

JUHO KIM

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RESEARCH INTERESTS

Human-Computer Interaction (HCI), Creativity Support Tools, Reader-Writer Interaction, Crowdsourcing

EDUCATION

Massachusetts Institute of Technology Cambridge, MA
Ph.D. student in Electrical Engineering and Computer Science (CSAIL) Sep.2010–Present
Advisor: Rob Miller

Stanford University Stanford, CA
M.S. in Computer Science (Specialization: HCI) Sep.2008–Jun.2010
Advisor: Scott Klemmer, GPA: 4.17/4.30

Seoul National University Seoul, Korea
B.S. in Computer Science and Engineering Jun.2008
GPA: 3.97/4.30, Graduated with honors (Summa Cum Laude), ranked 2 / 79

EMPLOYMENT

UID Group, MIT CSAIL Cambridge, MA
Research Assistant Sep.2010–Present

Creative Technologies Lab, Adobe Systems Inc. San Francisco, CA
Research Intern May.2011–Sep.2011

USER Group, IBM Almaden Research Center San Jose, CA
Research Intern May.2010–Aug.2010

HCI Group, Stanford University Stanford, CA
Research Assistant Apr.2009–Jun.2010

Duruter Co., Ltd. Seoul, Korea
Part-time Web Developer Feb.2008–Aug.2008

- Designed a device management / history tracking system with Ruby on Rails, MySQL, and Apache server

SystemBase Co., Ltd. Seoul, Korea
Project Manager & Embedded Software Engineer Dec.2004–Sep.2007

- Proposed and managed a line of products: programmable and customizable embedded modules
- Designed API & Eclipse-based development environment for programmers using embedded modules, in collaboration with ETRI (Electronics and Telecommunication Research Institute) Korea
- Developed & ported network modules & open-source applications on embedded modules

- Tested API functions and wrote technical documents for embedded Linux home appliance platform

PUBLICATIONS

- [6] *Juho Kim*, Benjamin Malley, Joel Brandt, Mira Dontcheva, Diana Joseph, Krzysztof Z. Gajos, and Robert C. Miller. **Photoshop with Friends: A Synchronous Learning Community for Graphic Design**. CSCW 2012 Interactive Demo, Seattle, USA 2012.
- [5] Michael Nowak, *Juho Kim*, Nam Wook Kim, and Clifford Nass. **Social Visualization and Negotiation: Effects of Feedback Configuration and Status**. *Proc. of CSCW 2012*, Seattle, USA 2012.
- [4] Eser Kandogan, *Juho Kim*, Thomas P. Moran, and Pablo Pedemonte. **How a Freeform Spatial Interface Supports Simple Problem Solving Tasks**. *Proc. of CHI 2011*, Vancouver, Canada, 2011.
- [3] *Juho Kim*, Ranjitha Kumar, and Scott R Klemmer. **Crowdsourcing Interface for Collecting Correspondences of Web Pages**. *UIST 2009 Poster*, Victoria, BC, Canada, 2009.
- [2] Ranjitha Kumar, *Juho Kim*, and Scott R Klemmer. **Automatic Retargeting of Web Page Content**. *CHI 2009 Extended Abstracts*, Boston, USA, 2009.
- [1] *Juho Kim*, Won-Wook Hong, and Robert Ian McKay. **Evolutionary Topic Maps**. *Proc. of KHCI 2009*.

RESEARCH

Synchronous Learning Platform for Photoshop

May.2011–Present

- Advised by Joel Brandt, Mira Dontcheva (Adobe), Professors Rob Miller and Krzysztof Gajos
- Building a user community of graphic design software, for creative inspiration and just-in-time help exchange

Reader-Centered Writing

Sep.2010–Present

- Advised by Professors Rob Miller and Krzysztof Gajos
- Building a feedback platform for better writer-reader interaction

Web Design Alternatives by Borrowing from Examples

Sep.2008–Jun.2010

- Advised by Professor Scott R. Klemmer, Stanford University
- Built a web design tool that enables using any web page as the design template

Detecting Social Signals & Visualizing Feedback

Jan.2009–Jun.2010

- Advised by Professor Clifford Nass, Stanford University
- Looked at the effects of computer-generated feedback in real-time social interactions

Interactive Evolution of Topic Maps

Mar.2008–Jan.2009

- Advised by Professor Robert I. McKay, Seoul National University
- Applied interactive evolutionary computation to suggest new knowledge not easily producible by humans

Interaction Design Methodologies Applicable to

Sep.2007–Mar.2008

Social Network Service Associated with Metaverse – Focused on Cyworld SNS

- Advised by Professor Joong-seek Lee, Seoul National University
- Identified effective interaction design concepts through comparative evaluation and qualitative analysis

SCHOLARSHIPS & HONORS

The Samsung Scholarship

Nov.2009, Nov.2007

Full tuition and living costs covered for Ph.D. studies (\$50,000 per year, for 5 years)

Full tuition and living costs covered for Master's studies (\$50,000 per year, for 2 years)

Independent Study Scholarship

Oct.2007

\$1,000 Research grant awarded by Center for Teaching & Learning, Seoul National University

Seoul National University Scholarship

Aug.2001–Aug.2004

Merit-based scholarships for 6 semesters

TALKS

“Crowdsourcing: Engineering Collective Intelligence” Oct. 8th 2011, Boston Korean Students Meeting (TEDy)

“Crowdsourcing: Engineering Collective Intelligence” Jun. 29th 2011, Samsung Scholarship Open Talk

“Creativity Support Tools” Jan. 4th 2011, HCI Lab, Seoul National University

“Creativity Support Tools” Jan. 5th 2011, Information Convergence at Seoul National University GSCST

SERVICE

Reviewer – CHI (2008-2012), CSCW (2012, 2011, 2008), IWIC2009

Student Volunteer – CHI (2010-2012), APCHI2008

Organizer – MIT HCI Seminar Series, BostonCHI Labs

Student Member – ACM, ACM SIGCHI, IEEE

PROJECTS

Task Clustering on Mechanical Turk – *Machine Learning class project, MIT* Sep.2010–Dec.2010

- Applied LDA, EM, and X-Means clustering techniques to Mechanical Turk tasks

Location-based Databases – *Databases class project, MIT*

Sep.2010–Dec.2010

- Compared performance and usability of PostGIS databases and traditional databases

Clapster – *HCI Design Studio class project, Stanford*

Jan.2009–Mar.2009

- Designed an educational, collaborative rhythm game for kids using gloves as an input device

Dynamic Soccer – *Data Visualization class project, Stanford*

Jan.2009–Feb.2009

- Designed soccer statistics visualization application with dynamic queries and time animation

FoodEx – *Intro to HCI Design class project, Stanford*

Sep.2008–Dec.2008

- Designed an instant event messenger in Flash Lite, running on Nokia N95

Highly Interactive Treeview – *Interactive Web App class project, Stanford*

Sep.2008–Dec.2008

- Designed web-based tree visualization & editing application in Javascript+Canvas

Sound Pill – *Creative Research class project, SNU*

Mar.2008–Jun.2008

- Created and packaged audio clips in capsules that help people recover from anger, distress, depression, etc.
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- SNMP Support for Embedded Modules** – *freelance work for SystemBase* Jan.2008–May 2008

 - Ported SNMP agent with customized MIB & applications on Eddy, embedded communication modules

- Mindmap-Search** – *Winter of Code 2007 hosted by Openmaru studio* Dec.2007–Mar.2008

 - Designed a mindmap-based knowledge DB building and indexing application for search engines

- Korean Movie Industry Analysis** – *Peer Group Seminar project, SNU* Dec.2007–Feb.2008

 - Social network analysis on the producer-supplier network in the Korean movie industry

- SoC Robot War** Jun.2007–Aug.2007

 - Designed robot simulator and vision / strategy applications, advanced to the 2nd round in a team of 5

- DiCom Viewer** – *INFINITT Co., Ltd. & Project 1 class project, SNU* Mar.2004–Jun.2004

 - Developed a general-purpose medical image viewer

- Fermata** – *Database class project, SNU* Sep.2003–Dec.2003

 - Developed an on-line music store under LAMP (Linux, Apache, MySQL, and PHP) environment

ACTIVITIES

- Student Volunteer at The Good Law** www.goodlaw.org Dec.2007-Jun.2008

 - 10 hours/month volunteer work in a non-profit organization, court & seminar monitoring
 - Awarded an outstanding student volunteer for seminar monitoring activities (Mar.2008)

- Korea Science Expedition Participant** Nov.2007

 - Visited selected universities in California and Silicon Valley labs focusing on scientific research
 - Selected among 20 students among 1000+ applicants, sponsored by GMarket www.gmarket.com

- Student Monitor for IBM developerWorks Korea** Aug.2007–Mar.2008

 - Monitored technical tutorials and articles on the IBM's technical resources web site

- Member of Korea HCI Research Group** www.hci.or.kr Jan.2007–Jan.2008

 - Participated in weekly HCI study and monthly seminars and workshops

- Career Advancement Planning Program Participant** Sep.2004–Nov.2004

 - Participated in the program designed to build independence and self-confidence in business career
 - Offered by College of Business Administration, SNU

- Dale Carnegie Course Participant** Mar.2003–Jun.2003

 - Participated in the program designed for effective communications and social relationships
 - Offered by Center for Campus Life and Culture, SNU

- President of Seoul National University Choir** Dec.2002–Jun.2003

 - Organized the 22nd annual concert of the choir, with 80 members and 1000+ audiences

- Student Committee member of 1st BESETOHA Choral Festival** Aug.2002–Oct.2002

- Organized the international choral festival featuring choirs from Peking University, Seoul National University, the University of Tokyo, and Vietnam National University, Hanoi

SKILLS & CERTIFICATIONS

Licenses: CompTIA Network+, Microsoft Office Specialist Master (Word, Excel, PowerPoint, and Outlook)

Programming Languages: C, C++, Java, Ruby, ActionScript, Processing, Visual Basic

Web Programming: Flex/Flash, AIR, Ajax, Javascript, Ruby on Rails, LAMP, DHTML, XML, XUL, CSS

UX Methods: Think-Aloud, Contextual Inquiry, Focus Group Interview, Affinity Diagram, Paper Prototype, Heuristic Evaluation, Cognitive Walkthrough

Embedded Systems: Embedded Linux and VxWorks, cross-compile environment setup and development

Statistics: SPSS, SAS

Social Network Analysis: Ucinet, Pajek, Netminer