JUHO KIM

Associate Professor, School of Computing at KAIST
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juhokim@kaist.ac.kr | juhokim.com (personal) | kixlab.org (lab)

EDUCATION

Massachusetts Institute of Technology — Cambridge, MA
Ph.D. in Electrical Engineering and Computer Science — Aug.2015
Thesis: Learnersourcing: Improving Learning with Collective Learner Activity
Advisors: Robert C. Miller & Krzysztof Z. Gajos

Stanford University — Stanford, CA
M.S. in Computer Science (Specialization: Human-Computer Interaction) — Jun.2010
Advisor: Scott R. Klemmer

Seoul National University — Seoul, Korea
B.S. in Computer Science and Engineering (Summa Cum Laude) — Jun.2008

RESEARCH INTERESTS

Human-computer interaction, Human-AI interaction, Social computing, Learning at scale, Video interaction, Crowdsourcing, Civic engagement, Data-driven interaction

EMPLOYMENT

School of Computing, KAIST — Daejeon, Korea
Associate Professor of Computer Science — Mar.2020–Present
Assistant Professor of Computer Science — Jul.2016–Feb.2020
Director of KIXLAB (the KAIST Interaction Lab) & Founding Member of HCI@KAIST
Affiliate Faculty: Graduate School of AI, KI for AI, Institute for Security Convergence Research

Computer Science Department & Brown Institute, Stanford University — Stanford, CA
Visiting Assistant Professor & Brown Fellow. Host: Maneesh Agrawala — Aug.2015–Jun.2016

User Interface Design Group, MIT CSAIL — Cambridge, MA
Research Assistant. Mentor: Robert C. Miller — Sep.2010–Aug.2015

Microsoft Research — Redmond, WA
Research Intern. Mentors: Meredith R. Morris & Andrés Monroy-Hernández — May 2014–Aug. 2014

Learning Sciences Team, edX — Cambridge, MA
Research Intern. Mentor: Piotr Mitros — May 2013–Aug.2013

Creative Technologies Lab, Adobe Systems Inc. — San Francisco, CA
Research Intern. Mentor: Joel Brandt — May 2011–Sep.2011

USER Group, IBM Almaden Research Center — San Jose, CA
Research Intern. Mentors: Eser Kandogan & Thomas P. Moran — May 2010–Aug.2010

HCI Group, Stanford University — Stanford, CA
Research Assistant. Mentor: Scott R. Klemmer — Apr.2009–Jun.2010

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

Samsung Electronics Co., Ltd. Software Center Suwon, Korea
Summer Intern Jul.2003–Aug.2003

AWARDS & HONORS

Kyu-Young Whang School of Computing Career Award Jun 2020
For outstanding research achievements for junior faculty in KAIST School of Computing

Honorable Mention Award May 2020
DIS 2020; among the top 5% of all submissions [c.44]

Grand Prize for Creative Teaching Mar 2020
2020 Faculty Award in Commemoration of the 49th Anniversary of Founding of KAIST

Songam Distinguished Research Award Feb 2020
For outstanding research achievements for junior faculty in KAIST College of Engineering

ACM Excellence in Service Award Dec 2019
Recognition for service as a papers co-chair for CSCW 2020

Honorable Mention Award Nov 2019
CSCW 2019; among the top 5% of all submissions [c.36]

Excellence in Teaching Award Feb.2019
2019 Faculty Award in Commemoration of the 48th Anniversary of Founding of KAIST

Honorable Mention Award Apr.2018
CHI 2018; among the top 4% of all submissions [c.28]

Best Student Paper Honorable Mention Award Feb.2018
IUI 2018; among the top 4 awarded papers [c.23]

Best Paper Runner-Up Oct.2017
GroupSight 2017 Workshop on Human Computation for Image and Video Analysis @ HCOMP 2017 [p.39]

Honorable Mention Award May 2016
CHI 2016; among the top 4% of all submissions [c.19]

Honorable Mention Award Apr.2016
Learning at Scale 2016; among the top 4 awarded papers [c.18]

mediaX "Memory, Estates and Legacies in the Digital World" Grant Sep.2015
$30K, with Maneesh Agrawala, Stanford University

Brown Fellowship Aug.2015
Brown Institute, Stanford University

Honorable Mention Award Apr.2015
CHI 2015; among the top 5% of all submissions [c.15]

Honorable Mention Award Apr.2015
CHI 2015; among the top 5% of all submissions [c.14]

Honorable Mention Award Apr.2015
CHI 2015; among the top 5% of all submissions [c.13]

Honorable Mention Award Apr.2014
CHI 2014; among the top 5% of all submissions [c.8]

Honorable Mention Award Apr.2014
CHI 2014; among the top 5% of all submissions [c.7]

Notable Paper Award Nov.2013
HCOMP 2013 [c.4]

2nd Place, Student Research Competition May 2012
CHI 2013; $300 award + $500 support [p.7]

1st Place Technical Lecture Award Jan.2012
The 8th Annual Young Generation Technical and Leadership Conference

Best Talk Award Jun.2011
Samsung Scholarship Open Talk at the 2011 Samsung Scholarship Academic Camp

The Samsung Scholarship 2010–2015
Tuition and living costs covered for Ph.D. studies ($50K per year, for 5 years)

The Samsung Scholarship 2008–2010
Tuition and living costs covered for Master's studies ($50K per year, for 2 years)

Independent Study Scholarship Oct.2007
$1K Research grant awarded by Center for Teaching & Learning, Seoul National University

Seoul National University Scholarship Aug.2001–Aug.2004
Merit-based scholarships for 7 semesters

PUBLICATIONS

Conference & Journal Papers

[c.62] SoftVideo: Improving the Learning Experience of Software Tutorial Videos with Collective Interaction Data.

Saelyne Yang, Jisu Yim, Aitolkyn Baigutanova, Seoyoung Kim, Minsuk Chang, **Juho Kim**.
IUI 2022: Annual Conference on Intelligent User Interfaces. *(accepted) (24.5% acceptance rate)*

[c.61] Understanding Distributed Tutorship in Online Language Tutoring.

Meng Xia, Yankun Zhao, Mehmet Hamza Erol, Jihyeong Hong, **Juho Kim**.
LAK 2022: International Learning Analytics and Knowledge Conference. *(accepted) (29.5% acceptance rate)*

[c.60] Promptiverse: Scalable Generation of Scaffolding Prompts through Human-AI Hybrid Knowledge Graph Annotation.

Yoonjoo Lee, John Joon Young Chung, Tae Soo Kim, Jean Y Song, **Juho Kim**.
CHI 2022: ACM Conference on Human Factors in Computing Systems. *(conditionally accepted) (12.5% acceptance rate in the first round)*

[c.59] Stylette: Styling the Web with Natural Language.

Tae Soo Kim, DaEun Choi, Yoonseo Choi, **Juho Kim**.
CHI 2022: ACM Conference on Human Factors in Computing Systems. *(conditionally accepted) (12.5% acceptance rate in the first round)*

[c.58] FitVid: Responsive and Flexible Video Content Adaptation.

Jeongyeon Kim, Yubin Choi, Minsuk Kahng, **Juho Kim**.
CHI 2022: ACM Conference on Human Factors in Computing Systems. *(conditionally accepted) (12.5% acceptance rate in the first round)*

[c.57] Mobile-Friendly Content Design for MOOCs: Challenges, Requirements, and Design Opportunities.

Jeongyeon Kim, Yubin Choi, Meng Xia, **Juho Kim**.

CHI 2022: ACM Conference on Human Factors in Computing Systems. (conditionally accepted) (12.5% acceptance rate in the first round)

[c.56] AlgoSolve: Supporting Subgoal Learning in Algorithmic Problem-Solving with Learnersourced Microtasks.

Kabdo Choi, Hyungyu Shin, Meng Xia, **Juho Kim**.
CHI 2022: ACM Conference on Human Factors in Computing Systems. (conditionally accepted) (12.5% acceptance rate in the first round)

[c.55] Cocomix: Utilizing Comments to Improve Non-Visual Webtoon Accessibility.

Mina Huh, YunJung Lee, Dasom Choi, Haesoo Kim, Uran Oh, **Juho Kim**.
CHI 2022: ACM Conference on Human Factors in Computing Systems. (conditionally accepted) (12.5% acceptance rate in the first round)

[c.54] The MOOClet Framework: Unifying Experimentation, Dynamic Improvement, and Personalization in Online Courses.

Mohi Reza, **Juho Kim**, Ananya Bhattacharjee, Anna N. Rafferty, Joseph Jay Williams.
L@S 2021: ACM Conference on Learning at Scale.

[c.53] StarryThoughts: Facilitating Diverse Opinion Exploration on Social Issues.

Hyunwoo Kim, Haesoo Kim, Kyung Je Jo, **Juho Kim**.
CSCW 2021. Proceedings of the ACM on Human-Computer Interaction Vol. 5, Issue CSCW1, Article 66 (April 2021).

[c.52] Supporting Collaborative Sequencing of Small Groups through Visual Awareness.

Tae Soo Kim, Nitesh Goyal, Jeongyeon Kim, **Juho Kim**, Sungsoo Ray Hong.
CSCW 2021. Proceedings of the ACM on Human-Computer Interaction Vol. 5, Issue CSCW1, Article 176 (April 2021).

[c.51] RubySlippers: Supporting Content-based Voice Navigation for How-to Videos.

Minsuk Chang, Mina Huh, **Juho Kim**.
CHI 2021: ACM Conference on Human Factors in Computing Systems. (26.3% acceptance rate)

[c.50] Personalizing Ambience and Illusionary Presence: How People Use "Study with Me" Videos to Create Effective Studying Environments.

Yoonjoo Lee, John Yoon Young Chung, Jean Young Song, Minsuk Chang, **Juho Kim**.
CHI 2021: ACM Conference on Human Factors in Computing Systems. (26.3% acceptance rate)

[c.49] Winder: Linking Speech and Visual Objects to Support Communication in Asynchronous Collaboration.

Tae Soo Kim, Seungsu Kim, Yoonseo Choi, **Juho Kim**.
CHI 2021: ACM Conference on Human Factors in Computing Systems. (26.3% acceptance rate)

[c.48] Understanding the Role of User Interface for Multi-Criteria Decision-Making in Supporting Exploratory Usage of Information Systems.

Sungsoo Ray Hong, Rafal Kocilenik, Cecilia Aragon, Sarah Battersby, **Juho Kim**.
HICCS-54: Proceedings of the 54th Hawaii International Conference on System Sciences. 2021.

[c.47] ProtoChat: Supporting the Conversation Design Process with Crowd Feedback.

Yoonseo Choi, Toni-Jan Monserrat, Jeongeon Park, Hyungyu Shin, Nyoungwoo Lee, **Juho Kim**.
CSCW 2020. Proceedings of the ACM on Human-Computer Interaction Vol. 4, Issue CSCW3, Article 225 (December 2020).

[c.46] Messaging Beyond Texts with Real-time Image Suggestions.

Joon-Gyum Kim, Taesik Gong, Kyungsik Han, **Juho Kim**, JeongGil Ko, Sung-Ju Lee.
MobileHCI 2020: International Conference on Human-Computer Interaction with Mobile Devices and Services.

[c.45] Workflow Graphs: A Computational Model of Collective Task Strategies for 3D Design Software.

Minsuk Chang, Ben Lafreniere, **Juho Kim**, George Fitzmaurice, Tovi Grossman.

GI 2020: Graphics Interface.

[c.44] Understanding How People Reason about Aesthetic Evaluations of Artificial Intelligence.
Changhoon Oh, Seonghyeon Kim, Jinhan Choi, Jinsu Eun, Soomin Kim, **Juho Kim**, Joonhwan Lee, Bongwon Suh.
DIS 2020: ACM Conference on Designing Interactive Systems. (24.0% acceptance rate)
Honorable Mention Award (top 5%).

[c.43] I Share, You Care: Private Status Sharing and Sender-Controlled Notifications in Mobile Instant Messaging.
Hyunsung Cho, Jinyoung Oh, **Juho Kim**, Sung-Ju Lee.
CSCW 2020. Proceedings of the ACM on Human-Computer Interaction Vol. 4, Issue CSCW1, Article 34 (May 2020).

[c.42] SolutionChat: Real-time Moderator Support for Chat-based Structured Discussion.
Sung-Chul Lee, Jaeyoon Song, Seongho Park, Eun-Young Ko, Jihee Kim, **Juho Kim**.
CHI 2020: ACM Conference on Human Factors in Computing Systems. (24.3% acceptance rate)

[c.41] Understanding Users' Perception Towards Automated Personality Detection with Group-specific Behavioral Data.
Seoyoung Kim, Arti Thakur, **Juho Kim**.
CHI 2020: ACM Conference on Human Factors in Computing Systems. (24.3% acceptance rate)

[c.40] Snapstream: Snapshot-based Interaction in Live Streaming for Visual Art.
Saelyne Yang, Changyoon Lee, Hijung Valentina Shin, **Juho Kim**.
CHI 2020: ACM Conference on Human Factors in Computing Systems. (24.3% acceptance rate)

[c.39] No More One Liners: Bringing Context into Emoji Recommendations.
Joon-Gyum Kim, Taesik Gong, Bogoan Kim, JaeYeon Park, Woojeong Kim, Evey Huang, Kyungsik Han, **Juho Kim**, JeongGil Ko, Sung-Ju Lee.
ACM Transactions on Social Computing (TSC) Volume 3, Issue 2 (April 2020, Article No. 9).

[c.38] Confronting the tensions where UX meets AI.
Henriette Cramer, **Juho Kim**.
ACM Interactions 26.6 (2019): 69-71.

[c.37] Design for Collaborative Information-Seeking: Understanding User Challenges and Deploying Collaborative Dynamic Queries.
Sungsoo (Ray) Hong, Minhyang (Mia) Suh, Tae Soo Kim, Irina Smoke, Sang-Wha Sien, Janet Ng, Mark Zachry, **Juho Kim**.
CSCW 2019. Proceedings of the ACM on Human-Computer Interaction Vol. 3, Issue CSCW, Article 106 (November 2019). (31% acceptance rate)

[c.36] Efficient Elicitation Approaches to Estimate Collective Crowd Answers.
John Joon Young Chung, Jean Y. Song, Sindhu Kutty, Sungsoo (Ray) Hong, **Juho Kim**, Walter S. Lasecki.
CSCW 2019. Proceedings of the ACM on Human-Computer Interaction Vol. 3, Issue CSCW, Article 62 (November 2019). (31% acceptance rate)
Honorable Mention Award (top 5%).

[c.35] How to Design Voice Based Navigation for How-To Videos.
Minsuk Chang, Anh Truong, Oliver Wang, Maneesh Agrawala, **Juho Kim**.
CHI 2019: ACM Conference on Human Factors in Computing Systems. (23.8% acceptance rate)

[c.34] Popup: Reconstructing 3D Video Using Particle Filtering to Aggregate Crowd Responses.
Jean Y. Song, Stephan J. Lemmer, Xieyang Liu, Shiyan Si, **Juho Kim**, Jason J. Corso, Walter S. Lasecki.
IUI 2019: ACM International Conference on Intelligent User Interfaces. (25% acceptance rate)

[c.33] Personalized Motivation-supportive Messages for Increasing Participation in Crowd-civic Systems.
Paul Grau, Babak Naderi, **Juho Kim**.
CSCW 2018. Proceedings of the ACM on Human-Computer Interaction Vol. 2, Issue CSCW, Article 60 (November 2018). *(24.9% acceptance rate)*

[c.32] FourEyes: Leveraging Tool Diversity as a Means to Improve Aggregate Accuracy in Crowdsourcing.
Jean Y. Song, Raymond Fok, **Juho Kim**, Walter S. Lasecki.
ACM Transactions on Interactive Intelligent Systems (TIIS).

[c.31] Facilitating Document Reading by Linking Text and Tables.
Dae Hyun Kim, Enamul Hoque, **Juho Kim**, Maneesh Agrawala.
UIST 2018: ACM Symposium on User Interface Software and Technology. *(21.3% acceptance rate)*

[c.30] Understanding the Effect of In-Video Prompting on Learners and Instructors.
Hyungyu Shin, Eun Young Ko, Joseph Jay Williams, **Juho Kim**.
CHI 2018: ACM Conference on Human Factors in Computing Systems. *(25.8% acceptance rate)*

[c.29] RecipeScape: An Interactive Tool for Analyzing Cooking Instructions at Scale.
Minsuk Chang, Leonore Guillain, Hyeungshik Jung, Vivian Hare, **Juho Kim**, Maneesh Agrawala.
CHI 2018: ACM Conference on Human Factors in Computing Systems. *(25.8% acceptance rate)*

[c.28] ConceptScape: Collaborative Concept Mapping for Video Learning.
Ching Liu, **Juho Kim**, Hao-Chuan Wang.
CHI 2018: ACM Conference on Human Factors in Computing Systems. *(25.8% acceptance rate)*
Honorable Mention Award (top 5%).

[c.27] Enhancing Online Problems Through Instructor-Centered Tools for Randomized Experiments.
Joseph Jay Williams, Anna Rafferty, Dustin Tingley, Andrew Ang, Walter Lasecki, **Juho Kim**.
CHI 2018: ACM Conference on Human Factors in Computing Systems. *(25.8% acceptance rate)*

[c.26] To Distort or Not to Distort: Distance Cartograms in the Wild.
Sungsoo (Ray) Hong, Minjoon Yoo, Bonnie Chinh, Amy Han, Sarah Battersby, **Juho Kim**.
CHI 2018: ACM Conference on Human Factors in Computing Systems. *(25.8% acceptance rate)*

[c.25] Collaborative Dynamic Queries: Supporting Distributed Small Group Decision-making.
Sungsoo (Ray) Hong, Minhyang (Mia) Suh, Nathalie Henry Riche, Jooyoung Lee, **Juho Kim**, Mark Zachry.
CHI 2018: ACM Conference on Human Factors in Computing Systems. *(25.8% acceptance rate)*

[c.24] BebeCode: Collaborative Child Development Tracking System.
Seokwoo Song, **Juho Kim**, Bumsoo Kang, Wonjeong Park, John Kim.
CHI 2018: ACM Conference on Human Factors in Computing Systems. *(25.8% acceptance rate)*

[c.23] Two Tools are Better Than One: Tool Diversity as a Means of Improving Aggregate Crowd Performance.
Jean Y. Song, Raymond Fok, Alan Lundgard, Fan Yang, **Juho Kim**, Walter S. Lasecki.
IUI 2018: ACM International Conference on Intelligent User Interfaces. *(23% acceptance rate)*
Best Student Paper Honorable Mention (among the top 4 awarded papers).

[c.22] Korero: Facilitating Complex Referencing of Visual Materials in Asynchronous Discussion Interface.
Soon Hau Chua, Toni-Jan Keith Monserrat, Dongwook Yoon, **Juho Kim**, Shengdong Zhao.
CSCW 2018. Proceedings of the ACM on Human-Computer Interaction Vol. 1, Issue CSCW, Article 34 (November 2017). *(27.3% acceptance rate, 19 pages)*

[c.21] 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. *(29.3% acceptance rate, 10 pages)*

[c.20] "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. (35% acceptance rate, 14 pages)

[c.19] Revising Learner Misconceptions Without Feedback: Prompting for Reflection on Anomalies.
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.18] 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.17] 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.16] 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.15] 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.14] 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.13] 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.12] 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.11] 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.10] 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.9] 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.8] 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.7] 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.6] 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.5] 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.4] 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.3] 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.2] 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.1] 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)*

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.65] XDesign: Integrating Interface Design into Explainable AI Education.
Hyungyu Shin, Nabila Sindi, Yoonjoo Lee, Jaeryoung Ka, Jeanyoung Song, **Juho Kim**.
SIGCSE TS 2022 Poster. *(to appear)*

[p.64] How Does Netflix "Understand" Me?: Exploring End-user Needs to Design Human-centered Explanations.
Yoonseo Choi, Eun Jeong Kang, **Juho Kim**.
NeurIPS 2021 Workshop on Human Centered AI.

[p.63] Supporting Dynamic Construction of Datasets through Annotator Suggestions.
Jeongeon Park, Eunyoung Ko, Donghoon Han, Jinyeong Yim, **Juho Kim**.
HCOMP 2021 WiP (Works-in-Progress).

[p.62] Improving Readers' Awareness of Divergent Viewpoints by Displaying Agendas of Comments in Online News Discussions.
Taewook Kim, Hyunwoo Kim, Xiaojuan Ma, **Juho Kim**.
CSCW 2021 Posters.

[p.61] Guideline-Based Evaluation and Design Opportunities for Mobile Video-based Learning.
Jeongyeon Kim, **Juho Kim**.
CHI 2021 Extended Abstracts.

[p.60] FitVid: Towards Development of Responsive and Fluid Video Content Adaptation.
Jeongyeon Kim, **Juho Kim**.
The Imagining Post-COVID Education with AI (TIPCE) workshop @ AAAI 2021.

[p.59] Reducing Annotation Artifacts in Crowdsourcing Datasets for Natural Language Processing.
Donghoon Han, **Juho Kim**, Alice Oh.
1st Data Excellence Workshop (DEW 2020) @ HCOMP 2020.

[p.58] AlgoPlan: Supporting Planning in Algorithmic Problem-Solving with Subgoal Diagrams.
Kabdo Choi, Sally Chen, Hyungyu Shin, Jinho Son, **Juho Kim**.
Learning @ Scale 2020 Work-in-Progress.

[p.57] Leveraging the Crowd to Support the Conversation Design Process.
Yoonseo Choi, Hyungyu Shin, Toni-Jan Keith Monserrat, Nyoungwoo Lee, Jeongeon Park, **Juho Kim**.
CHI 2020 Workshop on CUI@CHI: Mapping Grand Challenges for the Conversational User Interface Community.

[p.56] Supporting an Iterative Conversation Design Process.
Yoonseo Choi, Hyungyu Shin, Toni-Jan Keith Monserrat, Nyoungwoo Lee, Jeongeon Park, **Juho Kim**.
CHI 2020 Extended Abstracts.

[p.55] Consensus Building in Collaborative Sequencing with Visual Awareness.
Tae Soo Kim, Sungsoo (Ray) Hong, Nitesh Goyal, Jeongyeon Kim, **Juho Kim**.
CHI 2020 Extended Abstracts.

[p.54] You are How You Behave in Your Group: Predicting Personality via Behaviors in a Co-located Group.
Seoyoung Kim, Arti Thakur, **Juho Kim**.
CSCW 2019 Workshop on Learning from Team and Group Diversity.

[p.53] Improving Users' Algorithmic Understandability and Trust in Content Moderation.
Jibon Naher, Taehyeon An, Nitesh Goyal, **Juho Kim**.
CSCW 2019 Workshop on Contestability In Algorithmic Decision Making.

[p.52] Supporting Instruction of Formulaic Sequences Using Videos at Scale.
Kyung Je Jo, Hyeonggeun Yun, **Juho Kim**.
Learning @ Scale 2019 Work-in-Progress.

[p.51] Sender-Controlled Mobile Instant Message Notifications Using Activity Information.
Hyunsung Cho, Jinyoung Oh, **Juho Kim**, Sung-Ju Lee.
MobiSys 2019 Demo.

[p.50] Bringing Context into Emoji Recommendations.

Joon-Gyum Kim, Taesik Gong, Bogoan Kim, JaeYeon Park, Woojeong Kim, Evey Huang, Kyungsik Han, **Juho Kim**, JeongGil Ko, Sung-Ju Lee.

MobiSys 2019 Poster.

[p.49] User-Centered Graphical Models of Interaction.

Minsuk Chang, **Juho Kim**.

CHI 2019 Workshop on Computational Modeling in Human-Computer Interaction.

[p.48] Readersourcing an Accurate and Comprehensive Understanding of Health-related Information Represented by Media.

Eun-Young Ko, Ching Liu, Hyuntak Cha, **Juho Kim**.

CHI 2019 Workshop on HCI for Accurate, Impartial and Transparent Journalism: Challenges and Solutions.

[p.47] Crowdsourcing Perspectives on Public Policy from Stakeholders.

Hyunwoo Kim, Eun-young Ko, Donghoon Han, Sung-chul Lee, Simon Perrault, Jihee Kim, **Juho Kim**.

CHI 2019 Extended Abstracts.

[p.46] SolveDeep: A System for Supporting Subgoal Learning in Online Math Problem Solving.

Hyoungwook Jin, Minsuk Chang, **Juho Kim**.

CHI 2019 Extended Abstracts.

[p.45] DynamicSlide: Reference-based Interaction Techniques for Slide-based Lecture Videos.

Hyeungshik Jung, Valentina Hijung Shin, **Juho Kim**.

UIST 2018 Poster.

[p.44] DynamicSlide: Exploring the Design Space of Reference-based Interaction Techniques for Slide-based Lecture Videos.

Hyeungshik Jung, Valentina Hijung Shin, **Juho Kim**.

1st workshop on Multimedia for Accessible Human Computer Interface (MAHCI) @ ACM Multimedia 2018.

[p.43] Crowdsourcing and Education: Towards a Theory and Praxis of Learnersourcing.

Shayan Doroudi, Joseph Jay Williams, **Juho Kim**, Thanaporn Patikorn, Korinn S. Ostrow, Douglas Selent, Neil T. Heffernan, Thomas Hills, Carolyn P. Rosé.

13th International Conference of the Learning Sciences (ICLS) 2018 Symposium.

[p.42] Micro-NGO: Tackling Wicked Social Problems with Problem Solving and Action Planning Support in Chat.

Sung-chul Lee, Jihee Kim, **Juho Kim**.

CHI 2018 Extended Abstract.

[p.41] Detecting Personality Unobtrusively from Users' Online and Offline Workplace Behaviors.

Seoyoung Kim, Jiyoun Ha, **Juho Kim**.

CHI 2018 Extended Abstract.

[p.40] Exprgram: A Language Learning Interface for Mastering Pragmatic Competence.

Kyungje Jo, John Joon Young Chung, **Juho Kim**.

CHI 2018 Extended Abstract.

[p.39] Exprgram: A Video-based Language Learning Interface Powered by Learnersourced Video Annotations.

Kyungje Jo, John Joonyoung Chung, **Juho Kim**.

GroupSight 2017 Workshop on Human Computation for Image and Video Analysis @ HCOMP 2017.
Best paper runner-up.

[p.38] VideoScape: Augmenting video learning experience with concept map.
Ching Liu, Hao-Chuan Wang, **Juho Kim**.
TAICHI 2017.

[p.37] Connecting Instructors, Learning Scientists, and Reinforcement Learning Researchers via Collaborative Dynamic Personalized Experimentation.
Joseph Jay Williams, Anna Rafferty, Andrew Ang, Dustin Tingley, Walter Lasecki, **Juho Kim**.
3rd Multidisciplinary Conference on Reinforcement Learning and Decision Making (RLDM 2017).

[p.36] RecipeScape: Mining and Analyzing Diverse Processes in Cooking Recipes.
Minsuk Chang, Vivian Hare, **Juho Kim**, Maneesh Agrawala.
CHI 2017 Extended Abstract.

[p.35] PlayBetter: A Phone-based Baby Play Support System for Childcare Bystander Parents.
Seokwoo Song, **Juho Kim**, John Kim.
CHI 2017 Extended Abstract.

[p.34] Connecting Instructors and Learning Scientists via Collaborative Dynamic Experimentation.
Joseph Jay Williams, Anna Rafferty, Andrew Ang, Dustin Tingley, Walter Lasecki, **Juho Kim.**
CHI 2017 Extended Abstracts.

[p.33] MOOClets: A Framework for Dynamic Experimentation and Personalization.
Joseph Jay Williams, Anna Rafferty, Samuel Maldonado, Andrew Ang, Dustin Tingley, **Juho Kim.**
Learning at Scale 2017 Work-in-Progress.

[p.32] Changing News Media Landscape in South Korea.
Hongjun Lim, Choongho Chung, Jihee Kim, **Juho Kim**, Sue Moon, Meeyoung Cha.
WWW 2017 Workshop on Social News On the Web.

[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.

[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 Companion (workshop).

[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 Learning with Collective Learner Activity.
Juho Kim.
HCOMP 2014 Workshop on Crowdsourcing, Online Education, and Massive Open Online Courses.

[p.13] Leveraging video interaction data and content analysis 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] ToolScape: 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

- Special Topics in Smart Convergence: AI for Smart Life (KAIST CoE491) — Fall 2021
  30 students. Evaluation: /5.00
- Introduction to Social Computing (KAIST CS473) — Fall 2021
  40 students. Evaluation: /5.00
- Introduction to Human-Computer Interaction (KAIST CS374) — Spring 2021
  100 students. Evaluation: 4.57/5.00
- Human-AI Interaction (KAIST CS492), with Jean Young Song — Spring 2021
  13 students. Evaluation: 4.70/5.00
- Introduction to Social Computing (KAIST CS473) — Fall 2020
  67 students. Evaluation: 4.66/5.00
- Human-AI Interaction (KAIST CS492), with Jean Young Song — Fall 2020
  31 students. Evaluation: 4.66/5.00
- Introduction to Human-Computer Interaction (KAIST CS374) — Spring 2020
  98 students. Evaluation: 4.72/5.00
- Introduction to Research (KAIST CS492), with Sung-Ju Lee & Shin Yoo — Spring 2020
  29 students. Evaluation: 4.90/5.00
- Introduction to Social Computing (KAIST CS473) — Fall 2019
  55 students. Evaluation: 4.64/5.00
- Introduction to Human-Computer Interaction (KAIST CS374) — Spring 2019
  100 students. Evaluation: 4.72/5.00
- Introduction to Research (KAIST CS492), with Sung-Ju Lee & Shin Yoo — Spring 2019
  25 students. Evaluation: 4.69/5.00
- Introduction to Social Computing (KAIST CS473) — Fall 2018
  47 students. Evaluation: 4.83/5.00
- Introduction to Research (KAIST CS492), with Sung-Ju Lee & Shin Yoo — Fall 2018
  29 students. Evaluation: 4.65/5.00
- Computer Science Project (KAIST CS408) — Fall 2018
  11 students, mentored two student teams. Evaluation: 4.00/5.00
- Introduction to Human-Computer Interaction (KAIST CS374) — Spring 2018
  60 students. Evaluation: 4.85/5.00
- Computer Science Project (KAIST CS408) — Spring 2018
  21 students, mentored one student team. Evaluation: 4.53/5.00
- Crowdsourcing & Social Computing (KAIST CS492) — Fall 2017
  29 students. Evaluation: 4.60/5.00
- Introduction to Human-Computer Interaction (KAIST CS374) — Spring 2017

74 students. Evaluation: 4.70/5.00

- School of Computing Colloquium (KAIST CS966/986), with Dongman Lee — Spring 2017
  137 students.
- Crowdsourcing (KAIST CS492) — Fall 2016
  22 students. Evaluation: 4.64/5.00
- User Interface Design (MIT 6.813/6.831), with Robert C. Miller — Spring 2015
  200 students.

Teaching Assistant

- User Interface Design (MIT 6.813/6.831) for Robert C. Miller — Spring 2012
  172 students. TA evaluation: 6.3/7.0

ADVISING & MENTORING

Postdocs

- **Meng Xia** — May 2021–Present

Current Ph.D. Students

- **Sung-Chul Lee** (Co-advising with Jihee Kim) — Aug.2016–Present
- **Seoyoung Kim** — Jul.2017–Present
- **Eunyoung Ko** — Mar.2018–Present
- **Hyungyu Shin** — Mar.2017–Present
- **Hyunwoo Kim** — Aug.2019–Present
- **Yoonjoo Lee** — Sep.2020–Present
- **Yoonseo Choi** — Mar.2019–Present
- **Saelyne Yang** — Mar.2019–Present

Current M.S. Students

- **Tae Soo Kim** — Mar.2020–Present
- **Jeongyeon Kim** — Mar.2020–Present
- **Haesoo Kim (Co-advising with Jeongwoo Jang)** — Mar.2021–Present
- **Jeongeon Park** — Aug.2021–Present

Postdoc Alums

- **Jean Young Song** (Co-hosted with Insik Shin, now at DGIST) — Jan.2020–Jun.2021

Ph.D. Alums

- **Minsuk Chang** (now at Naver AI Labs) — Mar.2016–Feb.2021

M.S. Alums

- **Paul Grau** (M.S. student at KAIST/TU Berlin dual-degree program) — Sep.2016–Aug.2018
- **Hyeungshik Jung** — Mar.2017–Feb.2019
- **Mathias Pedersen** — Mar.2018–Aug.2019
- **Kyung Je Jo** — Mar.2018–Jan.2021
- **Jibon Naher** — Sep.2018–Aug.2020
- **Donghoon Han** (Co-advised with Alice Oh) — Mar.2019–Feb.2021
- **Kabdo Choi** — Mar.2019–Aug.2021

INVITED TALKS

Crowd-Powered Interactive Systems

- Keynote at HCOMP 2021 — Nov. 18, 2021

Designing AI-Powered Interactive Systems, UX of AI

- Samsung Research — Aug. 26, 2021
- National Assembly Library of Korea — Feb. 18, 2021
- Segal Seminar Series, Segal Design Institute, Northwestern University — Feb. 2, 2021
- HCI Korea Webinar Series Lecture — Nov. 13, 2020
- Design for People @ UBC Seminar — Oct. 7, 2020
- LG U+ — Jun. 19, 2020

Interactive, Collaborative, AI-Powered Online Education

- Teacher Training Program, KAIST Global Institute for Talented Education — Jul. 19, 2021
- Guest Lecture at "Understanding AI Education" course at Chung-Ang University — Jun. 1, 2021
- 2020 KAIST Education Innovation Day — Dec. 3, 2020
- Keynote at Learning@Scale 2020 Workshop on AI for Video-based Learning@Scale — Aug. 12, 2020
- Republic of Korea Army — Aug. 3, 2020
- LG Leadership Center — Jul. 7, 2020
- UST Faculty Workshop on Teaching — Nov. 6, 2019

Human-AI Interaction/Collaboration

- Hyundai Card — Sep. 29, 2021
- STEAM Teacher Training Program, KAIST Global Institute for Talented Education — Aug. 10, 2021
- Hanhwa-KAIST Talent Cultivation Program — Aug. 2, 2021
- Hyundai Motor Group — May 25, 2021
- Lecture at KAIST Global Institute for Talented Education — Mar. 27, 2021
- Colloquium at KAIST Software Graduate Program — Mar. 11, 2021
- Pre-URP Lecture at KAIST Global Institute for Talented Education — Jan. 16, 2021
- Colloquium at KAIST Global Institute for Talented Education — Dec. 9, 2020
- Dong-A Business Forum: AI for Business — Dec. 2, 2020
- Software Convergence Symposium 2020 (SWCS2020) — Aug. 20, 2020
- Korea Science and Technology Annual Meeting — Jul. 3, 2020
- National Assembly of Korea — Jun. 4, 2020
- Graduate School of AI, SKKU — Nov. 29, 2019
- Graduate School of Data Science, SNU — Nov. 27, 2019
- KAIST-NAVER Clova AI Workshop — Jun. 19, 2019

Technology for Empathy and Communication

- SBS D Forum (SDF) 2019 — Oct. 31, 2019

Conversational Interaction Design

- Conference on Human & Cognitive Language Technology — Oct. 11, 2019

Introduction to HCI

- Hanhwa-KAIST Talent Cultivation Program — Jul. 29, 2019
- KAIST Youth Scientist Camp — Jan. 12, 2019
- KAIST SoC Camp — Jan. 8, 2019
- Open KAIST — Nov. 3, 2017

Interaction at scale

- POSTECH EE Graduate Seminar — Apr. 26, 2019
- KAIST S&T Biz Colloquium — Apr. 24, 2019
- Korea Computer Graphics Society — Jul. 12, 2018
- Korea Computer Congress, New Faculty Session — Jun. 21, 2018
- KAIST Humanities and Social Sciences Colloquium — Mar. 21, 2018
- CSE Department, Seoul National University — Feb. 6, 2018
- Kyungpook National University — Sep. 22, 2017
- TAICHI 2017 Panel — Aug. 11, 2017
- Civil & Environmental Engineering, Seoul National University — Jun. 9, 2017
- Korean Society for Cognitive Science — May 27, 2017
- Software Graduate Program, KAIST — May 2, 2017
- Freshman Seminar (HSS190), KAIST — Apr. 26, 2017
- Keynote at LG Electronics UX Conference 2016 — Oct 4, 2016

Technology for collective action

- Vanilla Forum, KAIST — Mar. 23, 2017
- Ministry of the Interior, Korean Government — Mar. 17, 2017

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

- TU Berlin — Oct. 15, 2018
- Korea National University of Education — Jul. 31, 2018
- ICLS 2018 Symposium — Jun. 24, 2018
- Industrial and Systems Engineering, KAIST — May 24, 2017
- Education Research Institute, 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

SBS D Forum | 2019.10.31 (Korean)
공감과 소통을 위한 기술
https://www.sdf.or.kr/2019/ko/video/11000009010

SBS 주영진의 뉴스브리핑 | 2019.10.30 (Korean)
'정말 내 생각일까?'...SBS D 포럼, 韓 사회 점검
https://news.sbs.co.kr/news/endPage.do?news_id=N1005501206

ETNews (전자신문) | 2019.08.07 (Korean)
의사결정 돕는 플랫폼 개발…"오늘 뭐 먹지?" 고민 해결
http://www.etnews.com/20190807000154

KAIST Podcast | 2018.09.18
RecipeScape: a new tool enabling users to analyze thousands of recipes for a given dish
https://www.facebook.com/kaistpodcast/photos/a.314177745402011/1130797323740045/?type=3&theater

ETNews (전자신문) | 2018.04.09 (Korean)
KAIST '순차 지식' 정리해 주는 알고리즘 플랫폼 개발
http://www.etnews.com/20180409000376

The KAIST Herald | 2017.10.19
KAIST Rallies Against Slow Internet
http://herald.kaist.ac.kr/news/articleView.html?idxno=1489

EBS DocuPrime | 2017.9.20
4차 산업혁명 시대 교육대혁명: 3부. 대학, 변해야 산다
http://home.ebs.co.kr/docuprime/newReleaseView/345

KAIST Breakthroughs | 2017.09.01
SCAN: Social context-aware smartphone notification system
http://breakthroughs.kaist.ac.kr/?post_no=913

ETNews (전자신문) | 2017.08.08 (Korean)
상황에 따라 스마트폰 알림 조절해주는 앱 나온다...KAIST, 인공지능 활용 SCAN 기술 개발
http://www.etnews.com/20170807000268

ETNews (전자신문) | 2017.07.10 (Korean)
[KAIST AI를 선도한다]<에필로그>KAIST AI 기술 본류는 전산학부
http://www.etnews.com/20170710000276

ETNews (전자신문) | 2017.06.06 (Korean)
AI로 맞춤형 영상콘텐츠 서비스 한다...KAIST, '집단지성' 기반 영상 서비스 기술 개발
http://www.etnews.com/20170605000179

KAIST Times (카이스트신문) | 2017.05.16 (Korean)
사람: 전산학부 김주호 교수
http://times.kaist.ac.kr/news/articleView.html?idxno=3943

ETNews (전자신문) | 2017.05.01 (Korean)
[KAIST AI를 선도한다] AI는 학제 간 연구 가능성 높여 주는 기반 기술
http://m.etnews.com/20170428000285

KAIST Times (카이스트신문) | 2017.03.28 (Korean)
답답한 인터넷 속도, 이번에는 개선될까
http://times.kaist.ac.kr/news/articleView.html?idxno=3885

New Scientist | 2017.03.23
Phone learns to send app notifications only when you want them
https://www.newscientist.com/article/2125669-phone-learns-to-send-app-notifications-only-when-you-want-them/

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-onine-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/

ACADEMIC SERVICES

Demos Co-Chair – CSCW 2022
Subcommittee (Learning, Education, and Families) Co-Chair – CHI 2022
Late-Breaking Work Co-Chair – CHI 2021
Papers Co-Chair – CSCW 2020
Social Media Co-Chair – CHI 2020
SIGCHI Nominating Committee – 2020
Best Papers Co-Chair – CSCW 2019
Publicity Co-Chair – ISS 2019
Organizer – CSCW Asia Winter School 2019-2020
Associate Editor, IEEE TLT 2020–Present
Editor, UX of AI Forum – the ACM Interactions Magazine 2019–Present
Member, SIGCHI Asian Development Committee 2019–2021
Vice President, SIGCHI Korea Chapter 2018–Present
Vice President, HCI Society of Korea 2018–2019
Best Papers Committee – CHI 2018, CSCW 2018
Organizer – Asian CHI Symposium (CHI 2019)
Program Chair – SIGCHI Korea Local Chapter 2018 Spring Academic Workshop
Doctoral Consortium Co-Chair – HCI Korea 2018-2019
Workshop Organizer – Crowdsourcing Law and Policy (CSCW 2017)
Demos Co-Chair – UIST 2017-2018
Head Organizer – KAIST@HCI Seminar Series 2016–2019
Posters Co-Chair – UIST 2015-2016

Webmaster – CHI 2015
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

Program Committee (meta reviewer)
- CHI 2021 (Subcommittee: Learning, Education and Families)
- AAAI 2021 (Senior Program Committee)
- SIGCSE TS 2022
- HCOMP 2020
- CSCW 2019
- Creativity & Cognition 2019
- CHI 2019 (Subcommittee: Learning, Education and Families)
- CHI 2018 (Subcommittee: Special Application Areas)
- CSCW 2018 (online first + second round)
- UIST 2017
- CSCW 2017 (Systems subcommittee)
- Learning at Scale 2015-2017, 2020
- CHI 2015 Works-in-Progress

Program Committee (review only)
- TheWebConf 2022 (Social Web Track)
- Data-Centric AI Workshop @ Neurips 2021
- Collective Intelligence 2019
- Learning at Scale 2018-2019
- Linked Democracy: AI for Democratic Innovation (IJCAI 2017 Workshop)
- HCOMP 2016
- WWW 2016
- IUI 2016
- HCI Korea 2016-2017

Reviewer
- IEEE Vis 2021
- TOCHI
- IMWUT
- CHI 2008-2020
- UIST 2012 & 2014-2020
- CSCW 2008 & 2011-2020
- DIS 2018
- MobileHCI 2014-2016
- SIGGRAPH Asia 2015
- InfoVis 2015

- GI 2015-2016
- ICWSM 2014
- EDM 2014
- HCOMP 2013
- IWIC 2009
- HCI Korea 2018
- Korea Software Congress 2019
- Other Journals: FnT HCI, Interacting with Computers, UMUAI, Journal of Selected Topics in Signal Processing, IJAIED, Entertainment Computing, Journal of the HCI Society of Korea

Recognitions for Outstanding Reviews

- CHI2020
- CHI2019
- CHI2017
- CHI2016 (x2)
- UIST 2016

Departmental / University Committees

- SoC Public Relations Committee Chair 2021–Present
- College of Engineering QAIST Task Force 2021–Present
- College of Engineering Public Relations Committee 2021–Present
- HCI@KAIST Steering Committee 2020–Present
- Head of School Search Committee 2020
- Realtime Interactive Education Program Committee 2019–2020
- IRB Committee 2018–2020
- SoC Public Relations Committee 2016–2020
- SoC Future Planning Committee 2016, 2018-2020