

HYUNGGU JUNG

Kyung Hee University, Electronics Information College bldg, Rm 443-1
 Department of Software Convergence
 1732 Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, Korea

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RESEARCH INTERESTS

Health Informatics, Human-Computer Interaction, Decision-Making, Visual Analytics, Social Computing, Assistive Technologies, Data-Driven Design, Data Science

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

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

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 Seattle, WA
Institute of Translational Health Sciences *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

Redmond, WA

Natural Interaction Research Group

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

Seattle, WA

Health-E Research Group

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, CA

Stanford HCI Group

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

Waterloo, ON Canada

Artificial Intelligence Research Group

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

Waterloo, ON Canada

Math Faculty Computing Facility (MFCCF) Help Center

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.

Seoul, Korea

Division of Desktop Management System

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

Seoul, Korea

Seobu Station

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

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|---------------|--|
| 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 **Korean Government Scholarship**
-2014 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

JOURNAL PAPERS

- [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. [Impact factor 1.755]
- [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). [Impact factor 3.625]

CONFERENCE PAPERS

- [c.21] Kwon K, **Jung H**. “Opportunities to Reduce Lung Cancer Disparities Among African Americans through Informatics: A Systematic Review”. *To appear in Proceedings of the American Public Health Association (APHA) 2018 Annual Meeting*, San Diego, CA, November 2018.
- [c.20] 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.
- [c.19] 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.
- [c.18] 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
- [c.17] **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
- [c.16] 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.15] **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.14] 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.
- [c.13] **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.
- [c.12] **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
- [c.11] 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
- [c.10] 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.
- [c.9] **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)]
- [c.8] 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.7] **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*. Association for Computing Machinery (ACM), Limerick, Ireland, July 2015. DOI: 10.1145/2775441.2775462
- [c.6] 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.5] 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.4] **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.
- [c.3] **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.
- [c.2] **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
- [c.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

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

11. From Data to Decision: Improving Decision Making with Electronic Health Records Data
 - 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
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, Kyung Hee University Yongin-si, Korea
SWCON221 Datacenter Programming *Fall 2018*
SWCON104 Web and Python Programming *Fall 2018*
SWCON103 Design Thinking *Fall 2018*
GEE1952 Major Exploring Program *Fall 2018*

- Giving lectures on data science and human-computer interaction design

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 Waterloo, ON Canada
CS136 Elementary Algorithm Design and Data Abstraction *Winter 2009*
CS115 Introduction to Computer Science 1 *Fall 2008*

- Marked assignments and examinations, and proctored examinations

Instructor, Government of Grenada St. George's, Grenada
Korea Internet Volunteers *Summer 2008*

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

Teaching Assistant, KAIST Daejeon, Korea
BEP403 Microeconomics *Spring 2008*
CS101 Introduction to Programming *Spring 2008*

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

Tutor, KAIST Daejeon, Korea
KAIST Tutoring Program *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 Lipa, Philippines
Korea Internet Volunteers *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

RESEARCH MENTORING

- Woosuk Seo (PhD student, University of Michigan) *Apr. 2017 - present*
 "Understanding the Community of Blind or Visually Impaired People on YouTube"
- Seungje Woo (PhD student, Stanford University) *Jan. 2016 - present*
 "Review on Information-communication Technologies for Diagnosis and Treatment of Alzheimer's Diseases"
- Woosuk Seo, Michelle Cha (Undergraduate, University of Washington) *May 2016 - Feb. 2017*
 "Designing Technologies to Support North Korean Defectors with Depression"
- Sangwook Lee (Undergraduate, Postech, Korea) *May 2016 - Nov. 2016*
 "Designing Tools to Support Runners through User-centered Design Approach"
- Donghun Lee (Researcher, ETRI, Korea) *Sept. 2015 - June 2016*
 "Designing Space-sharing Platforms through User-centered Design Approach"

- Jiyoun Lee (Undergraduate, KwangWoon University, Korea) *Jan. 2016 - May 2016*
“Development of a Medication Information Generator System for Older Adults”

TECHNICAL SKILLS

- Programming: C/C#/C++, Java, Python, R, Scheme, JavaScript, Lisp, MATLAB, and Maple
- Applications: T_EX, L^AT_EX, B_IB_TE_X, and other common productivity packages for Windows and Linux platforms
- Operating Systems: Microsoft Windows, iOS, Android, Linux, and Unix

SERVICE

Conference/Workshop Organization & Assistance

- 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*
- Assistant Editor, MedInfo 2017 Editorial Team *2017*
- Student Volunteer, ACM Conference on Human Factors in Computing Systems (CHI) *2015-2017*
- 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 International Conference on Multimodal Interaction *2018*
- ACM Conference on Automotive User Interfaces and Interactive Vehicular Applications (AutomotiveUI) *2018*
- ACM Conference on Recommender Systems *2018*
- MobileHCI *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 Human-Computer Interaction with Mobile Devices and Services (Mobile HCI) *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*
- ACM Conference on Human Factors in Computing Systems (CHI) *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, American Medical Informatics Association (AMIA)
- Member, Korean-American Scientists and Engineers Association (KSEA)
- Member, Korean Computer Scientists and Engineers Association of America
- Member, Healthcare Information and Management Systems Society (HIMSS)
- Member, Association for Computing Machinery (ACM)