Curriculum Vitae / Resume

HEERYUNG CHOI

Contact Information

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Research Interests

Human-Computer Interaction
Social computing
Learning science
CSCW (Computer-Supported Cooperative Work)

Education

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

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 Neolab Pen Computing software for the classroom, N School Note.

Research Assistant for Kinetic Typography Project **2014 - Present**
- Established a text-processing algorithm for an automated kinetic typography engine (KIWEE).
- Performed semi-structured interview 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 final projects.
- Helped the professor in the management of students.

Pre-service Teacher at Seoul National University Middle School **2013**
- Taught 39 ninth-grade students English.
- Mentored 7 ninth-grade students on their school lives and future plan.
- 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 researches focused on word-for-word modules, whereas this study focuses on the capability and usefulness of sentences. Specifically, for the study an automated algorithm was created where sentences are given animated effects with an appropriate layout. Tests were taken using samples created with the prototype. 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 where 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

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

- Merit-based scholarship

Activities & Services

Machine Learning Study Led by Professor Joonhwan Lee **2015**

- Seminar on machine learning algorithm using R

Reviewer

- CHI 2015 conference

Student Volunteer

- CHI 2015 conference, CSCW 2015 conference, CHI 2015 PC meeting

Coursera Global Translator (Volunteer) **2014 - Present**

- Coursera Global Translator Community

Project Member, Project Manager **2011 - 2013**

- Seoul National University Enactus (Student-led non-governmental organization)

Volunteering Team Leader **2009 - 2010**

- Happy Move Global Volunteer Youth Program

Skills and Expertise

Teacher's Certificate

- Secondary School Teaching Certificate (Grade 2) of English language

User-Centered Design Research

- Eye-tracking, survey, individual interviews, prototyping, contextual inquiry, personas

Programming Languages

- Python, Ruby on Rails, HTML, R

Natural Language Processing

- Python (including NLTK), R

References

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