

# Sangyoon Lee

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RESEARCH INTERESTS	Human-Computer Interaction	
EDUCATION	<b>Korea Advanced Institute of Science and Technology (KAIST)</b> Ph.D. student in Computer Science <i>Advisor:</i> Geehyuk Lee, Ph.D.	Daejeon, Korea MAR. 2018 – Present
	<b>Korea Advanced Institute of Science and Technology (KAIST)</b> 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
	<b>Korea Advanced Institute of Science and Technology (KAIST)</b> B.S. in Computer Science	Daejeon, Korea 2016
PUBLICATIONS	<b>International Conference Papers</b> <ol style="list-style-type: none"><li>1. <b>ThroughHand: 2D Tactile Interaction to Simultaneously Recognize and Touch Multiple Objects</b> Jingun Jung, Sunmin Son, <b>Sangyoon Lee</b>, Yeonsu Kim, and Geehyuk Lee CHI 2021</li><li>2. <b>FS-Pad: Video Game Interactions with a Force Feedback Gamepad</b> Youngbo Aram Shim, Keunwoo Park, <b>Sangyoon Lee</b>, Jeongmin Son, Taeyun Woo, and Geehyuk Lee UIST 2020</li><li>3. <b>MirrorPad: Mirror on Touchpad for Direct Pen Interaction in the Laptop Environment</b> <b>Sangyoon Lee</b>, Youn-kyung Lim, Geehyuk Lee CHI 2020</li><li>4. <b>Voice+Tactile: Augmenting In-vehicle Voice User Interface with Tactile Touchpad Interaction</b> Jingun Jung, <b>Sangyoon Lee</b>, Jiwoo Hong, Eunhye Youn, and Geehyuk Lee CHI 2020</li><li>5. <b>Diagnosing and Coping with Mode Errors in Korean-English Dual-language Keyboard</b> <b>Sangyoon Lee</b>, Jaeyeon Lee, Geehyuk Lee CHI 2019</li><li>6. <b>Auto-switching List Search Interface for Touchscreen Smartwatches</b> Jingun Jung, <b>Sangyoon Lee</b>, Sunggeun Ahn, and Geehyuk Lee MobileHCI 2018</li></ol> <b>Domestic Conference Papers</b> <ol style="list-style-type: none"><li>1. <b>Diagnosing and Coping with Annotation Distribution Problem in PDF</b> <b>Sangyoon Lee</b> and Geehyuk Lee HCI Korea 2020</li><li>2. <b>First Principles Study of spin polarization in Fe-doped monolayer C2N-h2D</b> <b>Sangyoon Lee</b> and Geumbi Jung EDISON Challenge 2016</li></ol>	

3. **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
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

<b>Gold Spoon</b>	MAY. 2015 – FEB. 2016
Software Engineer, Co-Founder	
- Backend engineer	
<i>Skills:</i> Django, Go, Meteor, MongoDB, AWS, React.js, Youtube API	
<b>Langpoo</b>	JAN. 2015 – MAR. 2015
Software Engineer	
- Backend engineer	
<i>Skills:</i> Django, AWS, RabbitMQ, Android GCM	
<b>Graduate School of Science and Technology Policy, KAIST</b>	JUN. 2014 – JAN. 2015
Work-study Program	
- Homepage renewal	
<b>Computational Nanotech Lab, KAIST</b>	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. <b>Application of the Machine Learning Algorithm to Electronic Structure Calculations: A Test Case of B/N-doped Graphene</b>	
Kim, et al	
KPS, 2016.	
- Contribution in developing the web application & machine learning techniques.	
<b>Interactive Computing Lab, KAIST</b>	JAN. 2014 – MAR. 2014
Research Intern	
- Machine State Estimation Using Electric Current Measurement Sensor	
<i>Skills:</i> Android	
<b>Social Computing Lab, KAIST</b>	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>	

	<p>1. <b>Manifestation of depression and loneliness on social networks: a case study of young adults on Facebook</b>  Park, Sungkyu, et al  CSCW, 2015.  - Contribution in developing the web application.</p>	
	<p><b>Intelligence in Science &amp; Technology, KISTI</b>  Summer Intern  - Big data(scientist's bio) analysis and processing  <i>Skills:</i> Mysql, Java, Hadoop, MapReduce</p>	JUN. 2013 – AUG. 2013
ACTIVITIES	<p><b>CS Undergraduate Student Council, KAIST</b>  President</p> <p><b>CS Undergraduate Student Council, KAIST</b>  Vice Representative of '12</p>	<p>JAN. 2014 – JAN. 2015</p> <p>JAN. 2013 – JAN. 2014</p>
AWARDS	<p><b>CHI '21 Paper</b>  Honorable Mention Award</p> <p><b>Google '20 Student Travel Grant</b>  Student Travel Grant</p> <p><b>Naver '19 PhD Fellowship</b>  PhD Fellowship Award</p> <p><b>ISS '19 Demonstration</b>  Honorable Mention Demo Award</p> <p><b>UIST '17 Student Innovation Contest</b>  People's Choice award</p>	<p>Spring 2021</p> <p>Spring 2020</p> <p>Fall 2019</p> <p>Fall 2019</p> <p>Fall 2017</p>
OPEN SOURCE CONTRIBUTION	<p><b>Konlpy, Konlpy</b>  Python package for Korean natural language processing  <i>Url:</i> <a href="https://github.com/konlpy/konlpy">https://github.com/konlpy/konlpy</a></p> <p><b>PinPoint, Naver</b>  Pinpoint is an open source APM (Application Performance Management) tool for large-scale distributed systems written in Java  <i>Url:</i> <a href="https://github.com/naver/pinpoint">https://github.com/naver/pinpoint</a></p>	<p>MAY. 2016 – Present</p> <p>DEC. 2014 – Present</p>
TEACHING EXPERIENCE	<p><b>Teaching Assistant</b>  CS330 Operating Systems and Lab  CS584 Human-Computer Interaction  CS550 Software Engineering  CS584 Human-Computer Interaction  CS420 Compiler Design  CS220 Programming Principles</p> <p><b>Tutor</b>  CS311 Computer Architecture</p>	<p>Fall 2020</p> <p>Fall 2019</p> <p>Spring 2019</p> <p>Fall 2018</p> <p>Fall 2016</p> <p>Spring 2016</p> <p>Fall 2016</p>

INVITED TALKS

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

OCT. 2019

ACADEMIC  
SERVICES

**Reviewer**  
AH' 20, CHI' 19, MobileHCI' 19