

2133 Sheridan Rd, Room 3.230
Evanston, IL, 60208

(847) 219-0252
yk@u.northwestern.edu
<http://www.yongsungkim.com>

YONGSUNG KIM

Education **Northwestern University**

2014–present. PhD in *Technology and Social Behavior*.

Thesis: *Coordinating Opportunistic Contributions to Achieve Globally Effective Outcomes in On-the-go Crowdsourcing*

Committee: Haoqi Zhang (Chair), Darren Gergle, Aaron Shaw, Eric Horvitz

Swiss Federal Institute of Technology in Lausanne (EPFL)

2010–2013. Master of Science. Major in *Computer Science*

Tsinghua University

2005–2009. Bachelor of Engineering. Major in *Computer Science*

Research **Delta Lab, Northwestern University**

Experience 2014–present. Research Assistant. Advisor: Dr. Haoqi Zhang

Design, build, and empirically evaluate intelligent systems that opportunistically recruit members in a community to make small, convenient contributions to flexibly and efficiently achieve collective goals through their existing routines.

Social Dynamics Group, Bell Labs

06/2018–08/2018. Data Science Research Intern. Mentors: Dr. Luca Aiello, Dr. Daniele Quercia

Characterized and categorized common daily activities with music features, and developed a music recommender system for motivating daily activities.

Information and Data Sciences Group, Microsoft Research

06/2017–08/2017. Research Intern. Mentors: Dr. Adam Fourney, Dr. Ece Kamar

Studied preferences and concerns about accidental information disclosure in notifications.

Interactive Computing Lab, Korea Advanced Institute of Science and Technology (KAIST)

06/2013–08/2013. Research Intern. Advisor: Dr. Uichin Lee

Analyzed location-based Q&A dataset to understand the topical and typological patterns related to the geographic characteristics, geographic locality of user activities. Conducted a survey to understand motivations of local knowledge sharing.

Publications **Papers Under Review**

2020. **Yongsung Kim**, Darren Gergle, Haoqi Zhang. Opportunistic Supply Management: A Decision-theoretic Approach to Balance Helper Needs and System Efficiency in On-the-go Crowdsourcing. *Proceedings of the 23rd ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW '20)*. (Under Review)

Peer-Reviewed Conference and Journal Papers

2020. **Yongsung Kim**, Luca Aiello, Daniele Quercia. Motivational Qualities of Songs for Daily Activities. *EPJ Data Science*.

2019. Kapil Garg, **Yongsung Kim**, Darren Gergle, Haoqi Zhang. 4X: A Hybrid Approach for Scaffolding Data Collection and Interest in Low-Effort Participatory Sensing. *Proceedings of the 22nd ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW '19)*. ACM, Austin, Texas.

2019. **Yongsung Kim**, Adam Fourney, Ece Kamar. Studying Preferences and Concerns About Information Disclosure in Email Notifications. *Proceedings of World Wide Web Conference (WWW '19)*. ACM, San Francisco, California.
2018. **Yongsung Kim**, Darren Gergle, Haoqi Zhang. Hit-or-Wait: Coordinating Opportunistic Low-effort Contributions to Achieve Global Outcomes in On-the-go Crowdsourcing. *Proceedings of ACM Conference on Human Factors in Computing Systems (CHI '18)*. ACM, Montreal, Canada.
2017. **Yongsung Kim**, Aaron Shaw, Haoqi Zhang, and Elizabeth Gerber. Understanding Trust amid Delays in Crowdfunding. *Proceedings of the 20th ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW '17)*. ACM, Portland, Oregon.
2016. **Yongsung Kim**, Emily Harburg, Shana Azria, Aaron Shaw, Elizabeth Gerber, Darren Gergle, and Haoqi Zhang. Studying the Effects of Task Notification Policies on Participation and Outcomes in On-the-go Crowdsourcing. *Fourth AAAI Conference on Human Computation and Crowdsourcing (HCOMP '16)*. AAAI, Austin, Texas.
2016. Katherin Lin, Henry Spindell, Scott Cambo, **Yongsung Kim**, and Haoqi Zhang. Habitsourcing: Sensing the Environment through Immersive, Habit-Building Experiences. *Proceedings of the 29th Annual ACM Symposium on User Interface Software & Technology (UIST '16)*. ACM, Tokyo, Japan.
2014. Sangkeun Park, **Yongsung Kim**, Uichin Lee, Mark Ackerman. Understanding localness of knowledge sharing: a study of Naver KiN 'here'. *Proceedings of the 16th International Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI '14)*. ACM, Toronto, Canada.

Extended Abstracts, Workshop Papers, and Works-in-Progress

2015. **Yongsung Kim**, Emily Harburg, Shana Azria, Elizabeth Gerber, Darren Gergle, and Haoqi Zhang. Enabling Physical Crowdsourcing On-the-go with Context-Sensitive Notifications. *Third AAAI Conference on Human Computation and Crowdsourcing (HCOMP '15)*. AAAI, San Diego, LA.
2015. **Yongsung Kim**. Libero: On-the-go Crowdsourcing for Package Delivery. *Proceedings of ACM Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '15)*. ACM, New York, NY, USA. *1st place, Student Research Competition*.
2015. Emily Harburg, **Yongsung Kim**, Elizabeth Gerber, Haoqi Zhang. CrowdFound: A Mobile Crowdsourcing System to Find Lost Items On-the-Go. *Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems (CHI EA '15)*. ACM, New York, NY, USA.
2013. **Yongsung Kim**, Julien Eberle, Erol Un, Riikka Haninnen, Karl Aberer. Mobile Observatory: an Exploratory Study of Mobile Air Quality Monitoring Application. *Workshop on Human Interfaces for Civic and Urban Engagement (HiCUE) in Ubicomp 2013*. ACM, Zurich, Switzerland.
2013. Erol Un, Julien Eberle, **Yongsung Kim**, Karl Aberer. A Model-based Back-end for Air Quality Data Management. *Workshop on Pervasive Urban Crowdsensing Architecture and Applications (PUCCA) in Ubicomp 2013*. ACM, Zurich, Switzerland.
2013. **Yongsung Kim**, Daishi Kato, Kazuo Kunieda, Keiji Yamada. Preliminary User Study for Gratitude and Reciprocity in a Q&A System. *Proceedings of the 2013 conference on Computer supported cooperative work companion (CSCW '13)*. ACM, San Antonio, TX, USA.

Teaching and Mentoring

Teaching
 Design, Technology, and Research (COMP_SCI 315, 497). Instructor. Winter 2020–present.
 Design, Technology, and Research (COMP_SCI 315, 497). SIG Mentor. Fall 2014–present.
 Social and Crowd Computing (EECS 395/495). Teaching Assistant. Fall 2015.

Undergraduate Research Advising

Abizar Bagasrawala

09/2019–present. Advise research on Relational development in On-the-go crowdsourcing.

Maggie Lou, Sam Nazer, and Cooper Barth

03/2018–present. Advise research on Last mile problem in On-the-go crowdsourcing.

Olivia Barnett, Priya Shah, and Eli Cohen

09/2017–06/2018. Advised research on Dynamic Habitsourcing.

Alaina Kafkes

09/2016–03/2017. Advised research on Scaffolding Habitsourcing: Interactions and Methods.

Sasha Weiss

03/2016–12/2017. Advised research on Context-aware Microreminder.

Kapil Garg

01/2016–06/2017. Advised research on 4X: Scaffolding Low-Effort Sensing.

Work led to paper “4X: A Hybrid Approach for Scaffolding Data Collection and Interest in Low-Effort Participatory Sensing” at CSCW’19.

Katherine Lin and Henry Spindell

03/2015–05/2016. Advised research on Habitsourcing: Build personal habits with immersive experiences that collect environmental data.

Work led to paper “Habitsourcing: Sensing the Environment through Immersive, Habit-Building Experiences” at UIST’16.

Shana Azria

12/2014–03/2016. Advised research on On-the-go crowdsourcing for package delivery.

Work led to paper “Studying the Effects of Task Notification Policies on Participation and Outcomes in On-the-go Crowdsourcing” at HCOMP’16.

Aaron Loh

09/2015–12/2015. Advised research on Low-effort crowdsourcing.

Awards Segal Design Cluster Fellowship, 2015
1st Place, Student Research Competition at CHI 2015

Service **Reviewer**
CHI 2018, 2020, CSCW 2018, 2019, Ubicomp 2019, UIST 2019, WWW 2017

References Dr. Haoqi Zhang - Associate Professor of Computer Science (Northwestern University)
Dr. Darren Gergle - Professor of Communication Studies, Director of Graduate Studies - Technology and Social Behavior (Northwestern University)
Dr. Adam Fourney - Senior Researcher (Microsoft Research)