

JUHO KIM

Assistant Professor, School of Computing at KAIST
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EDUCATION

Massachusetts Institute of Technology Ph.D. in Electrical Engineering and Computer Science Thesis: Learnersourcing: Improving Learning with Collective Learner Activity Advisors: Robert C. Miller & Krzysztof Z. Gajos	Cambridge, MA Aug.2015
Stanford University M.S. in Computer Science (Specialization: Human-Computer Interaction) Advisor: Scott R. Klemmer	Stanford, CA Jun.2010
Seoul National University B.S. in Computer Science and Engineering (Summa Cum Laude)	Seoul, Korea Jun.2008

RESEARCH INTERESTS

Human-computer interaction, Learning at scale, Crowdsourcing, Civic engagement, Data-driven interaction

EMPLOYMENT

School of Computing, KAIST <i>Assistant Professor of Computer Science</i> Director of KIXLAB (the KAIST Interaction Lab) Member of HCI @ KAIST and the KAIST ARRC (Augmented Reality Research Center)	Daejeon, Korea Jul.2016–Present
Computer Science Department & Brown Institute, Stanford University <i>Visiting Assistant Professor & Brown Fellow. Host: Maneesh Agrawala</i>	Stanford, CA Aug.2015–Jun.2016
User Interface Design Group, MIT CSAIL <i>Research Assistant. Mentor: Robert C. Miller</i>	Cambridge, MA Sep.2010–Aug.2015
Microsoft Research <i>Research Intern. Mentors: Meredith R. Morris & Andrés Monroy-Hernández</i>	Redmond, WA May 2014–Aug. 2014
Learning Sciences Team, edX <i>Research Intern. Mentor: Piotr Mitros</i>	Cambridge, MA May 2013–Aug.2013
Creative Technologies Lab, Adobe Systems Inc. <i>Research Intern. Mentor: Joel Brandt</i>	San Francisco, CA May 2011–Sep.2011
USER Group, IBM Almaden Research Center <i>Research Intern. Mentors: Eser Kandogan & Thomas P. Moran</i>	San Jose, CA May 2010–Aug.2010
HCI Group, Stanford University <i>Research Assistant. Mentor: Scott R. Klemmer</i>	Stanford, CA Apr.2009–Jun.2010
SystemBase Co., Ltd. <i>Project Manager & Embedded Software Engineer</i>	Seoul, Korea Dec.2004–Sep.2007
Samsung Electronics Co., Ltd. Software Center <i>Summer Intern</i>	Suwon, Korea Jul.2003–Aug.2003

AWARDS & HONORS

Honorable Mention Award CHI 2016; among the top 4% of all submissions [c.20]	May 2016
Honorable Mention Award Learning at Scale 2016; among the top 4 awarded papers [c.19]	Apr. 2016
mediaX “Memory, Estates and Legacies in the Digital World” Grant \$30K, with Maneesh Agrawala, Stanford University	Sep.2015
Brown Fellowship Brown Institute, Stanford University	Aug.2015
Honorable Mention Award CHI 2015; among the top 5% of all submissions [c.16]	Apr.2015
Honorable Mention Award CHI 2015; among the top 5% of all submissions [c.15]	Apr.2015
Honorable Mention Award CHI 2015; among the top 5% of all submissions [c.14]	Apr.2015
Honorable Mention Award CHI 2014; among the top 5% of all submissions [c.9]	Apr.2014
Honorable Mention Award CHI 2014; among the top 5% of all submissions [c.8]	Apr.2014
Notable paper award HCOMP 2013 [c.5]	Nov.2013
2nd Place, Student Research Competition CHI 2013; \$300 award + \$500 support [p.7]	May 2012
1st Place Technical Lecture Award The 8th Annual Young Generation Technical and Leadership Conference	Jan.2012
Best Talk Award Samsung Scholarship Open Talk at the 2011 Samsung Scholarship Academic Camp	Jun.2011
The Samsung Scholarship Tuition and living costs covered for Ph.D. studies (\$50K per year, for 5 years)	2010–2015
The Samsung Scholarship Tuition and living costs covered for Master’s studies (\$50K per year, for 2 years)	2008–2010
Independent Study Scholarship \$1K Research grant awarded by Center for Teaching & Learning, Seoul National University	Oct.2007
Seoul National University Scholarship Merit-based scholarships for 7 semesters	Aug.2001–Aug.2004

PUBLICATIONS

Conference Papers

[c.22] Designing Interactive Distance Cartograms to Support Urban Travelers.

Ray Hong, Rafal Kocielnic, Min-Joon Yoo, Sarah Battersby, **Juho Kim**, Cecilia Aragon.

PacificVis 2017: IEEE Pacific Visualization Symposium. (to appear)

- [c.21] "Don't Bother Me. I'm Socializing.": Breakpoint-Based Smartphone Notification System.
Chunjong Park, Junsung Lim, **Juho Kim**, Sung-Ju Lee, Dongman Lee.
CSCW 2017: ACM Conference on Computer-Supported Cooperative Work and Social Computing. (to appear)
- [c.20] Revising Learner Misconceptions Without Feedback: Prompting for Reflection on Anomalous Facts.
Joseph Williams, Tania Lombrozo, Anne Hsu, Bernd Huber, **Juho Kim**.
CHI 2016: ACM Conference on Human Factors in Computing Systems. (23% acceptance rate, 5 pages)
Honorable Mention Award (top 4%).
- [c.19] AXIS: Generating Explanations at Scale with Learnersourcing and Machine Learning.
Joseph Jay Williams, **Juho Kim**, Anna Rafferty, Samuel Maldonado, Krzysztof Z. Gajos, Walter S. Lasecki, Neil Heffernan.
L@S 2016: ACM Conference on Learning at Scale. (22% acceptance rate, 10 pages)
Honorable Mention Award (top 4 papers).
- [c.18] BudgetMap: Engaging Taxpayers in the Issue-Driven Classification of a Government Budget.
Nam Wook Kim, Jonghyuk Jung, Eun-Young Ko, Songyi Han, Chang Won Lee, **Juho Kim**, Jihee Kim.
CSCW 2016: ACM Conference on Computer-Supported Cooperative Work and Social Computing. (25% acceptance rate, 11 pages, with revise-and-resubmit cycle)
- [c.17] RIMES: Embedding Interactive Multimedia Exercises in Lecture Videos.
Juho Kim, Elena L. Glassman, Andrés Monroy-Hernández, & Meredith Ringel Morris.
CHI 2015: ACM Conference on Human Factors in Computing Systems. (23% acceptance rate, 10 pages)
- [c.16] Mudslide: A Spatially Anchored Census of Student Confusion for Online Lecture Videos.
Elena L. Glassman, **Juho Kim**, Andrés Monroy-Hernández, & Meredith Ringel Morris.
CHI 2015: ACM Conference on Human Factors in Computing Systems. (23% acceptance rate, 10 pages)
Honorable Mention Award (top 5%).
- [c.15] Factful: Engaging Taxpayers in the Public Discussion of a Government Budget.
Juho Kim, Eun-Young Ko, Jonghyuk Jung, Chang Won Lee, Nam Wook Kim, & Jihee Kim.
CHI 2015: ACM Conference on Human Factors in Computing Systems. (23% acceptance rate, 10 pages)
Honorable Mention Award (top 5%).
- [c.14] Apparition: Crowdsourced User Interfaces That Come To Life As You Sketch Them.
Walter Lasecki, **Juho Kim**, Nick Rafter, Onkur Sen, Jeffery Bigham, & Michael Bernstein.
CHI 2015: ACM Conference on Human Factors in Computing Systems. (23% acceptance rate, 10 pages)
Honorable Mention Award (top 5%).
- [c.13] Learnersourcing Subgoal Labels for How-to Videos.
Sarah Weir, **Juho Kim**, Krzysztof Z. Gajos, & Robert C. Miller.
CSCW 2015: ACM Conference on Computer-Supported Cooperative Work and Social Computing. (28.3% acceptance rate, 11 pages, with revise-and-resubmit cycle)
- [c.12] Data-Driven Interaction Techniques for Improving Navigation of Educational Videos.
Juho Kim, Philip J. Guo, Carrie J. Cai, Shang-Wen (Daniel) Li, Krzysztof Z. Gajos, & Robert C. Miller.
UIST 2014: ACM Symposium on User Interface Software and Technology. (22.2% acceptance rate, 10 pages)
- [c.11] Content-Aware Kinetic Scrolling for Supporting Web Page Navigation.
Juho Kim, Amy X. Zhang, Jihee Kim, Robert C. Miller, & Krzysztof, Z. Gajos.
UIST 2014: ACM Symposium on User Interface Software and Technology. (22.2% acceptance rate, 5 pages)
- [c.10] Attendee-sourcing: exploring the design space of community-informed conference scheduling.
Anant Bhardwaj, **Juho Kim**, Steven P. Dow, David Karger, Sam Madden, Robert C. Miller, & Haoqi Zhang.
HCOMP 2014: AAAI Conference on Human Computation & Crowdsourcing. (32% acceptance rate, 9 pages)

- [c.9] Crowdsourcing step-by-step information extraction to enhance existing how-to videos.
Juho Kim, Phu Nguyen, Sarah Weir, Philip J. Guo, Robert C. Miller, & Krzysztof Z. Gajos.
CHI 2014: ACM Conference on Human Factors in Computing Systems. (22.8% acceptance rate, 10 pages)
Honorable Mention Award (top 5%).
- [c.8] Frenzy: collaborative data organization for creating conference sessions.
 Lydia Chilton, **Juho Kim**, Paul André, Felicia Cordeiro, James Landay, Dan Weld, Steven P. Dow, Robert C. Miller, & Haoqi Zhang.
CHI 2014: ACM Conference on Human Factors in Computing Systems. (22.8% acceptance rate, 10 pages)
Honorable Mention Award (top 5%).
- [c.7] Understanding in-video dropouts and interaction peaks in online lecture videos.
Juho Kim, Philip J. Guo, Daniel T. Seaton, Piotr Mitros, Krzysztof Z. Gajos, & Robert C. Miller.
L@S 2014: ACM Conference on Learning at Scale. (35% acceptance rate, 10 pages)
- [c.6] How video production affects student engagement: an empirical study of MOOC videos.
 Philip J. Guo, **Juho Kim**, & Rob Rubin.
L@S 2014: ACM Conference on Learning at Scale. (35% acceptance rate, 10 pages)
- [c.5] Community clustering: leveraging an academic crowd to form coherent conference sessions.
 Paul André, Haoqi Zhang, **Juho Kim**, Lydia B. Chilton, Steven P. Dow, & Robert C. Miller.
HCOMP 2013: AAAI Conference on Human Computation & Crowdsourcing. (30% acceptance rate, 8 pages)
Notable Paper Award.
- [c.4] Cobi: a community-informed conference scheduling tool.
Juho Kim, Haoqi Zhang, Paul André, Lydia B. Chilton, Wendy Mackay, Michel Beaudouin-Lafon, Robert C. Miller, & Steven P. Dow.
UIST 2013: ACM Symposium on User Interface Software and Technology. (20% acceptance rate, 10 pages)
- [c.3] Social visualization and negotiation: effects of feedback configuration and status.
 Michael Nowak, **Juho Kim**, Nam Wook Kim, & Clifford Nass.
CSCW 2012: ACM Conference on Computer-Supported Cooperative Work.
 (40% acceptance rate, 10 pages, with revise-and-resubmit cycle)
- [c.2] How a freeform spatial interface supports simple problem solving tasks.
 Eser Kandogan, **Juho Kim**, Thomas P. Moran, & Pablo Pedemonte.
CHI 2011: ACM Conference on Human Factors in Computing Systems. (26% acceptance rate, 10 pages)
- [c.1] Evolutionary topic maps.
Juho Kim, Won-Wook Hong, & Robert Ian McKay.
KHCI 2009: HCI Korea Conference. (5 pages)

Book Chapters

- [b.1] Making Static Lessons Adaptive through Crowdsourcing & Machine Learning.
 Joseph Jay Williams, **Juho Kim**, Elena L. Glassman, Anna Rafferty, Walter S. Lasecki.
In Design Recommendations for Intelligent Tutoring Systems: Domain Modeling (Volume 4). 2016.

Posters, Demos, and Workshop Papers

- [p.31] Micro-NGO: Crowd-driven social activism via a chat-based online platform.
 Sung-Chul Lee, Jihee Kim, **Juho Kim**.
CSCW 2017 Workshop on Crowdsourcing Law and Policy. (to appear)

- [p.30] Crowdsourcing Law and Policy: A Design-Thinking Approach to Crowd-Civic Systems.
Brian McInnis, Alissa Centivany, **Juho Kim**, Marta Poblet, Karen Levy, Gilly Leshed.
CSCW 2017 Workshop Program. (to appear)
- [p.29] Dynamic Personal Archives: Tracking How Ideas Progress Over Time.
Jihyeon (Janel) Lee, **Juho Kim**, Maneesh Agrawala.
Stanford HCI + Design Open House.
- [p.28] Automatic Extraction of References Between Text and Charts.
Sherry Ruan, Dae Hyun Kim, **Juho Kim**, Maneesh Agrawala.
Stanford HCI + Design Open House.
- [p.27] Organic Crowdsourcing Systems.
Juho Kim.
AAAI 2016 Spring Symposium: Intelligent systems for supporting distributed human teamwork.
- [p.26] Mitigating Smartphone Interruptions During Social Interactions.
Chunjong Park, Junsung Lim, **Juho Kim**, Sung-Ju Lee, Dongman Lee.
ACM HotMobile 2016: The Seventeenth Workshop on Mobile Computing Systems and Applications.
- [p.25] Learnersourcing: Improving Video Learning with Large-Scale Interaction Data.
Juho Kim.
CSAIL Alliance Program 2015 Annual Meeting.
- [p.24] SPEDS: A Taxonomy for Crowdsourcing in Education.
Piotr Mitros & **Juho Kim.**
CSCL 2015 Workshop on Designing Futures for Learning in the Crowd.
- [p.23] BudgetWiser: Gamification Design Opportunities in the Government Budget Domain.
Nam Wook Kim, Jihee Kim, **Juho Kim**, Chang Won Lee, Eun-Young Ko, & Jonghyuk Jung.
CHI 2015 Workshop on Researching Gamification.
- [p.22] BudgetMap: Issue-Driven Navigation for a Government Budget.
Nam Wook Kim, Chang Won Lee, Jonghyuk Jung, Eun-Young Ko, **Juho Kim**, & Jihee Kim.
CHI 2015 Extended Abstracts.
- [p.21] Understanding Learners' General Perception Towards Learning With MOOC Classmates: An Exploratory Study.
Soon Hau Chua, **Juho Kim**, Toni-Jan Keith Monserrat, & Shengdong Zhao.
Learning at Scale 2015 poster.
- [p.20] Supporting Instructors in Collaborating with Researchers using MOOClets.
Joseph Jay Williams, **Juho Kim**, & Brian C. Keegan.
Learning at Scale 2015 poster.
- [p.19] Using and Designing Platforms for In Vivo Educational Experiments.
Joseph Jay Williams, Korinn Ostrow, Xi Xiong, Elena Glasman, **Juho Kim**, Samuel Maldonado, Justin Reich, & Neil Heffernan.
Learning at Scale 2015 poster.
- [p.18] The MOOClet Framework: Improving Online Education through Experimentation and Personalization of Modules.
Joseph Jay Williams, Na Li, **Juho Kim**, Jacob Whitehill, Samuel Maldonado, Mykola Pechenizkiy, Larry Chu, & Neil Heffernan.
Social Science Research Network (SSRN) Online, November 12, 2014. SSRN ID: 2523265.

- [p.17] Connecting Collaborative & Crowd Work with Online Education.
Joseph Jay Williams, Markus Krause, Praveen Paritosh, Jacob Whitehill, Justin Reich, **Juho Kim**, Piotr Mitros, Neil Heffernan, & Brian C. Keegan.
CSCW 2015 Workshop Program.
- [p.16] Incorporating Collaborative Learning Into xMOOCs: A Proposal of Future Research Directions.
Soon Hau Chua, **Juho Kim**, Toni-Jan Keith Monserrat, & Shengdong Zhao.
CSCW 2015 Workshop on Connecting Collaborative & Crowd Work with Online Education.
- [p.15] The MOOClet Framework: Improving Online Education through Experimentation and Personalization of Modules.
Joseph Jay Williams, Na Li, **Juho Kim**, Jacob Whitehill, Samuel Maldonado, Mykola Pechenizkiy, Larry Chu, & Neil Heffernan.
NIPS 2014 Workshop on Human Propelled Machine Learning.
- [p.14] Learnersourcing: Improving Video Learning with Collective Learner Activity.
Juho Kim.
HCOMP 2014 Workshop on Crowdsourcing, Online Education, and Massive Open Online Courses.
- [p.13] Leveraging video interaction and content to improve video learning.
Juho Kim, Shang-Wen (Daniel) Li, Carrie J. Cai, Krzysztof Z. Gajos, & Robert C. Miller.
CHI 2014 Workshop on Learning Innovation at Scale.
- [p.12] Interaction peaks and data-driven interfaces for online lecture videos.
Juho Kim.
Quanta-CSAIL 2014 workshop poster.
- [p.11] Enhancing how-to videos with crowdsourcing and learnersourcing.
Juho Kim.
Quanta-CSAIL 2014 workshop poster.
- [p.10] Cobi: community-informed conference scheduling.
Juho Kim, Haoqi Zhang, Paul André, Lydia B. Chilton, Anant Bhardwaj, David Karger, Steven P. Dow, & Robert C. Miller.
HCOMP 2013 demo.
- [p.9] User interfaces and crowdsourcing workflows for enhancing the video learning experience.
Juho Kim, Phu Nguyen, Robert C. Miller, & Krzysztof Z. Gajos.
SoCS 2013 Doctoral Symposium.
- [p.8] Learnersourcing subgoal labeling to support learning from how-to videos.
Juho Kim, Robert C. Miller, & Krzysztof Z. Gajos.
CHI2013 Extended Abstracts. (32% acceptance rate)
- [p.7] ToolScope: enhancing the learning experience of how-to videos.
Juho Kim.
CHI2013 Extended Abstracts. (32% acceptance rate)
2nd place, Student Research Competition.
- [p.6] Generating annotations for how-to videos using crowdsourcing.
Phu Nguyen, **Juho Kim**, & Robert C. Miller.
CHI2013 Extended Abstracts. (32% acceptance rate)
- [p.5] Cobi: communitysourcing large-scale conference scheduling.

Haoqi Zhang, Paul André, Lydia Chilton, **Juho Kim**, Steven P. Dow, Robert C. Miller, Wendy MacKay, & Michel Beaudouin-Lafon.

CHI2013 Interactivity. (32% acceptance rate)

[p.4] Mechanical Turk is Not Anonymous.

Matthew Lease, Jessica Hullman, Jeffrey P. Bigham, Michael S. Bernstein, **Juho Kim**, Walter S. Lasecki, Saeideh Bakhshi, Tanushree Mitra, & Robert C. Miller.

Social Science Research Network (SSRN) Online, March 6, 2013. SSRN ID: 2228728.

[p.3] Photoshop with friends: a synchronous learning community for graphic design.

Juho Kim, Ben Malley, Joel Brandt, Mira Dontcheva, Diana Joseph, Krzysztof Z. Gajos, & Robert C. Miller.

CSCW 2012 Interactive Demo.

[p.2] Crowdsourcing interface for collecting correspondences of web pages.

Juho Kim, Ranjitha Kumar, & Scott R. Klemmer.

UIST 2009 Poster.

[p.1] Automatic retargeting of web page content.

Ranjitha Kumar, **Juho Kim**, & Scott R. Klemmer.

CHI 2009 Extended Abstracts.

Unpublished Manuscripts and Tech Reports

[u.2] Learning Graphic Design Skills on the Web: Challenges in Locating, Understanding, and Employing External Help.

Juho Kim, Benjamin Malley, Joel Brandt, Mira Dontcheva, Diana Joseph, Krzysztof Z. Gajos, & Robert C. Miller.

Unpublished Manuscript, 2011.

[u.1] ReadWriter: Task Automation and Feedback Support for Bloggers with Inline Syntax [[]].

Juho Kim, Chen-Hsiang Yu, Robert C. Miller, & Krzysztof Z. Gajos.

Unpublished Manuscript, 2011.

TEACHING

Instructor

- Introduction to Human-Computer Interaction (KAIST CS374) Spring 2017
- School of Computing Colloquium (KAIST CS966/986), with Dongman Lee Spring 2017
- Crowdsourcing (KAIST CS492): 22 students Fall 2016
- User Interface Design (MIT 6.813/6.831), with Robert C. Miller: 200 students Spring 2015

Teaching Assistant

- User Interface Design (MIT 6.813/6.831) for Robert C. Miller Spring 2012

ADVISING & MENTORING

Current Ph.D. Students

- **Minsuk Chang** (Ph.D. student at KAIST) Mar.2016–Present
- **Yoo Jin Lim** (Ph.D. student at KAIST) Sep.2016–Present
- **Sung-Chul Lee** (Ph.D. student at KAIST, Co-advised by Jihee Kim) Aug.2016–Present

Current M.S. Students

- **Paul Grau** (M.S. student at KAIST/TU Berlin dual-degree program) Sep.2016–Present

Undergraduate Mentoring

- **Jaesung Huh** (SNU) Jan.2017–Present
- **Deokseong Kim** (KAIST) Jan.2017–Present
- **Kyung Je Jo** (KAIST URP) Jan.2017– Present
- **Soyeon Park** (KAIST) Sep.2016–Present
- **Ching (Jean) Liu** (NTHU Taiwan, co-mentoring with Hao-Chuan Wang) Sep.2016–Present
- **Juho Sun** (KAIST) Sep.2016–Dec.2016
- **Hyungyu Shin** (SNU) Jul.2016–Present
- **Hyeungshik Jung** (POSTECH) Jul.2016–Present
- **Dongkwan Kim** (KAIST) Jul.2016–Dec.2016
- **Jiwoo Park** (KAIST) Jul.2016–Dec.2016
- **Taekyung Park** (SNU) Jul.2016–Aug.2016
- **Hyun Sung Cho** (KAIST URP) Dec.2015–Present

Other Research Mentoring

- **Dae Hyun Kim & Sherry Ruan** (Ph.D. students at Stanford) Jan.2016–Present
Text-Chart Reference Inference. Co-mentoring with Maneesh Agrawala at Stanford.
- **Vivian Hare** (Undergraduate at Stanford) Jan.2016–Present
Cooking Recipe Mining at Scale. Co-mentoring with Maneesh Agrawala at Stanford.
- **Janel Lee** (Undergraduate at Stanford) Sep.2015–Present
Deeply Linked Multimedia Library. Co-mentoring with Maneesh Agrawala at Stanford.
- **Chunjong Park, Joonseong Lim** (M.S. students at KAIST) Aug.2015–Present
Social Context Awareness Support ([c.21]). Co-mentoring with Sung-Ju Lee and Dongman Lee at KAIST.
- **Soon Hau Chua** (Ph.D. student at National University of Singapore) Jun.2014–Present
Discussion Support for MOOCs. Co-mentoring with Shengdong Zhao at NUS. ([p.21])
- **Peter Githaiga** (UROP, undergraduate at MIT) Nov.2014–May 2015
Integrating LectureScape into the edX platform. Co-mentored with Piotr Mitros at edX.
- **Nam Wook Kim** (Ph.D. student at Harvard SEAS), Eun-Young Ko, Chang Won Lee, Jonghyuk Jung, Blaire Han, Hyun Sung Cho (Undergraduates at KAIST) Dec.2013–Present
BudgetWiser: Crowdsourcing budgetary opinions and promoting online discussions. ([c.18][c.15][p.23][p.22])
Co-mentoring with Jihee Kim at KAIST.
- **Sarah Weir** (Super UROP, undergraduate at MIT) Sep.2013–May 2014
Applied learnersourcing to label subgoal structure from how-to videos ([c.13]). Sarah won 2nd place in Student Research Competition at CHI2014 & Robert M. Fano UROP Award at MIT EECS.
- **Carolyn Chang & Danny Sanchez** (Undergraduates at MIT) Jul.2013–Aug.2013
Lecture video annotation tool (part of 6.mitx).
- **Megan O’Leary & Joseph Hanley** (Undergraduates at MIT) Jul.2013–Aug.2013
edX student activity visualization (part of 6.mitx).
- **Michelle Johnson & Ashley Cho** (Undergraduates at MIT) Jul.2013–Aug.2013
edX grade distribution visualization (part of 6.mitx).
- **Phu Nguyen** (Super UROP, undergraduate at MIT) Sep.2012–May 2013
Crowdsourcing step-by-step information from how-to videos ([c.9][p.6]).

INVITED TALKS

Interaction at Scale

- Keynote at LG Electronics UX Conference 2016 Oct 4, 2016

Recipe Mining at Scale

- Brown Institute Media Innovation Showcase 2016, Stanford University Sep. 29, 2016

Multimedia for personal narratives: Working with the Doug Engelbart archives

- The #mediaX2016 Conference, Stanford University May 17, 2016

Organic crowdsourcing systems

- AAAI Spring 2016 Symposium Mar. 22, 2016
- Social Algorithms Lab, Stanford University Jan. 27, 2016

Video interaction analytics

- Lytics Seminar Class (EDUC 407), Stanford University Jan. 28, 2016

Learnersourcing: Improving video learning with collective learner activity

- Dept. of Education, Seoul National University Jan. 12, 2017
- School of Computing Colloquium, KAIST Sep. 26, 2016
- University of Washington CSE Seminar May 18, 2016
- CMU Crowdsourcing Lunch Seminar Dec. 1, 2015
- Graphics Café, Stanford University Oct. 29, 2015
- Berkeley Institute of Design Oct. 27, 2015
- Udemy Sep. 2, 2015
- MIT EECS Thesis Defense Jul. 30, 2015
- Graphics Group, MIT CSAIL May 6, 2015
- Post-CHI Workshop, KAIST Apr. 24, 2015
- Computer Science, KAIST Apr. 15, 2015
- Department of Information Convergence, Seoul National University GSCST Apr. 13, 2015
- Microsoft Research Mar. 31, 2015
- Computer Science & Engineering, University of Michigan Mar. 10, 2015
- Information Science, Cornell University Feb. 25, 2015
- Creative Technologies Lab, Adobe Research Feb. 12, 2015

Data-driven interaction techniques for improving navigation of educational videos

- Boston University Image and Video Computing group seminar Oct. 27, 2014
- HarvardX Research Colloquium Sep. 26, 2014

The future of video

- Samsung Economics Research Institute Dec. 30, 2013

Video learning at scale with crowdsourcing and learnersourcing

- UVR Lab, Graduate School of Culture Technologies, KAIST Dec. 27, 2013
- Dept. of Knowledge Service Engineering, KAIST Dec. 23, 2013
- UI/UX Inventor Club, Korea Dec. 20, 2013
- Korean Society of Design Science Seminar Series, Sungkyunkwan University Dec. 19, 2013
- HCI Lab, Seoul National University Dec. 17, 2013

Enhancing the learning experience of how-to videos

- Graphics Group, MIT CSAIL Apr. 10, 2013
- edX Learning Sciences Team Mar. 7, 2013
- Computer Science Department, KAIST Dec. 21, 2012

- ROSAEC Seminar Series, Seoul National University Dec. 18, 2012
- Epoch Foundation @ MIT Oct. 17, 2012

Online education and massive open online courses (MOOCs)

- Open Entrepreneur Center Dec. 27, 2012
- Todam: Boston Korean Students Meeting Oct. 13, 2012
- Samsung Scholarship Open Talk Jun. 26, 2012

Crowdsourcing: engineering collective intelligence

- Korean Society of Design Science Seminar Series, Yonsei University Dec. 20, 2012
- Department of Software, Sungkyunkwan University Jul. 3, 2012
- Young Generation Technical and Leadership, KSEA Jan. 6, 2012
- Todam: Boston Korean Students Meeting Oct. 8, 2011
- Samsung Scholarship Open Talk Jun. 29, 2011

Creativity support tools

- HCI Lab, Seoul National University Jan. 4, 2011
- Department of Information Convergence, Seoul National University GSCST Jan. 5, 2011

SELECTED PRESS

Stanford Daily | 2016.09.30

Brown Institute showcase features tour guide drones, defense contract database

<http://www.stanforddaily.com/2016/09/30/brown-institute-showcase-features-tour-guide-drones-defense-contract-database/>

CBC Radio: Spark | 2015.02.20

Crowdsourcing better how-to videos

<http://www.cbc.ca/radio/spark/276-william-gibson-banner-ads-as-art-crowdsourcing-better-how-to-videos-and-more-1.2965079/crowdsourcing-better-how-to-videos-1.2965157>

BostInno | 2015.02.16

MIT Study Shows How Educational Videos Could Be Better

<http://bostinno.streetwise.co/2015/02/16/mit-study-shows-how-educational-videos-could-be-better/>

MIT News Office | 2015.02.11

Better how-to videos

<http://newsoffice.mit.edu/2015/better-how-to-videos-0211/>

Fast Company Design | 2015.01.29

MIT Students Redesign The How-To Video, In 4 Easy Steps

<http://www.fastcodesign.com/3041579/mit-students-redesign-the-how-to-video-in-4-easy-steps/>

Forbes | 2014.08.11

MIT Team Turns 6.9 Million Clicks Into Insights To Improve Online Education

<http://www.forbes.com/sites/peterhigh/2014/08/11/mit-team-turns-6-9-million-clicks-into-insights-to-improve-online-education/>

eCampus News | 2014.08.05

Learning from MOOC mistakes, one click at a time

<http://www.ecampusnews.com/top-news/mooc-learning-767/>

TICBeat | 2014.08.02 (Spanish)

El MIT investiga el camino hacia el aprendizaje online más eficiente

<http://www.ticbeat.com/tecnologias/mit-investiga-aprendizaje-online-eficiente/>

Bostinno | 2014.07.31

MIT-Spun 'YouTube for MOOCs' is Solving a Major Problem Plaguing Online Education

<http://bostinno.streetwise.co/2014/07/31/how-do-online-learners-watch-videos-lecturescape-mits-youtube-for-moocs-516442/>

News Peppermint | 2014.07.29 (Korean)

온라인 교육의 성패를 가르는 요인들
http://newspeppermint.com/2014/07/29/online_education/

MIT News Office | 2014.07.28

What 6.9 million clicks tell us about how to fix online education
<http://newsoffice.mit.edu/2014/what-69-million-clicks-tell-us-about-how-fix-online-education/>

PROFESSIONAL SERVICE

Departmental Committees

- Public Relations 2016–Present
- Future Planning 2016–Present
- Graduate Admissions 2016–Present

Program Committee (meta reviewer)

- UIST 2017
- CSCW 2017 (Systems subcommittee)
- Learning at Scale 2015-2017
- CHI 2015 Works-in-Progress

Program Committee (review only)

- HCOMP 2016
- WWW 2016
- IUI 2016
- HCI Korea 2016-2017

Reviewer

- CHI 2008-2017
- UIST 2012 & 2014-2017
- CSCW 2008 & 2011-2017
- MobileHCI 2014-2016
- SIGGRAPH Asia 2015
- InfoVis 2015
- GI 2015-2016
- ICWSM 2014
- EDM 2014
- HCOMP 2013
- IWIC 2009
- Journals: FnTHCI, UMUAI, Journal of Selected Topics in Signal Processing, IJAIED

Demos Co-Chair – UIST 2017-2018

Posters Co-Chair – UIST 2015-2016

Workshop Organizer – Crowdsourcing Law and Policy (CSCW 2017)

Head Organizer – KAIST@HCI Seminar Series 2016–Present

Conference Organizer – Webmaster (CHI 2015)

Conference Organizer – Scheduling + communitysourcing (CHI 2013-2015, CSCW 2014-2015)

Workshop Organizer – Connecting Collaborative & Crowd Work with Online Education (CSCW 2015)

Workshop Organizer – CrowdCamp (HCOMP 2013-2014)

Student Volunteer – CHI 2010-2012, UIST 2012, CSCW 2013, APCHI 2008

Head of Digital Learning Subcommittee – MIT Graduate Student Council	2013–2014
Organizer – Todam interdisciplinary weekly seminar	2012–2014
Organizer – MIT CSAIL HCI Seminar Series	2011–2015
Organizer – BostonCHI Labs Research Consortium	2011–2015
President – MIT EECS Korean Graduate Student Association	2012–2013

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