HEERYUNG CHOI

CONTACT INFORMATION	Room 4446, North Quadrangle, University of Michigan, 105 S State St, Ann Arbor, MI, US 48019	heeryung@umich.edu http://heeryung.github.io

RESEARCH INTERESTS	Learning analytics MOOCs	Self-regulated learning

EDUCATION

University of Michigan, Michigan, United States   **2016 - Present**

Ph.D. in Information
- Advisor: Christopher Brooks, Stephanie Teasley

Seoul National University, Seoul, South Korea   **2014 - 2016**

M.S. in Cognitive Science
- Advisor: Joonhwan Lee

Seoul National University, Seoul, South Korea   **2009 - 2014**

B.A. in English Education (Summa Cum Laude)

TEACHING EXPERIENCES

TA for Natural Language Processing: Algorithms and People (SI 630)   **Winter 2019**

TA for Data Mining (SI 671)   **Fall 2018**

TA for Information Visualization (211.724A-001)   **Fall 2015**

TA for HCI Theory and Practice (2114.408A-001)   **Spring 2015**

PUBLICATIONS

Conference Proceedings

Heeryung Choi, Nia Dowell, Christopher Brooks, Stephanie Teasley. 2019. Social Comparison in MOOCs: Perceived SES, Opinion, and Message Formality, *in 9th International Conference on Learning Analytics and Knowledge 2019 (LAK19).*

Wenfei Yan, Nia Dowell, Caitlin Holman, Steve Welsh, **Heeryung Choi**, Christopher Brooks. 2019. Exploring Learner Engagement Patterns in Teach-Outs: Using Topic, Sentiment and On-topicness to Reflect on Pedagogy, *in 9th International Conference on Learning Analytics and Knowledge 2019 (LAK19).*

Yiwen Lin, Nia Dowell, Andrew Godfrey, **Heeryung Choi**, Christopher Brooks. 2019. Modeling Gender in Intra and Interpersonal Dynamics during Online Learning Collaborative Interactions, *in 9th International Conference on Learning Analytics and Knowledge 2019 (LAK19).*

Heeryung Choi, Nia Dowell, Christopher Brooks. 2018. Social comparison theory as applied to MOOC student writing: constructs for opinion and ability, *in ICLS '18: the Thirteenth International Conference of the Learning Sciences.*

Heeryung Choi, Zijian Wang, Christopher Brooks, Kevyn Collins-Thompson, Beth Glover Reed, Dale Fitch. 2017. Social work in the classroom? A tool to evaluate topical relevance in student writing, *in EDM '17: the Tenth International Conference on Educational Data Mining.*

Heeryung Choi, Christopher Brooks, Kevyn Collins-Thompson. 2017. What does student writing tell us about their thinking on social justice?, *in LAK '17: the Seventh International Learning Analytics Knowledge Conference.*

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 - Present**
- 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

- Achieved third-highest GPA of all students in the program

Seoul National University Scholarship   **2011 - 2013 (3 semesters)**

- Merit-based scholarship

REFERENCES   Christopher Brooks, Ph.D.
Research Assistant Professor,
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University of Michigan
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Research Professor,
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