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 — 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 camera-based user-facing health sensing applications for RDT capture and interpretation, Capillary Refill Time measurement, and corneal topography.
- Improving interpretability and reliability of deep learning models for user-facing health applications
- Analyze user behaviors from large scale data collected from user-facing health devices and applications.

Microsoft Research — REDMOND, WA
Research Intern — JUN. 2020 ∼
(Manager: Ken Hinckley, Mentors: Michel Pahud, Eyal Ofek, Teddy Seyed)
Buildling interaction techinques for seamless content sharing in multi-device, multi-user environment.

Snap Inc. — SEATTLE, WA
Research Intern — JUN. 2019 ∼ DEC. 2019
(Manager: Andrés Monroy-Hernández)
Building a non-textual communication application on smartphone and wearable by seamlessly recommending appropriate avatars that represent user's current context.

Nokia Bell Labs — CAMBRIDGE, UK
Research Intern — JUN. 2018 ∼ SEPT. 2018
(Manager: Fahim Kawsar, Mentors: Alberto Gil Ramos, Sourav Bhattacharya)
Built well-curated 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.

Advanced Networking Lab., KAIST — DAEJEON, KOREA
Undergraduate Researcher — JUL. 2014 ∼ MAR. 2015
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.

PUBLICATIONS

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, 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

WORK EXPERIENCES

Content N — SEOUL, KOREA
Lead Software Engineer — OCT. 2013 ∼ MAR. 2014
Designed and developed back-end systems for a mobile arcade game, *Sushi Master*, using Amazon AWS, Node.js, MongoDB, and Redis. Developed data analysis tool and web interface for game statistics.

Company 100, Inc. — SEOUL, KOREA
Software Engineer — 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. — SEOUL, KOREA
Software Engineer — 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
Intern — SEP. 2010 ∼ DEC. 2010
Developed an in-game chat module in *BubbleFighter* 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

- **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, CHI 2019, 2020, MobileHCI 2019, ISWC 2020
	Student Volunteer	Ubicomp 2019, 2020

AWARDS	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