

Sangyoon Lee

CONTACT

Ph.D. student
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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
Advisor: Geehyuk Lee, Ph.D.

Daejeon, Korea
MAR. 2018 – Present

Korea Advanced Institute of Science and Technology (KAIST)

M.S. in Computer Science
Thesis: “Diagnosing and Coping with Mode Errors in using a Dual-language Keyboard”
Advisor: 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

1. **Diagnosing and Coping with Mode Errors in Korean-English Dual-language Keyboard**
Sangyoon Lee, Jaeyeon Lee, Geehyuk Lee
CHI 2019
2. **Auto-switching List Search Interface for Touchscreen Smartwatches**
Jingun Jung, Sangyoon Lee, Sunggeun Ahn, and Geehyuk Lee
MobileHCI 2018

Domestic Conference Papers

1. **First Principles Study of spin polarization in Fe-doped monolayer C₂N-h₂D**
Sangyoon Lee and Geumbi Jung
5th 2016 EDISON Challenge
2. **An experimental comparison of user postures between tablebased reading activities and book-based reading activities**
Sangyoon Lee
KCC 2015

Extended Abstracts: Demonstrations

1. **MirrorPad: A Touchpad for Direct Pen Interaction on a Laptop**
Sangyoon Lee and Geehyuk Lee
ISS 2019 (to appear)

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 <i>Skills:</i> Django, Go, Meteor, MongoDB, AWS, React.js, Youtube API	
	Langpoo	JAN. 2015 – MAR. 2015
	Software Engineer - Backend engineer, API server construction <i>Skills:</i> 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 <i>Skills:</i> Django, Mysql, Scikit-learn, Machine Learning techniques, Tensorflow <i>Publications:</i>	
	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
ACTIVITIES	Research Intern - Machine State Estimation Using Electric Current Measurement Sensor <i>Skills:</i> Android	
	Social Computing Lab, KAIST	MAY. 2013 – JUN. 2015
	Research Intern & Software Engineer - User Depression Mitigation Project <i>Skills:</i> Facebook login API, Flask, Django, Html, Javascript, CSS <i>Publications:</i>	
	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	JUN. 2013 – AUG. 2013
AWARDS	Summer Intern - Big data(scientist's bio) analysis and processing <i>Skills:</i> Mysql, Java, Hadoop, MapReduce	
	CS Undergraduate Student Council, KAIST	JAN. 2014 – JAN. 2015
	President	
	CS Undergraduate Student Council, KAIST	JAN. 2013 – JAN. 2014
	Vice Representative of '12	
	UIST '17 Student Innovation Contest	Fall 2017
	People's Choice award	

OPEN SOURCE CONTRIBUTION	Konlpy, Konlpy Python package for Korean natural language processing <i>Url:</i> https://github.com/konlpy/konlpy	MAY. 2016 – Present
	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	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	SEP. 2017 – Present
	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	SEP. 2017 – Present
	BookmarksReminder This chrome extension gives you a reminder alarm for bookmarks <i>Url:</i> https://chrome.google.com/webstore/detail/bookmarksreminder/jeegdkkmnjonkoefmnhokohkbheoeadi	SEP. 2016 – Present
	korean-corpus-generator Python package for Korean corpus generating <i>Url:</i> https://github.com/pinetree408/korean-corpus-generator	JUL. 2016 – Present
	VFT Visualization Tool for Filtering Test Logs based on Eclipse plug-in <i>Url:</i> https://github.com/pinetree408/VFT	MAY. 2016 – Present
	django-facebook-auth Django facebook auth helper <i>Url:</i> https://pypi.python.org/pypi/django-facebook-auth-helper	MAY. 2015 – Present
TEACHING EXPERIENCE	Teaching Assistant CS550 Software Engineering CS584 Human-Computer Interaction CS420 Compiler Design CS220 Programming Principles	Spring 2019 Fall 2018 Fall 2016 Spring 2016
	Tutor CS311 Computer Architecture	Fall 2016
INVITED TALKS	Coping with Mode Errors in Dual-language Keyboard Hancom TechDay, Hancom	OCT. 2019
ACADEMIC SERVICES	Reviewer CHI' 19, MobileHCI' 19	