

Sangyoon Lee

CONTACT	Ph.D. student School of Computing, KAIST <i>Email:</i> pinetree408@gmail.com <i>URL:</i> http://github.com/pinetree408	Kim Byung Ho IT Building (N1) #722 KAIST, 291 Daehak-ro, Yuseong-gu Daejeon 34141, Republic of Korea
RESEARCH INTERESTS	Human-Computer Interaction	
EDUCATION	Korea Advanced Institute of Science and Technology (KAIST) Ph.D. student in Computer Science <i>Advisor:</i> Geehyuk Lee, Ph.D.	Daejeon, Korea MAR. 2018 – Present
	Korea Advanced Institute of Science and Technology (KAIST) M.S. in Computer Science <i>Thesis:</i> “Diagnosing and Coping with Mode Errors in using a Dual-language Keyboard” <i>Advisor:</i> Geehyuk Lee, Ph.D.	Daejeon, Korea 2018
	Korea Advanced Institute of Science and Technology (KAIST) B.S. in Computer Science	Daejeon, Korea 2016
PUBLICATIONS	International Conference Papers <ol style="list-style-type: none">1. MirrorPad: Mirror on Touchpad for Direct Pen Interaction in the Laptop Environment Sangyoon Lee, Youn-kyung Lim, Geehyuk Lee CHI 2020 (To appear)2. Voice+Tactile: Augmenting In-vehicle Voice User Interface with Tactile Touchpad Interaction Jingun Jung, Sangyoon Lee, Jiwoo Hong, Eunhye Youn, and Geehyuk Lee CHI 2020 (To appear)3. Diagnosing and Coping with Mode Errors in Korean-English Dual-language Keyboard Sangyoon Lee, Jaeyeon Lee, Geehyuk Lee CHI 20194. Auto-switching List Search Interface for Touchscreen Smartwatches Jingun Jung, Sangyoon Lee, Sunggeun Ahn, and Geehyuk Lee MobileHCI 2018 Domestic Conference Papers <ol style="list-style-type: none">1. Diagnosing and Coping with Annotation Distribution Problem in PDF Sangyoon Lee and Geehyuk Lee HCI Korea 2020 (To appear)2. First Principles Study of spin polarization in Fe-doped monolayer C₂N-h₂D Sangyoon Lee and Geumbi Jung EDISON Challenge 20163. An experimental comparison of user postures between tabletbased reading activities and book-based reading activities Sangyoon Lee KCC 2015 Extended Abstracts: Posters and Demos	

1. **Verge-it: Gaze Interaction for a Binocular Head-Worn Display using Modulated Disparity Vergence Eye Movement**
Sunggeun Ahn, Jeongmin Son, **Sangyoon Lee** and Geehyuk Lee
CHI 2020 (To appear)
2. **MirrorPad: A Touchpad for Direct Pen Interaction on a Laptop**
Sangyoon Lee and Geehyuk Lee
ISS 2019

Patents

1. **Smart-toggle for auto recovering from Korean-English mode errors**
KR Patent Application. 10-2019-0060681, 2019-05-23.

WORK EXPERIENCE

Gold Spoon MAY. 2015 – FEB. 2016
Software Engineer, Co-Founder
- Backend engineer, API server construction
Skills: Django, Go, Meteor, MongoDB, AWS, React.js, Youtube API

Langpoo JAN. 2015 – MAR. 2015
Software Engineer
- Backend engineer, API server construction
Skills: Django, AWS, RabbitMQ, Android GCM

Graduate School of Science and Technology Policy, KAIST JUN. 2014 – JAN. 2015
Work-study Program
- Homepage renewal

Computational Nanotech Lab, KAIST JAN. 2014 – DEC. 2015
Research Intern & Software Engineer
- Hybrid Interface Materials DB construction
- Application of the Machine Learning Algorithm to Electronic Structure Calculations
Skills: Django, Mysql, Scikit-learn, Machine Learning techniques, Tensorflow
Publications:

1. **Application of the Machine Learning Algorithm to Electronic Structure Calculations: A Test Case of B/N-doped Graphene**
Kim, et al
KPS, 2016.
- Contribution in developing the web application & machine learning techniques.

Interactive Computing Lab, KAIST JAN. 2014 – MAR. 2014
Research Intern
- Machine State Estimation Using Electric Current Measurement Sensor
Skills: Android

Social Computing Lab, KAIST MAY. 2013 – JUN. 2015
Research Intern & Software Engineer
- User Depression Mitigation Project
Skills: Facebook login API, Flask, Django, Html, Javascript, CSS
Publications:

1. **Manifestation of depression and loneliness on social networks: a case study of young adults on Facebook**
Park, Sungkyu, et al
CSCW, 2015.
- Contribution in developing the web application.

	Intelligence in Science & Technology, KISTI Summer Intern - Big data(scientist's bio) analysis and processing <i>Skills:</i> Mysql, Java, Hadoop, MapReduce	JUN. 2013 – AUG. 2013
ACTIVITIES	CS Undergraduate Student Council, KAIST President CS Undergraduate Student Council, KAIST Vice Representative of '12	JAN. 2014 – JAN. 2015 JAN. 2013 – JAN. 2014
AWARDS	Naver '19 PhD Fellowship PhD Fellowship Award ISS '19 Demonstration Honorable Mention Demo Award UIST '17 Student Innovation Contest People's Choice award	Fall 2019 Fall 2019 Fall 2017
OPEN SOURCE CONTRIBUTION	Konlpy, Konlpy Python package for Korean natural language processing <i>Url:</i> https://github.com/konlpy/konlpy PinPoint, Naver Pinpoint is an open source APM (Application Performance Management) tool for large-scale distributed systems written in Java <i>Url:</i> https://github.com/naver/pinpoint	MAY. 2016 – Present DEC. 2014 – Present
OPEN SOURCE PROJECT	Web Speech AI for youtube player This project is a speech-ai for managing youtube video player. This is a wrapper server written by Flask to integrate http://api.ai/ and Mozilla Web speech recognition api <i>Url:</i> https://github.com/pinetree408/speech-ai Wrist Gesture Recognizer On Smartwatch This project recognizes four wrist gesture on smartwatch with machine learning technique(SVM) <i>Url:</i> https://github.com/pinetree408/tilt_selection_server BookmarksReminder This chrome extension gives you a reminder alarm for bookmarks <i>Url:</i> https://chrome.google.com/webstore/detail/bookmarksreminder/jeedgkkmnjonkoefmnhokohkbheoeadi korean-corpus-generator Python package for Korean corpus generating <i>Url:</i> https://github.com/pinetree408/korean-corpus-generator VFT Visualization Tool for Filtering Test Logs based on Eclipse plug-in <i>Url:</i> https://github.com/pinetree408/VFT django-facebook-auth Django facebook auth helper <i>Url:</i> https://pypi.python.org/pypi/django-facebook-auth-helper	SEP. 2017 – Present SEP. 2017 – Present SEP. 2016 – Present JUL. 2016 – Present MAY. 2016 – Present MAY. 2015 – Present
TEACHING EXPERIENCE	Teaching Assistant CS584 Human-Computer Interaction	Fall 2019

CS550 Software Engineering	Spring 2019
CS584 Human-Computer Interaction	Fall 2018
CS420 Compiler Design	Fall 2016
CS220 Programming Principles	Spring 2016

Tutor

CS311 Computer Architecture	Fall 2016
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INVITED TALKS

Coping with Mode Errors in Dual-language Keyboard
Hancom TechDay, Hancom

OCT. 2019

ACADEMIC
SERVICES

Reviewer

CHI' 19, MobileHCI' 19