

Chunjong Park

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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 Ph.D., Computer Science & Engineering, (<i>Advisor: Shwetak Patel</i>)	SEP. 2017 ~
	Korea Advanced Institute of Science and Technology (KAIST) M.S., Computer Science, (<i>Advisor: Sung-Ju Lee</i>)	FEB. 2017
	Korea Advanced Institute of Science and Technology (KAIST) B.S., Computer Science, (<i>Advisor: Sue Moon</i>)	FEB. 2015
RESEARCH EXPERIENCES	Ubicomp Lab., University of Washington <i>Research Assistant</i> Designing and building mobile health application that can be used easily and safely by ordinary people. <ul style="list-style-type: none">• Smartphone camera-based user-facing health sensing applications for rapid diagnostic test capture and interpretation, capillary refill time measurement, and corneal topography.• Improving interpretability 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.	SEATTLE, WA SEP. 2017 ~
	Microsoft Research <i>Research Intern</i> (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.	REDMOND, WA JUN. 2020 ~ SEPT. 2020
	Snap Inc. <i>Research Intern</i> (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)	SEATTLE, WA JUN. 2019 ~ DEC. 2019
	Nokia Bell Labs <i>Research Intern</i> (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.	CAMBRIDGE, UK JUN. 2018 ~ SEPT. 2018
	Networking & Mobile Systems Lab., KAIST <i>Research Assistant</i> Worked on exploring context-aware smartphone notification management, understanding thermal characteristics of smartphones, and exploring better use of micro spare time.	DAEJEON, KOREA MAR. 2015 ~ JUL. 2017
	Advanced Networking Lab., KAIST <i>Undergraduate Researcher</i> Worked on improving TCP congestion control in a datacenter. Designed and implemented a module that measures latency of TCP packets with a sub-microsecond accuracy.	DAEJEON, KOREA JUL. 2014 ~ MAR. 2015

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 <i>ACM Conference on Human Factors in Computing Systems (CHI)</i> , 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 <i>The Web Conference (WWW)</i> , 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 <i>Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)</i> , 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 <i>BMJ Open</i> , Nov. 2020
	Augmenting Conversational Agents with Ambient Acoustic Contexts Chunjong Park , Chulhong Min, Sourav Bhattacharya, Fahim Kawsar <i>ACM International Conference on Human-Computer Interaction with Mobile Devices and Services (Mobile-HCI)</i> , 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 <i>International Conference on Information and Communication Technologies and Development (ICTD)</i> , 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 <i>ACM Conference on Conference on Mobile Computing and Networking (MobiCom)</i> , 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 <i>ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)</i> , 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 <i>ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)</i> , Feb. 2017
	DX: Accurate Latency-based Congestion Feedback for Datacenters Changhyun Lee, Chunjong Park , Keon Jang, Sue Moon, and Dongsu Han <i>IEEE/ACM Transaction on Networking</i> , Feb. 2017
	Accurate Latency-based Congestion Feedback for Datacenters Changhyun Lee, Chunjong Park , Keon Jang, Sue Moon, and Dongsu Han <i>USENIX Annual Technical Conference (ATC)</i> , 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
WORK EXPERIENCES	Content N <i>Lead Software Engineer</i> Designed and developed back-end systems for a mobile arcade game, <i>Sushi Master</i> , using Amazon AWS, Node.js, SEOUL, KOREA OCT. 2013 ~ MAR. 2014

MongoDB, and Redis. Developed data analysis tool and web interface for game statistics.

Company 100, Inc.

Software Engineer

SEOUL, KOREA

MAR. 2012 ~ OCT. 2013

Designed and developed back-end systems for a mobile action-RPG game, *MetalBreaker*, using Amazon AWS, Node.js, MongoDB, and Redis. Developed data analysis tool and web interface for game statistics.

SQISoft, Inc.

Software Engineer

SEOUL, KOREA

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.

Intern

SEOUL, KOREA

SEP. 2010 ~ DEC. 2010

Developed an in-game chat module in *BubbleFighter* online game.

TEACHING
EXPERIENCE

Teaching Assistant

Introduction to Computer Communication Networks

University of Washington

WINTER 2018, FALL 2017

Teaching Assistant

Introduction to Computer Networks

KAIST

SPRING 2016, SPRING 2015

Teaching Assistant

Networking for Smartphone Systems and IoT

KAIST

FALL 2015

PROGRAMMING
SKILLS

- **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, scikit-learn, PyTorch, Git

ACADEMIC
SERVICES

Reviewer

IMWUT 2018, 2019, 2020, 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 9th Open Source SW World Challenge, Silver Medal

KOSSA, DEC. 2015