# Sangyoon Lee

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| CONTACT | Ph.D. student | |
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RESEARCH INTERESTS

Human-Computer Interaction

EDUCATION

**Korea Advanced Institute of Science and Technology (KAIST)** — Daejeon, Korea
Ph.D. student in Computer Science — MAR. 2018 – Present
*Advisor*: Geehyuk Lee, Ph.D.

**Korea Advanced Institute of Science and Technology (KAIST)** — Daejeon, Korea
M.S. in Computer Science — 2018
*Thesis*: "Diagnosing and Coping with Mode Errors in using a Dual-language Keyboard"
*Advisor*: Geehyuk Lee, Ph.D.

**Korea Advanced Institute of Science and Technology (KAIST)** — Daejeon, Korea
B.S. in Computer Science — 2016

PUBLICATIONS

**International Conference**

1. **Diagnosing and Coping with Mode Errors in Korean-English Dual-language Keyboard**
   **Sangyoon Lee**, Jaeyeon Lee, Geehyuk Lee
   CHI 2019

1. **Auto-switching List Search Interface for Touchscreen Smartwatches**
   Jingun Jung, **Sangyoon Lee**, Sunggeun Ahn, and Geehyuk Lee
   MobileHCI 2018

**Domestic Conference**

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 tabletbased reading activities and book-based reading activities**
   **Sangyoon Lee**
   KCC 2015

WORK EXPERIENCE

**Gold Spoon** — MAY. 2015 – FEB. 2016
Software Engineer
- 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**                          JUN. 2013 – AUG. 2013
Summer Intern
- Big data(scientist's bio) analysis and processing
*Skills*: Mysql, Java, Hadoop, MapReduce

ACTIVITIES      **CS Undergraduate Student Council, KAIST**                JAN. 2014 – JAN. 2015
President

**CS Undergraduate Student Council, KAIST**                              JAN. 2013 – JAN. 2014
Vice Representative of '12

AWARDS      **UIST '17 Student Innovation Contest**                         Fall 2017
People's Choice award

OPEN SOURCE    **Konlpy, Konlpy**                                       MAY. 2016 – Present
CONTRIBUTION
Python package for Korean natural language processing
*Url*: https://github.com/konlpy/konlpy

**PinPoint, Naver**                                                       DEC. 2014 – Present
Pinpoint is an open source APM (Application Performance Management) tool for large-scale distributed systems written in Java
*Url*: https://github.com/naver/pinpoint

OPEN SOURCE    **Web Speech AI for youtube player**                    SEP. 2017 – Present
PROJECT
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 Mozila Web speech recognition api
*Url*: https://github.com/pinetree408/speech-ai

**Wrist Gesture Recognizer On Smartwatch**                               SEP. 2017 – Present
This project recognizes four wrist gesture on smartwatch with machine learning technique(SVM)

*Url*: https://github.com/pinetree408/tilt_selection_server

**BookmarksReminder**                                                    SEP. 2016 – Present
This chrome extension gives you a reminder alarm for bookmarks
*Url*: https://chrome.google.com/webstore/detail/bookmarksreminder/jeegdkkmnjonkoefmnhokohkbheoeadi

**korean-corpus-generator**                                              JUL. 2016 – Present
Python package for Korean corpus generating
*Url*: https://github.com/pinetree408/korean-corpus-generator

**VFT**                                                                  MAY. 2016 – Present
Visualization Tool for Filtering Test Logs based on Eclipse plug-in
*Url*: https://github.com/pinetree408/VFT

**django-facebook-auth**                                                 MAY. 2015 – Present
Django facebbook auth helper
*Url*: https://pypi.python.org/pypi/django-facebook-auth-helper

TEACHING          **Teaching Assistant**
EXPERIENCE        CS584 Human-Computer Interaction                              Fall 2018
                  CS420 Compiler Design                                        Fall 2016
                  CS220 Programming Principles                               Spring 2016

                  **Tutor**
                  CS311 Computer Architecture                                  Fall 2016