

John Joon Young Chung

POSITION & CONTACT	Research Scientist @ Midjourney (Starting September) Email: jjyc@umich.edu Website: http://johnr0.github.io		
RESEARCH INTERESTS	Human-Computer Interaction (HCI)+AI/ML, particularly, AI-powered Creativity Support Tools for art-making and storytelling.		
PREVIOUS EXPERIENCE	SpaceCraft	Los Angeles, CA	
	Research Engineer	FEB. 2023 – AUG. 2023	
	Microsoft Research	Redmond, WA	
	Research Intern	MAY. 2022 – AUG. 2022	
	Mentor: Saleema Amershi and Ece Kamar		
	Naver AI Lab	Seongnam, Korea	
	Research Intern	MAY. 2021 – SEP. 2021	
EDUCATION	Adobe Research	Seattle, WA	
	Research Intern at Creative Intelligence Lab	MAY. 2020 – AUG. 2020	
	Mentor: Rubaiat Habib		
	Kixlab, KAIST	Daejeon, Korea	
	Full-time Researcher	AP. 2017 – JUL. 2018	
	Mentor: Juho Kim		
	University of Michigan	Ann Arbor, MI	
HONORS AND AWARDS	Ph.D. in Computer Science and Engineering	SEP. 2018 – JAN. 2023	
	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	
	2019 UTC Outstanding Student of the Year Award	2020	
	Honorable Mention Award ACM CSCW 2019	2019	
PUBLICATIONS	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	
PUBLICATIONS	Published		
	1. PromptPaint: Steering Text-to-Image Generation Through Paint Medium-like Interactions John Joon Young Chung , Eytan Adar. In <i>Proceeding of UIST 2023: The ACM Symposium on User Interface Software and Technology</i> .		
	2. Neglected Free Lunch – Learning Image Classifiers Using Annotation Byproducts Dongyoon Han, Junsuk Choe, Seonghyeok Chun, John Joon Young Chung , Minsuk Chang, Sangdooyun, Jean Y. Song, Seong Joon Oh. In <i>International Conference on Computer Vision - ICCV 2023</i> .		
	3. Leveraging Double-edged Sword: Diversified and Accurate Text Data Generation with Language Models and Human Interventions John Joon Young Chung , Ece Kamar, Saleema Amershi. In <i>the 61st Annual Meeting of the Association for Computational Linguistics - ACL 2023</i> (acceptance rate: 22%).		

4. **Artinter: AI-powered Boundary Objects for Commissioning Visual Arts**
John Joon Young Chung, Eytan Adar. In *Proceedings of DIS 2023: ACM Conference on Designing Interactive Systems* (acceptance rate: 24%).
5. **Artist Support Networks: Implications for Future Creativity Support Tools**
John Joon Young Chung, Shiqing He, Eytan Adar. In *Proceedings of DIS 2022: ACM Conference on Designing Interactive Systems* (acceptance rate: 21.5%).
6. **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%).
7. **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%).
8. **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%).
9. **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 - CSCW 2021*.
10. **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%).
11. **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%).
12. **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%).
13. **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*.
14. **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%)

Arxiv preprint

1. **viz2viz: Prompt-driven Stylized Visualization Generation using a Diffusion Model**
Jiaqi Wu, John Joon Young Chung, Eytan Adar.

Doctoral Symposium

1. **Artistic User Expressions in AI-powered Creativity Support Tools**
John Joon Young Chung. In *Adjunct Publication of UIST 2022: ACM Symposium on User Interface*

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 UII 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

Magazine Articles

1. **Designing AI-powered Art-making Tools**
John Joon Young Chung. In *XRDS: Crossroads, The ACM Magazine for Students*, Summer, 2023
2. **문학과 인공지능 - 작가와 독자 간 매개로서의 역할에 대한 기대 (Literature and AI - Expecting Roles of Bridging Writers and Readers)**
John Joon Young Chung, Taewook Kim. In *시인수첩 (계간): 여름호 2023년 (The Poet's Notebook (A Quarterly Journal): Summer, 2023)*.

INVITED TALKS

TaleBrush: Sketching Stories with Generative Pretrained Language Models SNU AI773 Special Topics in Artificial Intelligence - Deep Learning and Real-world Applications JUN., 2022
Artistic User Expressions in AI-powered Creativity Support Tools UNIST CSE333 Intro to HCI JUN., 2022
TaleBrush: Sketching Stories with Generative Pretrained Language Models KAIST AI599 Special Topics in Machine Learning : Deep Learning and Real-world Applications JUN., 2022
AI-powered Creativity Support Tools for Art-making KAIST CS374 Intro to HCI JUN., 2021

PRESS COVERAGE

Summer 2022 aiXdesign Asian POV (Asian Point of View) aiXdesign DEC., 2022
作家とAIが小を共作できるツル主人公の化する運勢を“手書きグラフ”で操作 AIが物語文を作成 (A tool that allows writers and AI to co-create novels. Manipulate the changing fortunes of the protagonist with "handwritten graphs", and AI creates narrative sentences.) ITmedia NEWS JUN., 2022
UM professor combines human, artificial intelligence to make autonomous vehicles safer Michigan Radio MAR., 2019

TEACHING EXPERIENCE

Teaching Assistant

	Human-AI Interaction and Systems (UMich EECS598-003 with Anhong Guo)	Winter 2022
	Human-Computer Interaction (UMich EECS598-002 with Nikola Banovic)	Fall 2020
ACADEMIC SERVICES	Organizing Committee ACM C&C'23-24 Registration Chair The Second Workshop on Intelligent and Interactive Writing Assistants at CHI2023 Organizer ACM UIST'22 Program Technology Chair The First Workshop on Intelligent and Interactive Writing Assistants at ACL2022 Organizer SIGCHI Korea Local Chapter'18 Local Co-chair Reviewer ACM CHI'20-23 (Outstanding Review × 3) ACM CHI LBW'20-23 ACM UIST'20-23 (Outstanding Review × 1) ACM CSCW'18,20-23 ACM DIS'21-23 ACM IUT'22-23 (Outstanding Review × 2) ACM Creativity&Cognition'21-22 (Outstanding Review × 1) ACM IMWUT'22 ACM MobileHCI'20 IEEE VIS'23 (Outstanding Review × 1) IEEE VL/HCC'21 (Outstanding Review × 1) ACM WebConf'20 Student Volunteer ACM CSCW'20 ACM DIS'21-22 ACM IUT'22	
Music	Hothead Single — Liberalia (Band) 영원한 봄 (Eternal Spring) Full length — Solo project Crave Single — Liberalia (Band) Reign Over Single — Liberalia (Band)	2022 2022 2018 2016