Sungkyu Shaun Park

CONTACT INFORMATION

Data Science Laboratory
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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)

- 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

Ph.D. Candidate in Graduate School of Culture Technology September 2014 – Present

Advisor: Dr. Meeyoung Cha

Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea

M.S. in Graduate School of Web Science Technology, School of Computing August 2014

Advisor: Dr. Meeyoung Cha

Sungkyunkwan University, Suwon, South Korea

B.S. in Information and Communication Engineering February 2009

SELECTED PUBLICATIONS

S. Park, S. W. Lee, S. Han, and M. Cha. Clustering Insomnia Patterns by Data from Wearable Devices: Algorithm Development and Validation. *JMIR Mhealth and Uhealth (JMU)*, 2019. doi:10.2196/14473. *Impact Factor = 4.301* **[SCIE]**

S. Park, C. T. Li, S. Han, H. Cheng, S. W. Lee, and M. Cha. Learning Sleep Quality from Daily Logs, In *proc. of the 25th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, accepted for the publication, 2019. *Acceptance rate for full paper = 14.2%*

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 *proc. of the Korean DataBase Conference (KDBC)*, 2018. (Korean)

S. Park, S. W. Lee, and M. Cha. Exploring intricate relationship among behavioral, biological, and sleeping dimensions, In *proc. of the International School and Conference on Network Science (NetSci)*, 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]**

S. Park, J. Kwak, S. W. Lee, M. Cha, and B. Jeong. Activities on Facebook Reveal Depressive State of Users. In *proc. of the World Congress on Social Media, Mobile Apps, Internet/Web 2.0 (Medicine 2.0)*, 2013.
(Short paper)

K. Park, J. Park, **S. Park**, J. Kim, S. Kwon, J. Kwak, and M. Cha. Voice of the Employees Resonated in Online Bamboo Forests. In *proc. of the AAAI ICWSM Workshop on Social Computing for Workforce 2.0*, 2013.
(Short paper)

INVITED TALKS

How to successfully enter the ride-sharing market: share experiences from a service operating perspective, Daejeon, South Korea — October 17, 2017

- Korea Aerospace Research Institute (KARI)

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

Research Intern at Institute for Basic Science (IBS), Daejeon, Korea (Full-time) — January 2019 – Present
Chief Investigator: Dr. Meeyoung Cha

- *Data Science Group, Center for Mathematical and Computational Sciences*
- Focused on mainly three research domains: 1) mental health; 2) fake news; 3) unsupervised learning

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