John Joon Young Chung

CONTACT

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RESEARCH INTERESTS

Human-Computer Interaction (HCI), particularly
- Creativity Support Tools
- Human-AI Systems

EDUCATION

University of Michigan   Ann Arbor, MI
Ph.D. candidate in Computer Science and Engineering   SEP. 2018 – Present
Advisor: Eytan Adar, Ph.D.

Seoul National University (SNU)   Seoul, Korea
B.S. in Electrical and Computer Engineering - Summa Cum Laude.   MAR. 2011 – FEB. 2017
Ranked 3rd place from the top among 174 students in own dept.   GPA: 4.12/4.3

HONORS AND AWARDS

Special Recognitions for Outstanding Reviews ACM UIST 2021	2021
Special Recognitions for Outstanding Reviews ACM CHI 2021	2021
Special Recognitions for Outstanding Reviews ACM CHI 2020	2020
2019 UTC Outstanding Student of the Year Award	2020
Honorable Mention Award ACM CSCW 2019	2019
CSE fellowship (for 1 year) University of Michigan	2018
Best Paper Runner-Up Award HCOMP GroupSight 2017	2017
Graduation Award Alumni Association of College of Engineering, SNU	2017
2nd place and a popularity award Information Science and Culture Project Exhibition Awards, SNU	2016
Special Award Anyang Super Rookie Festival	2016
Encouragement Award Writing in Science & Technology Research Competition, SNU	2015
National Scholarship for Science and Engineering (4 years)	2011 - 2017

RESEARCH EXPERIENCE

Naver AI Lab   Seongnam, Korea
Research Intern   MAY. 2021 – SEP. 2021
Mentor: Minsuk Chang
- Sketching-based control of story generation system (CHI'22)

Adobe Research   Seongnam, Korea
Research Intern at Creative Intelligence Lab   MAY. 2020 – AUG. 2020
Mentor: Rubaiat Habib
- Live streaming system to enable visual communication from many viewers to a streamer (CHI'21)

University of Michigan   Ann Arbor, MI
Research Assistant   SEP. 2018 – Present
- Web comics colorization system (CHI'22)
- Literature survey on creativity support tools (DIS'21)
- Peer assessment system for programming classes (CSCW'21)
- Crowdsourcing system for estimating 3D object pose from 2D image (CSCW'20)

Kixlab, KAIST   Daejeon, Korea
Full-time Researcher   AP. 2017 – JUL. 2018
Mentor: Juho Kim
- Efficient Annotation of Answer Distribution for Ambiguous Data (CSCW'19)
Below are the results of later collaborations:
- Scalable generaation of scaffolding prompts (CHI'22)
- Usage patterns on "Study With Me" videos (CHI'21)

Data Science Laboratory, SNU	Seoul, Korea
Graduation Project	JAN. 2016 – JUN. 2016

- Classifier identifying musical instruments in audio files

PUBLICATIONS

Referred Publications (5×CHI, 3×CSCW, 1×DIS)

1. **TaleBrush: Sketching Stories with Generative Pretrained Language Models**
   John Joon Young Chung, Wooseok Kim, Kang Min Yoo, Hwaran Lee, Eytan Adar, and Minsuk Chang. In *Proceedings of CHI 2022: ACM Conference on Human Factors in Computing Systems* (Accepted with minor revision, acceptance rate: 12.5%).

2. **Promptiverse: Scalable Generation of Scaffolding Prompts through Human-AI Knowledge Graph Annotation**
   Yoonjoo Lee, **John Joon Young Chung**, Taesoo Kim, Jean Y. Song, Juho Kim. In *Proceedings of CHI 2022: ACM Conference on Human Factors in Computing Systems* (Accepted with minor revision, acceptance rate: 12.5%).

3. **FlatMagic: Improving Webcomic Flat Colorization through AI-driven Design for Professionals**
   Chuan Yan, **John Joon Young Chung**, Kiheon Yoon, Yotam Gingold, Eytan Adar, Sungsoo Ray Hong. In *Proceedings of CHI 2022: ACM Conference on Human Factors in Computing Systems* (Accepted with minor revision, acceptance rate: 12.5%).

4. **PuzzleMe: Leveraging Peer Assessment for In-Class Programming Exercises**
   April Wang, Yan Chen, **John Joon Young Chung**, Christopher Brooks, Steve Oney. In *Proceedings of the ACM on Human-Computer Interaction - CSCW2021*.

5. **The Intersection of Users, Roles, Interactions, and Technologies in Creativity Support Tools**
   John Joon Young Chung, Shiqing He, Eytan Adar. In *Proceedings of DIS 2021: ACM Conference on Designing Interactive Systems* (acceptance rate: 27.7%).

6. **Beyond Show of Hands: Engaging Viewers via Expressive and Scalable Visual Communication in Live Streaming**
   John Joon Young Chung, Hijung Valentina Shin, Haijun Xia, Li-Yi Wei, and Rubaiat Habib Kazi. In *Proceedings of CHI 2021: ACM Conference on Human Factors in Computing Systems* (acceptance rate: 26.3%).

7. **Personalizing Ambience and Illusionary Presence: How People Use "Study with Me" Videos to Create Effective Studying Environments**
   Yoonjoo Lee, **John Joon Young Chung**, Jean Y. Song, Minsuk Chang, Juho Kim. In *Proceedings of CHI 2021: ACM Conference on Human Factors in Computing Systems* (acceptance rate: 26.3%).

8. **C-Reference: Improving 2D to 3D Object Pose Estimation Accuracy via Crowdsourced Joint Object Estimation**
   Jean Y. Song, **John Joon Young Chung**, David F. Fouhey, and Walter S. Lasecki. In *Proceedings of the ACM on Human-Computer Interaction - CSCW2020*.

9. **Efficient Elicitation Approaches to Estimate Collective Crowd Answers**
   John Joon Young Chung, Jean Y. Song, Sindhu Kutty, Sungsoo Hong, Juho Kim, and Walter S. Lasecki. In *Proceedings of the ACM on Human-Computer Interaction - CSCW2019* (acceptance rate: 31%).
   Honorable Mention Award (top 5%)

Extended Abstracts: Posters, Workshops, and Demos

1. **Towards Instantaneous Recovery From Autonomous System Failures via Predictive Crowdsourcing**
   John Joon Young Chung, Fuhu Xiao, Nikola Banovic, Walter S. Lasecki. In *Adjunct Publication of UIST 2019: ACM Symposium on User Interface Software and Technology* (Poster).

2. **Accident Prevention with Predictive Instantaneous Crowdsourcing**
   John Joon Young Chung, Fuhu Xiao, Nicholas Recker, Kammeran Barnes, Nikola Banovic, Walter S. Lasecki. *CHI 2019 Workshop on "Looking into the Future: Weaving the Threads of Vehicle Automa-*

tion". (Workshop).

3. **Exprgram: A Language Learning Interface for Mastering Pragmatic Competence**
Kyung Je Jo, **John Joon Young Chung**, Juho Kim. In *Extended Abstracts of CHI 2018: ACM Conference on Human Factors in Computing Systems.* (Poster).

4. **Collaborative Crowdsourcing Between Experts and Crowds for Chronological Ordering of Narrative Events**
John Joon Young Chung, Joseph Jay Williams, Juho Kim. *HCI Korea 2018.* (Poster).

5. **Exprgram: A Video-based Language Learning Interface Powered by Learnersourced Video Annotations**
Kyung Je Jo, **John Joon Young Chung**, Juho Kim. *HCOMP 2017 GroupSight.* (Workshop).
Best Paper Runner-Up Award

INVITED TALKS	**AI-powered Creativity Support Tools for Art-making** KAIST CS374 Intro to HCI	JUN., 2021

PRESS COVERAGE	**UM professor combines human, artificial intelligence to make autonomous vehicles safer** Michigan Radio MAR., 2019	

TEACHING EXPERIENCE	**Teaching Assistant** Human-Computer Interaction (UMich EECS598-002)	Fall 2020

ACADEMIC
SERVICES

Reviewer
ACM CHI'20-22
ACM CHI LBW'20-22
ACM UIST'20-21
ACM CSCW'18,20-22
ACM DIS'21
ACM IUI'21
ACM Creativity&Cognition'21
ACM MobileHCI'20
IEEE VL/HCC'21
ACM WebConf'20

Organizing Committee
SIGCHI Korea Local Chapter'18 Local Co-chair

Student Volunteer
ACM CSCW'20
ACM DIS'21