

Sungkyu Shaun Park, Ph.D.

CONTACT INFORMATION	Data Science Group, Institute for Basic Science (IBS) 55, Expo-ro, Yuseong-gu, Daejeon, Republic of Korea, 34126	e-mail: shaun01.park@gmail.com
RESEARCH INTERESTS	Understanding human behaviors and psychiatric disorders in real world through the lens of large-scale data (e.g., mobile-sensing user logs, online social network logs, and so on) <ul style="list-style-type: none">• Predicting and interpreting the degree of disorders utilizing deep-learning approaches• Discovering users' unique traits driving the disorders• Developing customized mobile intervention applications	
EDUCATION	Korea Advanced Institute of Science and Technology (KAIST) , Daejeon, South Korea <i>Ph.D. in Graduate School of Culture Technology</i> August 2020 <ul style="list-style-type: none">• Thesis Topic: Neural Network-based Learning of Sleep Patterns and Application-driven Interventions• Advisor: Dr. Meeyoung Cha Korea Advanced Institute of Science and Technology (KAIST) , Daejeon, South Korea <i>M.S. in Graduate School of Web Science Technology, School of Computing</i> August 2014 <ul style="list-style-type: none">• Thesis Topic: Exploring depressive moods through the lens of online social behaviors• Advisor: Dr. Meeyoung Cha Sungkyunkwan University , Suwon, South Korea <i>B.S. in Information and Communication Engineering</i> February 2009	
SELECTED PUBLICATIONS	S. Park , M. Constantinides, L. M. Aiello, D. Quercia, and P. v. Gent. WellBeat: A Framework for Tracking Daily Well-being Using Smartwatches. <i>IEEE Internet Computing – Special Issue on the Internet of Bodies</i> , accepted for the publication, 2020. <i>Impact Factor = 4.231 [SCIE]</i> S. Han , S. Park, S. Park , S. Kim, and M. Cha. Mitigating Embedding and Class Assignment Mismatch in Unsupervised Image Classification. In <i>proc. of the 2020 European Conference on Computer Vision (ECCV 2020)</i> , accepted for the publication, 2020. <i>Acceptance rate for full paper = 27.1%</i> S. Park , S. W. Lee, S. Han, and M. Cha. Clustering Insomnia Patterns by Data from Wearable Devices: Algorithm Development and Validation. <i>JMIR Mhealth and Uhealth (JMU)</i> , 2019. doi:10.2196/14473. <i>Impact Factor = 4.301 [SCIE]</i> S. Park , C. T. Li, S. Han, H. Cheng, S. W. Lee, and M. Cha. Learning Sleep Quality from Daily Logs, In <i>proc. of the 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)</i> , accepted for the publication, 2019. <i>Acceptance rate for full paper = 14.2%</i> S. Park , S. W. Lee, and M. Cha. Exploring Insomnia-related Clusters based on Intricate Relationship Among Behavioral, Biological, and Sleeping Data: Focusing on a Smart Band Wearing Experiment, In <i>proc. of the Korean DataBase Conference (KDBC)</i> , 2018. (Korean) S. Park , S. W. Lee, and M. Cha. Exploring intricate relationship among behavioral, biological, and sleeping dimensions, In <i>proc. of the International School and Conference on Network Science (NetSci)</i> , accepted for the oral presentation, 2018.	

S. Park, I. Kim, and M. Cha. Mobile calling patterns are linked to young adults' mental health, In *proc. of the International Workshop on Data and Text Mining in Biomedical Informatics (DTMBIO)*. CIKM, accepted for the oral presentation, 2017.

S. Park, J. Park, S. Cho, and J. Won. Approaches to Successful Entry of the Ride-sharing Service for Startups. In *proc. of ACM CHI Conference Extended Abstracts on Human Factors in Computing Systems*, 2017.

S. W. Lee, I. Kim, J. Yoo, **S. Park**, B. Jeong, and M. Cha. Insights from an expressive writing intervention on Facebook to help alleviate depressive symptoms, In *Elsevier Computers in Human Behavior*, 62: 613-619, 2016. *Impact Factor = 2.694 [SSCI]*

I. Kim, S. W. Lee, **S. Park**, J. Yoo, M. Cha, and B. Jeong. Designing an expressive writing platform for young adults in Korea. In *proc. of ACM CHI Workshop on HCI and Health*, 2015.

S. Park, I. Kim, S. W. Lee, J. Yoo, B. Jeong, and M. Cha. Manifestation of Depression and Loneliness on Social Networks: A Case Study of Young Adults on Facebook. In *proc. of the ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)*, accepted for the publication, 2015. *Acceptance rate for full paper = 28%*

S. Park, S. W. Lee, J. Kwak, M. Cha, and B. Jeong. Activities on Facebook Reveal the Depressive State of Users. *Journal of Medical Internet Research (JMIR)*, 15(10):e217, 2013. doi:10.2196/jmir.2718. *Impact Factor = 4.7 [SCIE]*

PATENTS

S. Park, S. W. Lee, and J. Won. Method and apparatus for providing insomnia intervention service, South Korea, Patent No. 10-2141804 July 31, 2020

J. Park and **S. Park**. Mobile taxi-pooling service companion recommendation method and device using trust networks, South Korea, Patent No. 10-1813779 December 22, 2017

J. Park and **S. Park**. Mobile taxi-pooling service charging method and device, South Korea, Patent No. 10-1813780 December 22, 2017

INVITED TALKS

Successfully entering the ride-sharing industry: focusing on infrastructure development and service operation, Uiwang, South Korea June 13, 2017

- Hyundai Motor Group

Facebook activities reveal the depressive states of users, Daegu, South Korea December 13, 2013

- Daegu Gyeongbuk International Social Network Conference (DISC) 2013

TEACHING EXPERIENCE

Teaching Assistant, KAIST GCT576 - Social Computing Fall 2018

Teaching Assistant, KAIST CS564 - Introduction to Big Data Analytics Using R Spring 2018

Instructor, Kangnam University - Youth Career Academy Mentoring: Big Data Expert Course for Senior Undergraduate Students January – February 2016

PROFESSIONAL EXPERIENCE

Postdoctoral Fellowship at Institute for Basic Science (IBS), Daejeon, Korea (Full-time) **Sep. 2020 – Present**
Chief Investigator: Dr. Meeyoung Cha

- *Data Science Group, Center for Mathematical and Computational Sciences*
- Focused on four research domains: 1) mental health; 2) text mining; 3) unsupervised learning; 4) cultural analytics

Research Intern at Nokia Bell Labs, Cambridge, United Kingdom (Full-time)

June – August 2019

Department Head: Dr. Daniele Quercia

- *Social Dynamics Team*
- Developed a smartwatch application that can retrieve health signals and self-reported mood data

Co-founder & Chief Operating Officer at Kaniza Lab Co., Ltd, Seoul, Korea March 2015 – January 2017

- *Business Operation and Data Analysis Team (Full-time)*
- Launched and managed two mobile-based on-demand platforms on public transportation domains

Research Engineer at Samsung Electronics, Suwon, South Korea (Full-time)

January 2009 – April 2012

Director: Mr. David Yoonwoo Lee

- *Standards Certification Lab. in Business Planning Group at Visual Display Business*
- Dealt with standardization of technical formats on TV and home entertainment products

TECHNICAL
SKILLS

Fluency in quantitative methods: statistics, machine- and deep-learning, and social network analysis
Programming: Python, TensorFlow, PyTorch, R, MATLAB, JavaScript, and C