

HEERYUNG CHOI

CONTACT INFORMATION	Room 4446, North Quadrangle, University of Michigan, 105 S State St, Ann Arbor, MI, US 48019	heeryung@umich.edu heeryung.github.io
RESEARCH INTERESTS	Educational Data Mining HCI	Learning Science CSCW
EDUCATION	University of Michigan , Michigan, United States 2016 - Present PhD in Information • Advisor: Christopher Brooks Seoul National University , Seoul, South Korea 2014 - 2016 Master of Science in Cognitive Science (expected graduation date: Aug. 2016) • Advisor: Joonhwan Lee Seoul National University , Seoul, South Korea 2009 - 2014 Bachelor of Arts in English Education • Overall GPA: 3.99 / 4.3 (Summa Cum Laude); Upper Division GPA: 4.06 / 4.3	
RESEARCH EXPERIENCES	Research Assistant for Neolab Pen Computing Project 2014 - Present • Evaluated user interfaces of collaborative software for the classroom, Neolab N School Note. • Conducted semi-structured interviews to grasp how the pen computing technology can enhance interactive learning processes. Research Assistant for Kinetic Typography Project 2014 - Present • Established a text-processing algorithm for an automated kinetic typography engine (KIWEE). • Performed semi-structured interviews and experiments in order to evaluate the validity of the KIWEE system.	
TEACHING EXPERIENCES	Teaching Assistant for Information Visualization (211.724A-001) Fall 2015 • Offered general support and one-to-one assistance for graduate students. • Prepared data for student visualization assignment. • Assisted the professor in the management of students. Teaching Assistant for HCI Theory and Practice (2114.408A-001) Spring 2015 • Showed undergraduate students how to use eye-tracker for their final projects. • Helped the professor in the management of students. Pre-service Teacher at Seoul National University Middle School 2013 • Taught English to 39 ninth-grade students. • Mentored 7 ninth-grade students on their school lives and future plans. • Planned daily lessons, including objectives, procedures, and materials. • Facilitated collaborative work, such as group task and group debate.	

Teaching Volunteer

- Taught disadvantaged eleventh-grade students English. **2013**
- Taught disadvantaged elementary students English. **2009**

PUBLICATIONS

Conference Proceedings

Je Seok Lee, **Heeryung Choi**, Joonhwan Lee. 2015. TalkingCane: Designing Interactive White Cane for Visually Impaired People's Bus Usage, in *MobileHCI 2015: ACM Conference on Human-Computer Interaction with Mobile Devices and Services*.

Joonhwan Lee, Donghwan Kim, Inho Won, Jieun Wee, Yaena Jang, Sooyeon Jang, **Heeryung Choi**. 2015. Sentence-level Kinetic Typography Generating System, in *HCI Korea 2015, in cooperation with ACM and SIGCHI*.

Translated Abstract: Kinetic typography (KT) enables users to better convey emotions in text-based communication. In this research, we propose a sentence-level KT system that generates and assigns effects to the text input. We believe that our system improves the utilization of KT for broader applications. The system consists of 5 steps, and we focused on creating an algorithm for automated processing and layout of text, as in a sentence.

Joonhwan Lee, Donghwan Kim, Inho Won, Jieun Wee, Yaena Jang, Sooyeon Jang, **Heeryung Choi**. 2014. Evaluating System-Generated Kinetic Typography Effects for Sentence-Level Text Layout, in *The Korean Institute of Information Scientists and Engineers 2014*.

Translated Abstract: Kinetic typography effectively allows texts, which lack non-verbal evidence, to show emotion through movement when used in communication. Previous studies have focused on word-for-word modules, whereas this study focuses on the capability and usefulness of sentences. Specifically, an automated algorithm was created for this study, wherein sentences were given animated effects using an appropriate layout. Tests were performed using samples created with the prototype. The results confirmed that sentence-based kinetic typography is appropriate in conveying emotion.

Joonhwan Lee, Donghwan Kim, Inho Won, Jieun Wee, Yaena Jang, Sooyeon Jang, **Heeryung Choi**. 2014. The Architecture of Automatic Kinetic Typography Effects Generating System, in *Korea Multimedia Society 2014*.

Translated Abstract: Kinetic typography can be used to reveal emotion successfully in a mediated communication environment. Previous kinetic typography research limits animated effects to word-for-word modules. To support various text-based communication, there is a need for a sentence-based system. Therefore, this study suggests a new algorithm and system wherein an animated effect for kinetic typography is created for sentences.

PATENTS

Automatic Kinetic Typography Effects Generating System for Expressing Emotions. Joonhwan Lee, Donghwan Kim, Jieun Wee, Yaena Jang, Sooyeon Jang, **Heeryung Choi**. (Pending)

HONORS AND AWARDS

Samsung Scholarship **2016 (Accepted)**

- Tuition and living costs covered for PhD studies (\$50 K per year, for 5 years)

National Research Scholarship **2015**

- Tuition covered (for one year)

Summa Cum Laude **2014**

- Graduated with honors (summa cum laude)
- Achieved third-highest GPA of all students in the program

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