

# Young-Ho Kim

BK21 Postdoctoral Researcher

Human-Computer Interaction Lab

Dept. of Computer Science & Engineering, Seoul National University

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## About

Young-Ho Kim is a postdoctoral researcher at Human-Computer Interaction Lab, Seoul National University. His main research area is **Human-Computer Interaction** and **Personal Informatics**. With a background of *Computer Science* and *Visual Communication Design*, he designs interactive, visual, and mobile self-tracking systems to meet people's diverse tracking needs by providing flexible user interfaces to design, collect, and visualize the personal information.

## Employment

### Seoul National University

#### BK21 Postdoctoral Researcher

Human-Computer Interaction Lab, Dept. of Computer Science & Engineering

Supervisor: Jinwook Seo

*Seoul, South Korea*

*Mar 2019 – Present*

### I-UM Socius

#### UI/UX Visual Designer @ Brand Experience Design Team

Participated in designing the first Korean social dating service, I-UM.

Supervisor: Kyungho Lee (Chief Creative Officer)

*Seoul, South Korea*

*Mar 2011 – Jun 2012*

## Education

### Seoul National University

#### Ph.D. in Computer Science and Engineering

Dept. of Computer Science & Engineering, College of Engineering

Human-Computer Interaction Laboratory

Advisor: Jinwook Seo

Dissertation Committee: Sang-goo Lee, Bongwon Suh, Bongshin Lee, and Eun Kyoung Choe

*Seoul, South Korea*

*Sep 2012 – Feb 2019*

### Seoul National University

#### Bachelor of Fine Arts in Design, Cum Laude

Major of Visual Communication Design, Dept. of Craft & Design, College of Fine Arts

Advisor: Suzung Kim

*Seoul, South Korea*

*Mar 2007 – Feb 2011*

## Honors and Awards

2019

### Outstanding Ph.D. Dissertation Award

Received from Dept. of Computer Science & Engineering,  
Seoul National University

*South Korea*

2017	<b>Naver Ph.D. Fellowship Award</b> Received research grant from Naver Corporation	South Korea
2011	<b>iF Design Award Nominee</b> Social Dating Service, I-UM	Germany
2011	<b>Graduation with Distinction (Rank First)</b> Dept. of Craft & Design, Seoul National University	South Korea
2007 – 2010	<b>Outstanding Academic Scholarship (Tuition)</b> Dept. of Craft & Design, Seoul National University	South Korea

## Skills

<b>Visual Communication Design</b>	Designing and presenting through the <b>visual language</b> and drawing graphical elements and artworks at production level <i>Web/app design, GUI design, Graphic design</i>
<b>Technical Implementation</b>	Implementing ideas at hi-fidelity prototype level <i>Mobile development using Java &amp; Kotlin Android Desktop development using WPF and Swift, Web development using Angular, Ruby on Rails, and D3.js visualization Server Backend using Express.js and Node.js</i>
<b>Mixed Method User Research</b>	Conducting user studies in various methods and analyzing the result, especially in-situ field deployment studies with hi-fidelity prototypes of digital applications and collecting user behavioral data <i>Field deployment study, Usability testing, Interviews, Surveys</i>

## Publication

### International Journal

2017	<b>[J1] OmniTrack: A Flexible Self-Tracking Approach Leveraging Semi-Automated Tracking</b> <u>Young-Ho Kim</u> , Jae Ho Jeon, Bongshin Lee, Eun Kyoung Choe, and Jinwook Seo Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), Volume 1, Issue 3, Article 67, 28 pages. Also presented at ACM UbiComp 2017, Maui, Hawaii, USA. <b>Acceptance Rate 9 %</b> DOI: <a href="https://doi.org/10.1145/3130930">https://doi.org/10.1145/3130930</a> Video: <a href="https://www.youtube.com/watch?v=zRluENNRjEM">https://www.youtube.com/watch?v=zRluENNRjEM</a>	Journal Article
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### International Conference

2019	<b>[C3] Toward Becoming a Better Self: Understanding Self-Tracking Experiences of Adolescents with Autism Spectrum Disorder Using Custom Trackers</b> Sung-In Kim, Eunkyung Jo, Myeonghan Ryu, Inha Cha, <u>Young-Ho Kim</u> , Heejeong Yoo, and Hwajung Hong In Proceedings of the 13th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth'19). To appear.	Full Paper
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- 2019 [C2] Understanding Personal Productivity: How Knowledge Workers Define, Evaluate, and Reflect on Their Productivity** *Full Paper*  
Young-Ho Kim, Eun Kyoung Choe, Bongshin Lee, and Jinwook Seo  
 In Proceedings of ACM CHI Conference on Human Factors in Computing Systems (CHI'19).  
 ACM, New York, NY, USA, 12 pages. To appear.  
**Acceptance Rate 23.8%**  
 DOI: <http://dl.acm.org/citation.cfm?doid=10.1145/3290605.3300845>  
 Video: <https://www.youtube.com/watch?v=-2FgifBQz4E>
- 2016 [C1] TimeAware: Leveraging Framing Effects to Enhance Personal Productivity** *Full Paper*  
Young-Ho Kim, Jae Ho Jeon, Eun Kyoung Choe, Bongshin Lee, KwonHyun Kim, and Jinwook Seo  
 In Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (CHI '16).  
 ACM, New York, NY, USA, 272–283.  
**Acceptance Rate 23.4%**  
 DOI: <http://dl.acm.org/citation.cfm?doid=2858036.2858428>  
 Video: <https://www.youtube.com/watch?v=HQ5pmFkHhsk>

### Domestic Publication (Korean)

- 2019 [D7] A study for specializing a Chatbot-based Self-Management Program for Adolescents with Autism Spectrum Disorder** *Note*  
 Sung-In Kim, Myeonghan Ryu, Eunkyung Jo, Inha Cha, Young-Ho Kim, Heejeong Yoo, and Hwajung Hong  
 In Proceedings of HCI Korea, Feb 13-16 in Jeju, South Korea.
- 2016 [D6] Designing a Flexible Self-Tracking Mobile Application** *Poster*  
Young-Ho Kim, Jae Ho Jeon, Bongshin Lee, Eun Kyoung Choe, and Jinwook Seo  
 In Proceedings of Korea Software Congress 2016 Winter
- 2016 [D5] Ensemble Box – A Digital Orgel Supporting Drawing Melodies in Various Timbres** *Poster*  
Young-Ho Kim, Jeongin Hwang, and Jinwook Seo  
 In Proceedings of Korea Software Congress 2016 Summer
- 2014 [D4] AntHouse: A Novel Visualization Interface about Exploring Social Relationship from Email History** *Note*  
Young-Ho Kim, Jae Ho Jeon, and Jinwook Seo  
 In Proceedings of HCI Korea, Feb 12-14 in Jeongseon, South Korea.
- 2014 [D3] Design and Development of Visual Analytics Tool in SRC-STAT** *Note*  
 GuHyun Han, Young-Ho Kim, DongHwa Shin, Young Jo Lee, and Jinwook Seo  
 In Proceedings of HCI Korea, Feb 12-14 in Jeongseon, South Korea.
- 2014 [D2] A Design Study for a Visualization/analysis System for Petroleum Reservoir Simulation Data** *Note*  
 Kyle Koh, Young-Ho Kim, and Jinwook Seo  
 In Proceedings of HCI Korea, Feb 12-14 in Jeongseon, South Korea.
- 2014 [D1] Suggestion for Facebook Friend-Sourcing Gallery Service: Focusing on Daily Activities based on Weather Data** *Poster*  
 Sumi Kim, Young-Ho Kim, and Bongwon Suh  
 In Proceedings of HCI Korea, Feb 12-14 in Jeongseon, South Korea.

## Miscellaneous

- 2019 [M1] Designing Flexible Self-Tracking Technologies for Enhancing *In Situ* Data Collection Capability** *Doctoral Consortium*  
Young-Ho Kim  
In Proceedings of HCI Korea, Feb 13-16 in Jeju, South Korea.

## Major Research Projects

- Visualizing Source Code and Individual Productivity for Massive Developer Team** *Samsung Electronics*  
*July 2017 ~ September 2018*  
Leading the research team as a project manager.
- Semi-Automated Chart Image Recognition and Data Extraction** *Hancom Corporation*  
*October 2014 - March 2015*  
Participated in designing the system interface and interaction flow of the chart recognition system.
- Designing & Developing Statistics and Visualization Suite** *Seoul National University*  
*May 2013 - April 2014*  
Participated in designing and implementing a visual analytics suite, SRC-Stat.  
<http://srcdsc.snu.ac.kr/srcstat>

## Media Coverage

- Study looks at how to ignore digital distractions at work** *The Horizons Tracker*  
<http://adigaskell.org/2016/08/08/study-looks-at-how-to-ignore-digital-distractions-at-work/>  
*Adi Gaskell, August 8, 2016*
- Professor studies how apps can affect productivity** *Phys.org*  
<https://phys.org/news/2016-07-professor-apps-affect-productivity.html>  
*Katie Bohn, July 7, 2016*
- Professor studies how apps can affect productivity** *Penn State News*  
Research team designed new web app to help users' productivity  
<http://news.psu.edu/story/416400/2016/07/01/research/professor-studies-how-apps-can-affect-productivity>  
*Katie Bohn, July 1, 2016*

## Talks

- Visible Language Meets Engineering Language: Designing Interactive Information Visualization Systems to Nudge People** *Korea Institute of Design Promotion*  
'Dessert Seminar' (BBL)  
*Apr 2019*
- HCI, Personal Informatics, and Information Visualization: Being (Surviving as) an HCI Researcher in Engineering Fields without Losing Designer's Soul** *Seoul National University*  
Guest Lecture in Design Research Class (Dept. of Design), hosted by Mingu Lee  
*Mar 2019*
- Designing Flexible Self-Tracking Technologies to Enhance *In Situ* Data Collection** *Hanyang University*  
Invited Talk  
*Mar 2019*
- Understanding Personal Productivity: How Knowledge Workers Define, Evaluate, and Reflect on Productivity** *Seoul National University*  
The 4<sup>th</sup> SNU HCI Group Summit  
*Aug 2018*

### **Designing the HCI Technology for Flexible, Semi-Automated Personal Tracking Experience**

Guest Lecture in Creative Research Practice Class (Prof. Hwajung Hong)

*Seoul National University*

*Apr 2018*

### **Designing the HCI Technology for Flexible, Semi-Automated Personal Tracking Experience**

Invited Speaker in Naver Tech Talk

*Naver Corp., Korea*

*Mar 2018*

### **A Flexible Self-Tracking Approach Leveraging Semi-Automated Tracking**

The 3<sup>rd</sup> SNU HCI Group Summit

*Seoul National University*

*Aug 2017*

### **Leveraging Framing Effects to Enhance Personal Productivity**

The 2<sup>nd</sup> SNU HCI Group Summit

*Seoul National University*

*Aug 2016*

## **Exhibitions**

### **HCIK '11 (Korean HCI Society Annual Conference 2011)**

Presented a serious game using NeuroSky Mindset, 'Hans and Gretel.'

*Yongpyung, South Korea*

*Jan 2011*

### **SIGGRAPH ASIA 2010 Seoul**

Participated in an exhibition of Intermedia Lab in SNU

An Interactive Alphabet Education Application, 'Particle Zoo' was presented.

*Seoul, South Korea*

*Dec 2010*

### **Korea Serious Game Festival 2010**

Participated in an Exhibition of SNU AICT (Advanced Institute of Convergence Technology).

*Bundang, South Korea*

*Sep 2010*

### **Gyeonggi Gwangyo Technovalley Exhibition**

Participated in an Exhibition of SNU AICT (Advanced Institute of Convergence Technology).

*Suwon, South Korea*

*Sep 2010*

## **Teaching and Lecturing**

### **Teaching Assistant & D3.js Tutorial Lecture**

**Information Visualization & Visual Analytics** Class for Graduate Students, Dept. of CSE

Prof. Jinwook Seo

*Seoul National University*

*2016 Fall*

### **D3.js Guest Lecture**

**Visual Analytics** Class for Graduate Students, College of Informatics

Prof. Jaegul Choo

*Korea University*

*Sep 2015*

### **C Programming Teaching Assistant & Tutorial Lecturer**

**Programming Practice** (Undergraduate Programming 101), Dept. of CSE

Prof. Jinwook Seo

*Seoul National University*

*2013 Fall*

## **Community Services and Activities**

### **Volunteer work for Myanmar Refugees in Malaysia**

A Missionary trip to the school for refugees in order to help dispatched missionaries.

*Kuala Lumpur, Malaysia*

*Jun 2010 – Jul 2010*

### **Cofounder of SNU Game Developer Club, SNUGDC**

Cofounded an official game developer club in the university, as vice president for the

April 2019

*Seoul, South Korea*

*2009*

first 2 years.

**Cofounder of an Indie Game Developer Team, SNUBIE**

Founded an indie game team with 4 other colleagues at university.

*Seoul, South Korea*

*2008 - 2010*

**Campaign Trip for Prevention of Desertification of Inner Mongolia**

A Missionary trip to the school for refugees in order to help dispatched missionaries.

*Xilinhot, Inner Mongolia*

*Jul 2007*

## Academic Society and Services

**Paper Reviewing**

ACM CHI (2017, 2019)

ACM DIS (2018)

Workshop on Ubiquitous Personal Assistance in ACM UbiComp (2018)

PACM IMWUT (2017 Aug)

INTERACT (2019)

**Committee**

IEEE PacificVis 2017 (Design Chair)

Workshop on Ubiquitous Personal Assistance in ACM UbiComp 2018

(Technical Program Committee)

**Student Volunteer**

ACM CHI 2016

IEEE PacificVis 2017

## References

**Jinwook Seo**

Associate Professor, Dept. of Computer Science & Engineering, Seoul National University

Ph.D Advisor

**Szung Kim**

Associate Professor, Dept. of Visual Communication Design, Seoul National University

B.F.A Advisor

**Kyungho Lee**

Research Fellow, National Center for Supercomputing Applications, UIUC

Supervisor at I-UM Socius as a chief creative officer