Centered AI to Improve Decision Making in Health Informatics
 - Research Institute of Nursing Science, Seoul National University, Seoul, Korea Mar. 2021
12. From Data to Decision: Improving Decision Making with Electronic Health Records Data
 - Department of Computer Science, Korea University, Seoul, Korea May 2019
 - Department of Computer Science and Engineering, POSTECH, Pohang, Korea Mar. 2019
 - Department of Software Convergence, Kyung Hee University, Yongin, Korea Oct. 2018
 - Department of Computer Engineering, Ajou University, Suwon, Korea Mar. 2018
 - School of Human ICT Convergence, Sungkyunkwan University, Suwon, Korea Nov. 2017
 - Department of Preventive Medicine, Kyung Hee University, Seoul, Korea Nov. 2017
 - Electronics and Telecommunications Research Institute, Daejeon, Korea Nov. 2017
 - Department of Biomedical Informatics and Medical Education, University of Washington School of Medicine, Seattle, WA Oct. 2017
 - Department of Quantitative Health Sciences, University of Massachusetts Medical School, Worcester, MA Sep. 2017
 - Brown Center for Biomedical Informatics, Brown University, Providence, RI May 2017
11. From Data to Decision: Improving Decision Making with Data for Disaster Response
 - MR-IoT Convergence Disaster Response AI Research Workshop, Suwon, Korea Feb. 2019
10. 'MASTerful' Matchmaking in Service Transactions: Inferred Abilities, Needs and Interests versus Activity Histories
 - School of Computing, KAIST, Daejeon, Korea Nov. 2017
 - Department of Computer Science and Engineering, Seoul National University, Seoul, Korea Jan. 2017
 - School of Computer Science and Engineering, Chung-Ang University, Seoul, Korea Dec. 2016
 - School of Human ICT Convergence, Sungkyunkwan University, Suwon, Korea Dec. 2016
 - Graduate School of Convergence Science and Technology, Seoul National University, Suwon, Korea Dec. 2016
 - Department of Library and Information Science, Yonsei University, Seoul, Korea Dec. 2016
9. Creating Technologies towards Smart Health and Cyber-Human Systems
 - Department of Biostatistics and Informatics, Colorado School of Public Health, Aurora, CO Apr. 2017
 - Department of Healthcare Policy and Research, Weill Cornell Medical College, New York, NY Apr. 2017
 - Department of Informatics, New Jersey Institute of Technology, Newark, NJ Apr. 2017
 - Graduate School of Knowledge Service Engineering, KAIST, Daejeon, Korea Jan. 2017
8. Creating Tools for Visual Analytics through User-Centered Design Process
 - Institute for Biomedical Informatics, University of Pennsylvania, Philadelphia, PA Jan. 2017
7. Needs Assessment through Personas and Scenarios
 - College of Nursing, Seoul National University, Seoul, Korea Jan. 2017
6. Markov Modeling of Cancer Metastasis for Predicting Head and Neck Squamous Cell Carcinoma Dissemination

- Department of Biomedical informatics, Ajou University School of Medicine, Suwon, Korea Dec. 2016
 - Biomedical Engineering Department, Seoul National University College of Medicine, Seoul, Korea Dec. 2016
 - Division of Biomedical Informatics, Seoul National University College of Medicine, Seoul, Korea Dec. 2016
 - School of Electrical Engineering, Korea University, Seoul, Korea Nov. 2016
5. Designing Tools to Support Users with Special Needs
 - School of Human ICT Convergence, Sungkyunkwan University, Suwon, Korea Dec. 2015
 4. Designing Tools to Support Advanced Users in New Forms of Social Media Interaction
 - 16th KOCSEA Technical Symposium, Claremont, CA Dec. 2015
 3. Redesigning Tools for Supporting Clinical Researchers through User-centered Design Approach
 - School of Human ICT Convergence, Sungkyunkwan University, Suwon, Korea Dec. 2014
 - Department of Biomedical Informatics, Ajou University School of Medicine, Suwon, Korea Dec. 2014
 - College of Nursing, Seoul National University, Seoul, Korea Dec. 2014
 2. A Model for Reasoning about Interaction with Users in Dynamic, Time Critical Environments for the Application of Hospital Decision Making
 - Sharing Discovery: The 2010 Graduate Student Research Conference, University of Waterloo, Waterloo, ON Canada Apr. 2010
 1. Finding the Right Doctor in Hospital Emergency Scenarios
 - Lawrence S. Bloomberg Faculty of Nursing, University of Toronto, Toronto, ON Canada Sep. 2009

TEACHING

Instructor, University of Seoul Seoul, Korea
Advanced HCI *Spring 2024*
Discrete Mathematics *Spring 2020-2024*
Intelligent HCI *Fall 2023*
Human-Computer Interaction *Fall 2020-2023*
Programming Language *Fall 2019-2022*
Datacenter Programming *Fall 2020*
Topics in Multimedia *Fall 2019*

- Give lectures on the concepts, theories, and practices about data science and human-computer interaction design through flipped-learning approaches

Instructor, Kyung Hee University Yongin, Korea
SWCON221 Datacenter Programming *Fall 2018 - Spring 2019*
SWCON363 Independent Learning & Research(Major) *Spring 2019*
SWCON104 Web and Python Programming *Fall 2018*
SWCON103 Design Thinking *Fall 2018*
GEE1952 Major Exploring Program *Fall 2018*

- Gave lectures on the concepts, theories, and practices about data science and human-computer interaction design through flipped-learning approaches

Writing Tutor, University of Washington Seattle, WA
The Odegaard Writing and Research Center *Fall 2016 - Fall 2017*

- Provided undergraduate and graduate students with 1:1 writing tutoring

Course Assistant, Stanford University Stanford, CA
CS116 From Nand to Tetris *Spring 2012*
CS424M Computational Modeling and Analytics in Social Science *Winter 2012*
CS106A Programming Methodology *Fall 2011*

- Graded assignments and held office hours to assist students with concepts

Instructor, Stanford University Stanford, CA
Stanford Educational Studies Program *Fall 2010, Spring 2011, Fall 2011, Spring 2012*

- Taught Korean language and alphabet for about 90 high school students

Teaching Assistant, University of Waterloo*CS136 Elementary Algorithm Design and Data Abstraction**CS115 Introduction to Computer Science 1*

Waterloo, ON Canada

*Winter 2009**Fall 2008*

- Marked assignments and examinations, and proctored examinations

Instructor, Government of Grenada*Korea Internet Volunteers*

St. George's, Grenada

Summer 2008

- Taught Java programming and Web design
- Received certificate of appreciation from Minister of Education of Grenada

Teaching Assistant, KAIST*BEP403 Microeconomics**CS101 Introduction to Programming*

Daejeon, Korea

*Spring 2008**Spring 2008*

- Held consulting hours to assist students with concepts
- Marked assignments and examinations, and proctored examinations

Tutor, KAIST*KAIST Tutoring Program*

Daejeon, Korea

Fall 2007 - Spring 2008

- Provided 1:1 remedial tutoring to undergraduate freshmen
- Tutored two international freshmen in CS101 Introduction to Programming (Java programming)

Instructor, De La Salle Lipa*Korea Internet Volunteers*

Lipa, Philippines

Summer 2007

- Taught MATLAB programming and conducted seminars for advanced information technology
- Received two certificates of appreciation, one from the Dean of Computer Science and another from the Dean of Tourism Department

ADVISING & RESEARCH MENTORING

Graduate Students

- Hyunmin Lee (M.S. student, University of Seoul) *Mar. 2023 - present*
- Jinhyun Han (Ph.D. student, University of Seoul) *Mar. 2021 - present*
- Hyeonhak Jeong (M.S. student, University of Seoul) *Mar. 2021 - Feb. 2023*
- Minki Chun (M.S. student, University of Seoul) *Mar. 2020 - Feb. 2023*

Research Interns

- Yubin Kim (Ewha Womans University) *Jan. 2024 - present*
- Dahyun Jeong (University of Seoul) *Dec. 2023 - present*
- Yunseo Moon (University of Seoul) *Apr. 2023 - present*
- Yunjung Bae (University of Southern California) *May 2022 - present*
- Sungmin Na (University of Washington) *Sep. 2020 - present*
- Taewon Yoo (Kyung Hee University) *Apr. 2018 - present*
- Seung Young Oh (University of Seoul) *June 2022 - Feb. 2024*
- Subin Park (Kyung Hee University) *May 2018 - Nov. 2023*
- Soohyun Kwon (New York University) *May 2022 - Dec. 2022*
- Jihyun Lee (Kyung Hee University) *Mar. 2018 - Feb. 2023*
- Saeri Kim (University of the Arts London) *Apr. 2021 - Aug. 2022*
- Jiwon Chun (Sookmyung Women's University) *Nov. 2021 - June 2022*
- Gwanhee Lee (University of Seoul) *Aug. 2021 - Feb. 2022*
- Sehyeon Hong (Kyungpook National University) *May 2021 - Feb. 2022*
- Woohyun Cho (University of Michigan) *May 2021 - Aug. 2021*
- Joonyoung Jun (University of Washington) *May 2020 - Dec. 2021*
- Hyeonhak Jeong (University of Seoul) *June 2020 - Feb. 2021*
- Joonho Gwon (University of Seoul) *Oct. 2019 - Feb. 2021*
- Jeongjin Park (Purdue University) *Mar. 2021 - July 2021*
- Jihyeon Park (Cornell University) *June 2020 - June 2021*
- Hyuk Gi Lee (University of Washington) *May 2020 - June 2021*
- Changgeon Lim (University of Seoul) *Sep. 2020 - Feb. 2021*
- Haeul Lee (University of Seoul) *Sep. 2020 - Feb. 2021*

- Wanhae Lee (University of Seoul) *Sep. 2019 - Feb. 2021*
- Suin Gwak (University of Seoul) *Sep. 2019 - Feb. 2021*
- Jaewon Choi (University of Washington) *June 2020 - Nov. 2020*
- Yewon Hyun (POSTECH) *Oct. 2019 - Feb. 2020*
- Byeongseon Choi (University of Seoul) *Oct. 2019 - Dec. 2019*
- Heejae Jung (Kyung Hee University) *Apr. 2018 - Aug. 2019*
- Minyeong Seo (Kyung Hee University) *Apr. 2019 - Aug. 2019*
- Yiji Bae (Kyung Hee University) *Apr. 2018 - June 2019*
- Hyeonjin Jeon (Kyung Hee University) *Apr. 2018 - Feb. 2019*

Research Mentoring

- Seung Je Woo (PhD student, Stanford University) *Jan. 2016 - Feb. 2018*
- Woosuk Seo (PhD student, University of Michigan-Ann Arbor) *Apr. 2017 - Aug. 2018*
- Woosuk Seo, Michelle Cha (Undergraduate, University of Washington) *May 2016 - Feb. 2017*
- Sangwook Lee (Undergraduate, POSTECH) *May 2016 - Nov. 2016*
- Jiyoun Lee (Undergraduate, Kwangwoon University) *Jan. 2016 - May 2016*

TECHNICAL SKILLS

- Programming: C/C#/C++, Java, Python, R, Scheme, JavaScript, Lisp, MATLAB, and Maple
- Applications: Docker, Kubernetes, \TeX , \LaTeX , \BibTeX , and other common productivity packages for Windows and Linux platforms
- Operating Systems: Microsoft Windows, iOS, Android, Linux, and Unix

SERVICE

Conference/Workshop Organization & Assistance

- President, Korea ACM SIGCHI Chapter *2022-present*
- Associate Chair, ACM CSCW *2020-present*
- Associate Chair, ACM CHI *2023*
- Proceedings Chair, ACM CSCW *2023*
- Officer, Korea ACM SIGCHI Chapter *2018-2022*
- Program Committee, Software Convergence Symposium 2020 (SWCS 2020) *2020*
- Associate Chair, Late-Breaking Works track at CHI 2020 *2020*
- Program Committee, ACM Conference on Recommender Systems (RecSys) *2018-2020*
- Program Committee, the 4th Aslla Symposium *2018*
- Invited Session Chair, SIGCHI Korea Local Chapter 2018 Spring Academic Workshop *2018*
- Program Committee, ACM Annual Meeting of the Intelligent User Interfaces (IUI) Community *2017-2018*
- Student Volunteer, ACM Conference on Human Factors in Computing Systems (CHI) *2015-2018*
- Assistant Editor, MedInfo 2017 Editorial Team *2017*
- Organizer, Workshop on Social Media for Older Adults (SMOA) *2016*
- Student Volunteer, IEEE International Conference on Healthcare Informatics (ICHI) *2016*
- Student Volunteer, ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (BCB) *2016*
- Student Volunteer, AMIA Annual Symposium *2015*
- Web Chair, ACM Conference on Multimodal Interaction (ICMI) *2015*
- Student Volunteer, AMIA Joint Summits on Translational Science *2011-2012*
- Student Volunteer, Biomedical Computation at Stanford (BCATS) 11th Symposium *2010*

Publication Reviewer

- ACM Conference on Recommender Systems (ISMAR) *2020*
- ACM Conference on Recommender Systems (RecSys) *2018-2020*
- ACM Conference on Human Factors in Computing Systems (CHI) *2016-2019*
- ACM Conference on Human-Computer Interaction with Mobile Devices and Services (Mobile HCI) *2017-2019*
- ACM International Conference on Multimodal Interaction *2018*

- ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI) 2018
- ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)
- AMIA Joint Summits on Translational Science 2016, 2018
- ACM Conference on Intelligent User Interfaces (IUI) 2017-2018
- AMIA Consumer and Pervasive Health Informatics Working Group Student Paper Reviewer 2017
- ACM Symposium on Spatial User Interaction (SUI) 2017
- ACM Australian Conference on Human-Computer Interaction (OzCHI) 2017
- Journal of Future Generation Computer Systems 2017
- International Journal of Distributed Sensor Networks 2017
- ACM Conference on Designing Interactive Systems (DIS) 2017
- ACM/IEEE Conference on Human-Robot Interaction (HRI) 2017
- ACM Conference on Interaction Design and Children (IDC) 2016-2017
- AMIA Translational Bioinformatics Year in Review 2016-2017
- AMIA Annual Symposium 2015, 2017-2018
- Workshop on Visual Analytics in Healthcare (VAHC) 2016
- ACM Conference on Interactive Experiences for TV and Online Video (TVX) 2016

Other Service

- Officer, Young Generation (YG) Group, KSEA Seattle Chapter 2016-2018
- Student Liaison, Consumer and Pervasive Health Informatics Working Group, AMIA 2017
- Panelist, KSEA Seattle YG BioHealth Mentoring 2017
- Panelist, Fall 2017 Foundation for International Understanding Through Students (FIUTS) Grad-Only Oritation 2017
- Alumni Interviewer, Stanford Alumni Interview Program 2015, 2017
- Mentor, AMIA High School Scholars Program 2015
- Organizer, National Mathematics and Science Competitions, KSEA Seattle Chapter 2014
- Booth Captain, CulturalFest, FIUTS, Univeristy of Washington 2013
- MS Admissions Committee Member, Computer Science Department, Stanford University 2011
- Shadow Program Mentor, University of Waterloo 2009-2010
- CS4U Volunteer, David R. C. School of Computer Science, University of Waterloo 2008-2009
- Dormitory Leader, KAIST Dormitory Association, KAIST 2007-2008

Professional Membership

- Member, Association for Computing Machinery (ACM)
- Member, American Medical Informatics Association (AMIA)
- Member, Korean-American Scientists and Engineers Association (KSEA)
- Member, Korean Computer Scientists and Engineers Association of America