

Chunjong Park

Paul G. Allen School of Computer Science & Engineering
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- RESEARCH INTERESTS** Ubiquitous Computing, Human-Computer Interaction
Novel sensing systems for health and interaction using computer vision, machine learning, and signal processing.
- EDUCATION**
- University of Washington** SEP. 2017 ~
Ph.D., Computer Science & Engineering, (*Advisor: Shwetak Patel*)
- Korea Advanced Institute of Science and Technology (KAIST)** FEB. 2017
M.S., Computer Science, (*Advisor: Sung-Ju Lee*)
- Korea Advanced Institute of Science and Technology (KAIST)** FEB. 2015
B.S., Computer Science, (*Advisor: Sue Moon*)
- RESEARCH EXPERIENCES**
- Ubicomp Lab., University of Washington** SEATTLE, WA
Research Assistant SEP. 2017 ~
Designing and building mobile health application that can be used easily and safely by ordinary people.
- Smartphone sensor-based user-facing health applications for rapid diagnostic test interpretation, capillary refill time measurement, and corneal disease screening.
 - Improving trustworthiness and reliability of deep learning models for consumer-facing health applications
 - Analyze user behaviors from large scale data collected from consumer-facing health devices and applications.
- Microsoft Research** REDMOND, WA
Research Intern JUN. 2021 ~ SEPT. 2021
(Mentors: Daniel McDuff, Tiffany Kuo, Brooke Loughrin)
Working on remote diagnostics and health sensing using mobile devices.
- Microsoft Research** REDMOND, WA
Research Intern JUN. 2020 ~ SEPT. 2020
(Manager: Ken Hinckley, Mentors: Michel Pahud, Eyal Ofek, Teddy Seyed)
Built sensor-mediated interaction techniques for seamless content sharing in multi-device, multi-user environment, using proxemics and micro-mobility.
- Snap Inc.** SEATTLE, WA
Research Intern JUN. 2019 ~ DEC. 2019
(Manager: Andrés Monroy-Hernández)
Built a non-textual communication application on smartphone and wearable by seamlessly recommending appropriate avatars that represent user's current context. Prototypes released in App Store ([Significant Otter](#), [BFF](#))
- Nokia Bell Labs** CAMBRIDGE, UK
Research Intern JUN. 2018 ~ SEPT. 2018
(Manager: Fahim Kawsar, Mentors: Alberto Gil Ramos, Sourav Bhattacharya)
Built strongly labeled audio dataset and a deep learning model on IoT devices for understanding ambient contexts.
- Networking & Mobile Systems Lab., KAIST** DAEJEON, KOREA
Research Assistant MAR. 2015 ~ JUL. 2017
Worked on exploring context-aware smartphone notification management, understanding thermal characteristics of smartphones, and exploring better use of micro spare time.

PUBLICATIONS

- Significant Otter: Understanding the Role of Biosignals in Communication
Fannie Liu, **Chunjong Park**, Yu Jiang Tham, Tsung-Yu Tsai, Laura Dabbish, Geoff Kaufman, Andrés Monroy-Hernández
ACM Conference on Human Factors in Computing Systems (CHI), May. 2021
- RDTCheck: A Smartphone App for Monitoring Rapid Diagnostic Test Administration
Devesh Sarda, **Chunjong Park**, Hung Ngo, Alex Mariakakis, Shwetak Patel
ACM Conference on Human Factors in Computing Systems (CHI) Late-Breaking Work, May. 2021
- Online Mobile App Usage as an Indicator of Sleep Behavior and Job Performance
Chunjong Park, Morelle Arian, Xin Liu, Leon Sasson, Jeffrey Kahn, Shwetak Patel, Alex Mariakakis, Tim Althoff
The Web Conference (WWW), Apr. 2021
- The Design and Evaluation of a Mobile System for Rapid Diagnostic Test Interpretation
Chunjong Park, Hung Ngo, Libby Rose Lavitt, Vincent Karuri, Shiven Bhatt, Peter Lubell-Doughtie, Anuraj H. Shankar, Leonard Ndwiga, Victor Osoti, Juliana K. Wambua, Philip Bejon, Lynette Isabella Ochola-Oyier, Monique Chilver, Nigel Stocks, Victoria Lyon, Barry R. Lutz, Matthew Thompson, Alex Mariakakis, Shwetak Patel
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), Mar. 2021
- Diagnostic accuracy of an app-guided, self-administered test for influenza among individuals presenting to general practice with influenza-like illness: study protocol
Victoria Lyon, Monica Zigman Suchsland, Monique Chilver, Nigel Stocks, Barry Lutz, Philip Su, Shawna Cooper, **Chunjong Park**, Libby Rose Lavitt, Alex Mariakakis, Shwetak Patel, Chelsey Graham, Mark Rieder, Cynthia LeRouge, Matthew Thompson
BMJ Open, Nov. 2020
- Augmenting Conversational Agents with Ambient Acoustic Contexts
Chunjong Park, Chulhong Min, Sourav Bhattacharya, Fahim Kawsar
ACM International Conference on Human-Computer Interaction with Mobile Devices and Services (Mobile-HCI), Oct. 2020
- Supporting Smartphone-Based Image Capture of Rapid Diagnostic Tests in Low-Resource Settings
Chunjong Park, Alex Mariakakis, Jane Yang, Diego Lassala, Yasamba Djiguiba, Youssouf Keita, Hawa Diarra, Beatrice Wasunna, Fatou Fall, Marème Soda Gaye, Bara Ndiaye, Shwetak Patel, Ari Johnson, Isaac Holeman
International Conference on Information and Communication Technologies and Development (ICTD), Jun. 2020
- Fire in Your Hands: Understanding Thermal Behavior of Smartphones
Soowon Kang, Hyeonwoo Choi, Soo Young Park, **Chunjong Park**, Jemin Lee, Uichin Lee, and Sung-Ju Lee
ACM Conference on Conference on Mobile Computing and Networking (MobiCom), Oct. 2019
- “Don’t Bother Me. I’m Socializing!”: A Breakpoint-Based Smartphone Notification System
Chunjong Park, Junsung Lim, Juho Kim, Sung-Ju Lee, and Dongman Lee
ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW), Feb. 2017
- Zaturi: We Put Together the 25th Hour for You. Create a Book for Your Baby
Bumsoo Kang, Chulhong Min, Wonjung Kim, Inseok Hwang, **Chunjong Park**, Seungchul Lee, Sung-Ju Lee, and Junehwa Song
ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW), Feb. 2017
- DX: Accurate Latency-based Congestion Feedback for Datacenters
Changhyun Lee, **Chunjong Park**, Keon Jang, Sue Moon, and Dongsu Han
IEEE/ACM Transaction on Networking, Feb. 2017
- Accurate Latency-based Congestion Feedback for Datacenters
Changhyun Lee, **Chunjong Park**, Keon Jang, Sue Moon, and Dongsu Han
USENIX Annual Technical Conference (ATC), Jul. 2015

PATENTS

- Non-Textual Communication and User States Management
Andrés Monroy-Hernández, **Chunjong Park**, and Fannie Liu
U.S. Patent App. Filed, September 2020

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| WORK EXPERIENCES | Content N | SEOUL, KOREA |
| | <i>Lead Software Engineer</i> | OCT. 2013 ~ MAR. 2014 |
| | Designed and developed back-end systems for a mobile arcade game, <i>Sushi Master</i> , using Amazon AWS, Node.js, MongoDB, and Redis. Developed data analysis tool and web interface for game statistics. | |
| | Company 100, Inc. | SEOUL, KOREA |
| | <i>Software Engineer</i> | MAR. 2012 ~ OCT. 2013 |
| | Designed and developed back-end systems for a mobile action-RPG game, <i>MetalBreaker</i> , using Amazon AWS, Node.js, MongoDB, and Redis. Developed data analysis tool and web interface for game statistics. | |
| | SQISoft, Inc. | SEOUL, KOREA |
| | <i>Software Engineer</i> | DEC. 2010 ~ MAR. 2012 |
| | Developed billing system for heat & electricity, and face recognition-based immigration clearance system deployed at the Incheon Int'l Airport. | |
| | Nexon Corp. | SEOUL, KOREA |
| | <i>Intern</i> | SEP. 2010 ~ DEC. 2010 |
| | Developed an in-game chat module in <i>BubbleFighter</i> online game. | |
| TEACHING EXPERIENCE | Teaching Assistant | University of Washington |
| | Introduction to Computer Communication Networks | WINTER 2018, FALL 2017 |
| | Teaching Assistant | KAIST |
| | Introduction to Computer Networks | SPRING 2016, SPRING 2015 |
| | Teaching Assistant | KAIST |
| | Networking for Smartphone Systems and IoT | FALL 2015 |
| PROGRAMMING SKILLS | <ul style="list-style-type: none"> • Language: C, C++, Java, Javascript/Node.js, Python, Objective-C, Swift • OS/Platform: Linux/Ubuntu, Android, iOS/WatchOS • Hardware: Arduino • Framework/Library/Version Control: OpenCV, PyTorch, TensorFlow, scikit-learn, Git | |
| ACADEMIC SERVICES | Reviewer | IMWUT 2018, 2019, 2020, 2021 CHI 2019, 2020, 2021 MobileHCI 2019, ISWC 2020, IEEE Pervasive Comp. 2020 |
| | Student Volunteer | UbiComp 2019, 2020 |
| AWARDS | Microsoft W+D Summer 2020 Hackathon Winners | MICROSOFT, AUG. 2020 |
| | Outstanding Teaching Assistant Award | KAIST, MAR. 2017 |
| | Outstanding M.S. Thesis Award | KAIST, FEB. 2017 |
| | Outstanding Teaching Assistant Award | KAIST, MAR. 2016 |
| | The 9 th Open Source SW World Challenge, Silver Medal | KOSSA, DEC. 2015 |