

# Hyeungshik Jung

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## EDUCATION

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

- M.S. in Computer Science Mar 2017 – Feb 2019
  - Advisor: Juho Kim
  - Focus: Human Computer Interaction

### Seoul National University, Seoul, South Korea

- B.S. in Computer Science and Engineering Mar 2010 – Feb 2017
- B.A. in Information Science and Culture Mar 2010 – Feb 2017
  - Double major at College of Liberal Studies
  - 2 years of military service at Republic of Korea Air Force

## PUBLICATIONS

### CONFERENCE PAPERS

- [c.1] M. Chang, L. Guillain, H. Jung, V. Hare, J. Kim, M. Agrawala “RecipeScape: An Interactive Tool for Analyzing Cooking Instructions at Scale ” in *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*, Montreal, Canada, Apr 2018.

### POSTERS & WORKSHOP PAPERS

- [p.2] H. Jung, H.V. Shin, J. Kim “DynamicSlide: Exploring the Design Space of Reference-based Interaction Techniques for Slide-based Lecture Videos ” in *Proceedings of the 2018 Workshop on Multimedia for Accessible Human Computer Interface*, Seoul, South Korea, Oct 2018.
- [p.1] H. Jung, H.V. Shin, J. Kim “DynamicSlide: Reference-based Interaction Techniques for Slide-based Lecture Videos ” in *The 31st Annual ACM Symposium on User Interface Software and Technology Adjunct Proceedings*, Berlin, Germany, Oct 2018.

## PROJECTS

### DynamicLecture

Apr 2018 – Current

- Research project that enables direct update of lecture videos without encoding and uploading again
  - DynamicLecture is an object-oriented video editing system for slide-based lecture videos that supports updating text, image, and narration of existing videos.
  - Master thesis project

### DynamicSlide

Aug 2017 – Apr 2018

- Research project [p.1] [p.2] that finds and leverages link between slides and narrations in lecture videos
  - DynamicSlide is a video processing and playing system that leverages the relationship between slides in video and the narration in order to automatically highlight the lecture video and help navigation.

### RecipeScape <https://recipescape.kixlab.org>

Apr 2017 – Sep 2017

- Research project [c.1] for analyzing hundreds of recipes online
  - As a third author, I implemented the tagger that corrects POS tags of recipes, the web dashboard with an intern, and the backend API for both tagger and dashboard. I recorded the video abstract as well.

### Homemining

Jan 2017 – Jul 2017

- Exploring methods for data-driven UX research (with LG Electronics)
  - Crawled 52M pictures from Instagram by expanding relevant tags about housing in order to gain insights on housing trends. Trained LDA model and word2vec model using crawled data. Ran object detection for 5M images.
  - Stacks used: Elasticsearch, AWS SQS, AWS S3, Gensim, Tensorflow (Object Detection API)

### SNUTT <https://snutt.kr>

2016 – 2017

- Developed a web application of the course scheduling service using React / Redux.
  - 5K monthly active users during course registration period
  - GitHub Repo: <https://github.com/wafflestudio/snutt-webclient>

## WORK EXPERIENCE

### Sualab, Seoul, South Korea

- Research Engineer Intern Jun 2015 – Aug 2015
  - Participated in developing algorithm for detecting defective coin packaging using C++ and OpenCV (to be delivered at KOMSCO, Korea Minting, Security Printing & ID Card Operating Corp.)

## TEACHING EXPERIENCE

### TA, Introduction to HCI (Instructor: Juho Kim)

Spring 2017, 2018

- Led one-hour design studio of 20 undergraduate students every week
- Designed 3 programming assignments for HTML / JavaScript / Firebase
- Gave two tutorials on using JavaScript with Firebase and version control with Git

[CV compiled on 2018-12-26]