John Joon Young Chung

CONTACT

Ph.D. Candidate
Computer Science and Engineering, University of Michigan
Email: jjyc@umich.edu — 2260 Hayward St, Ann Arbor, MI 48109
URL: http://johnr0.github.io — MI 48109, United States

RESEARCH INTERESTS

Human-Computer Interaction (HCI), particularly, **AI-powered Creativity Support Tools for art-making, that are controllable and adaptable to the user's values.**

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

Adobe Research — Seattle, WA
Research Intern at Creative Intelligence Lab — MAY. 2020 – AUG. 2020
Mentor: Rubaiat Habib

University of Michigan — Ann Arbor, MI
Research Assistant — SEP. 2018 – Present

Kixlab, KAIST — Daejeon, Korea
Full-time Researcher — AP. 2017 – JUL. 2018
Mentor: Juho Kim

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

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 Automation"*. (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'20-21
ACM UIST'20-21
ACM CSCW'18,20-22
ACM DIS'21
ACM IUI'22
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