

# John Joon Young Chung

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RESEARCH INTERESTS	Human-Computer Interaction (HCI), particularly, <b>AI-powered Creativity Support Tools for art-making, that are controllable and adaptable to the user's values.</b>	
EDUCATION	<b>University of Michigan</b> Ph.D. candidate in Computer Science and Engineering <i>Advisor:</i> Eytan Adar, Ph.D.	Ann Arbor, MI SEP. 2018 – Present
	<b>Seoul National University (SNU)</b> B.S. in Electrical and Computer Engineering - Summa Cum Laude. Ranked 3rd place from the top among 174 students in own dept.	Seoul, Korea MAR. 2011 – FEB. 2017 GPA: 4.12/4.3
HONORS AND AWARDS	<b>Special Recognitions for Outstanding Reviews</b> ACM Creativity&Cognition 2022 <b>Special Recognitions for Outstanding Reviews</b> ACM UIST 2021 <b>Special Recognitions for Outstanding Reviews</b> ACM CHI 2021 <b>Special Recognitions for Outstanding Reviews</b> ACM CHI 2020 <b>2019 UTC Outstanding Student of the Year Award</b> <b>Honorable Mention Award</b> ACM CSCW 2019 <b>CSE fellowship (for 1 year)</b> University of Michigan <b>Best Paper Runner-Up Award</b> HCOMP GroupSight 2017 <b>Graduation Award</b> Alumni Association of College of Engineering, SNU <b>2nd place and a popularity award</b> Information Science and Culture Project Exhibition Awards, SNU <b>Special Award</b> Anyang Super Rookie Festival <b>Encouragement Award</b> Writing in Science & Technology Research Competition, SNU <b>National Scholarship for Science and Engineering (4 years)</b>	2022 2021 2021 2020 2020 2019 2018 2017 2017 2016 2016 2015 2011 - 2017
RESEARCH EXPERIENCE	<b>Naver AI Lab</b> Research Intern Mentor: Minsuk Chang  <b>Adobe Research</b> Research Intern at Creative Intelligence Lab Mentor: Rubaiat Habib  <b>University of Michigan</b> Graduate Student and Researcher  <b>Kixlab, KAIST</b> Full-time Researcher Mentor: Juho Kim  <b>Data Science Laboratory, SNU</b> Graduation Project	Seongnam, Korea MAY. 2021 – SEP. 2021  Seattle, WA MAY. 2020 – AUG. 2020  Ann Arbor, MI SEP. 2018 – Present  Daejeon, Korea AP. 2017 – JUL. 2018  Seoul, Korea JAN. 2016 – JUN. 2016
PUBLICATIONS	<b>Referred Publications</b> (5×CHI, 3×CSCW, 1×DIS) <ol style="list-style-type: none"><li><b>Artist Support Networks: Implications for Future Creativity Support Tools</b> <b>John Joon Young Chung</b>, Shiqing He, Eytan Adar. In <i>Proceedings of DIS 2022: ACM Conference on Designing Interactive Systems</i> (To Appear, Conditionally Accepted, acceptance rate: 21.5%).</li><li><b>TaleBrush: Sketching Stories with Generative Pretrained Language Models</b> <b>John Joon Young Chung</b>, Wooseok Kim, Kang Min Yoo, Hwaran Lee, Eytan Adar, and Minsuk</li></ol>	

Chang. In *Proceedings of CHI 2022: ACM Conference on Human Factors in Computing Systems* (Accepted with minor revision, acceptance rate: 12.5%).

3. **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%).
  4. **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%).
  5. **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*.
  6. **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%).
  7. **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%).
  8. **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%).
  9. **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*.
  10. **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. **TaleBrush: Visual Sketching of Story Generation with Pretrained Language Models**  
**John Joon Young Chung**, Wooseok Kim, Kang Min Yoo, Hwaran Lee, Eytan, Adar, and Minsuk Chang. In *Interactivity of CHI 2022: ACM Conference on Human Factors in Computing Systems* (Demo).
2. **Gestural Inputs as Control Interaction for Generative Human-AI Co-Creation**  
**John Joon Young Chung**, Minsuk Chang, and Eytan Adar. In *3rd Workshop on Human-AI Co-Creation with Generative Models at IUI 2022* (Workshop).
3. **Towards Instantaneous Recovery From Autonomous System Failures via Predictive Crowdsourcing**  
**John Joon Young Chung**, Fuhu Xiao, Nikola Banovic, and Walter S. Lasecki. In *Adjunct Publication of UIST 2019: ACM Symposium on User Interface Software and Technology* (Poster).
4. **Accident Prevention with Predictive Instantaneous Crowdsourcing**  
**John Joon Young Chung**, Fuhu Xiao, Nicholas Recker, Kammeran Barnes, Nikola Banovic, and Walter S. Lasecki. *CHI 2019 Workshop on “Looking into the Future: Weaving the Threads of Vehicle*

*Automation*". (Workshop).

5. **Exprgram: A Language Learning Interface for Mastering Pragmatic Competence**  
Kyung Je Jo, **John Joon Young Chung**, and Juho Kim. In *Extended Abstracts of CHI 2018: ACM Conference on Human Factors in Computing Systems*. (Poster).
6. **Collaborative Crowdsourcing Between Experts and Crowds for Chronological Ordering of Narrative Events**  
**John Joon Young Chung**, Joseph Jay Williams, and Juho Kim. *HCI Korea 2018*. (Poster).
7. **Exprgram: A Video-based Language Learning Interface Powered by Learnersourced Video Annotations**  
Kyung Je Jo, **John Joon Young Chung**, and Juho Kim. *HCOMP 2017 GroupSight*. (Workshop).  
**Best Paper Runner-Up Award**

INVITED TALKS	<b>AI-powered Creativity Support Tools for Art-making</b> KAIST CS374 Intro to HCI	JUN., 2021
PRESS COVERAGE	<b>UM professor combines human, artificial intelligence to make autonomous vehicles safer</b> Michigan Radio	MAR., 2019
TEACHING EXPERIENCE	<b>Teaching Assistant</b> Human-AI Interaction and Systems (UMich EECS598-003 with Anhong Guo) Human-Computer Interaction (UMich EECS598-002 with Nikola Banovic)	Winter 2022 Fall 2020
ACADEMIC SERVICES	<b>Reviewer</b> ACM CHI'20-22 ACM CHI LBW'20-22 ACM UIST'20-21 ACM CSCW'18,20-22 ACM DIS'21-22 ACM IUT'22 ACM Creativity&Cognition'21-22 ACM MobileHCI'20 IEEE VL/HCC'21 ACM WebConf'20  <b>Organizing Committee</b> ACM UIST'22 Program Technology Chair <b>The First Workshop on Intelligent and Interactive Writing Assistants at ACL2022</b> Organizer <b>SIGCHI Korea Local Chapter'18</b> Local Co-chair  <b>Student Volunteer</b> ACM CSCW'20 ACM DIS'21 ACM IUT'22	