

John Joon Young Chung

POSITION & CONTACT	Research Scientist @ Midjourney Storytelling Lab Email: jchung@midjourney.com Website: https://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	
EDUCATION	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		
	Kixlab, KAIST	Daejeon, Korea	
HONORS AND AWARDS	Full-time Researcher	AP. 2017 – JUL. 2018	
	Mentor: Juho Kim		
	University of Michigan	Ann Arbor, MI	
	Ph.D. in Computer Science and Engineering	SEP. 2018 – JAN. 2023	
	Advisor: Eytan Adar, Ph.D.		
	Seoul National University (SNU)	Seoul, Korea	
PRODUCTS	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	
	Honorable Mention Award ACM CHI 2024	2024	
	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	
PUBLICATIONS	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	
PRODUCTS	Patchwork @Midjourney	2024-	
PUBLICATIONS	Published		
	1. Fuzzy Linkography: Automatic Graphical Summarization of Creative Activity Traces Amy Smith, Barret R. Anderson, Jasmine Tan Otto, Isaac Karth, Yuqian Sun, John Joon Young Chng , Melissa Roemmele, Max Kreminski. In <i>Proceedings of C&C 2025: ACM Creativity and Cognition</i> (acceptance rate: 21.8%).		
	2. Toyteller: AI-powered Visual Storytelling Through Toy-Playing with Character Symbols John Joon Young Chng , Melissa Roemmele, Max Kreminski. In <i>Proceedings of CHI 2025: ACM Conference on Human Factors in Computing Systems</i> (acceptance rate: 25.1%).		

3. **Patchview: LLM-powered Worldbuilding with Generative Dust and Magnet Visualization**
John Joon Young Chung, Max Kreminski. In *Proceeding of UIST 2024: The ACM Symposium on User Interface Software and Technology* (acceptance rate: 24.0%).
4. **ComicShadow: Improving Shadowing Process through AI-driven Design for Digital Comic Professionals**
 Amrita Ganguly, Chuan Yan, **John Joon Young Chung**, Tong Steven Sun, Yoon Kiheon, Yotam Ginkgold, Sungsoo Ray Hong. In *Proceeding of UIST 2024: The ACM Symposium on User Interface Software and Technology* (acceptance rate: 24.0%).
5. **One vs. Many: Comprehending Accurate Information from Multiple Erroneous and Inconsistent AI Generations**
 Yoonjoo Lee, Kihoon Son, Tae Soo Kim, Jisu Kim, **John Joon Young Chung**, Eytan Adar, Juho Kim. In *Proceedings of FAccT 2024: ACM Conference on Fairness, Accountability, and Transparency*.
6. **Authors' Values and Attitudes Towards AI-bridged Scalable Personalization of Creative Language Arts**
 Taewook Kim, Hyomin Han, Eytan Adar, Matthew Kay, **John Joon Young Chung**. In *Proceedings of CHI 2024: ACM Conference on Human Factors in Computing Systems* (acceptance rate: 26.3%).
Honorable Mention Award (top 5%)
7. **A Design Space for Intelligent and Interactive Writing Assistants**
 Mina Lee, Katy Ilonka Gero, **John Joon Young Chung**, Simon Buckingham Shum, Vipul Raheja, Hua Shen, Subhashini Venugopalan, Thiemo Wambsganss, David Zhou, Emad A. Alghamdi, Tal August, Avinash Bhat, Madiha Zahrah Choksi, Senjuti Dutta, Jin L.C. Guo, Md Naimul Hoque, Yewon Kim, Simon Knight, Seyed Parsa Neshaei, Antonette Shibani, Disha Shrivastava, Lila Shroff, Agnia Sergeyuk, Jessi Stark, Sarah Sterman, Sitong Wang, Antoine Bosselut, Daniel Buschek, Joseph Chee Chang, Sherol Chen, Max Kreminski, Joonsuk Park, Roy Pea, Eugenia Ha Rim Rho, Zejiang Shen, Pao Siangliulue. In *Proceedings of CHI 2024: ACM Conference on Human Factors in Computing Systems* (acceptance rate: 26.3%).
8. **CreativeConnect: Supporting Reference Recombination for Graphic Design Ideation with Generative AI**
 DaEun Choi, Sumin Hong, Jeongeon Park, **John Joon Young Chung**, Juho Kim. In *Proceedings of CHI 2024: ACM Conference on Human Factors in Computing Systems* (acceptance rate: 26.3%).
9. **Find the Bot!: Gamifying Facial Emotion Recognition for Both Human Training and Machine Learning Data Collection**
 Yeonsun Yang, Ahyeon Shin, Nayoung Kim, Huidam Woo, **John Joon Young Chung**, Jean Y. Song. In *Proceedings of CHI 2024: ACM Conference on Human Factors in Computing Systems* (acceptance rate: 26.3%).
10. **PromptPaint: Steering Text-to-Image Generation Through Paint Medium-like Interactions**
John Joon Young Chung, Eytan Adar. In *Proceeding of UIST 2023: The ACM Symposium on User Interface Software and Technology* (acceptance rate: 25.1%).
11. **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 *International Conference on Computer Vision - ICCV 2023* (acceptance rate: 26.2%).
12. **Increasing Diversity While Maintaining Accuracy: Text Data Generation with Large Language Models and Human Interventions**
John Joon Young Chung, Ece Kamar, Saleema Amershi. In *the 61st Annual Meeting of the Association for Computational Linguistics - ACL 2023* (acceptance rate: 22%).
13. **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%).
14. **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%).

15. **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%).
16. **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%).
17. **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%).
18. **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*.
19. **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%).
20. **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%).
21. **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%).
22. **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*.
23. **Efficient Elicitation Approaches to Estimate Collective Crowd Answers**
John Joon Young Chung, Jean Y. Song, Sindhu Kuttu, 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 Software and Technology*.

Extended Abstracts: Posters, Workshops, and Demos

1. **Toy teller: Toy-Playing with Character Symbols for AI-Powered Visual Storytelling**
John Joon Young Chung, Melissa Roemmele, Max Kreminski. In *Adjunct Proceedings of the 37th*

Annual ACM Symposium on User Interface Software and Technology (Demo).

2. **Intent Elicitation in Mixed-Initiative Co-Creativity**
Max Kreminski, **John Joon Young Chung**. In *5th Workshop on Human-AI Co-Creation with Generative Models at UI 2024 (Workshop)*.
3. **DeckFlow: A Card Game Interface for Exploring Generative Model Flows**
Gregory Thomas Croisdale, **John Joon Young Chung**, Emily Huang, Gage Birchmeier, Xu Wang, Anhong Guo. In *Adjunct Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology (Demo)*.
4. **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)*.
5. **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 UI 2022 (Workshop)*.
6. **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)*.
7. **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).
8. **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).
9. **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).
10. **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

Breadth of Midjourney	Midjourney User Meetup in South Korea	MAR. 2025
Rethinking AI and Storytelling: Interactions, Technologies, and Media	Seoul National University AI / Computing Frontier School	JAN. 2025
Learned from Struggles: From Ph.Ding in the US to Job Search	Next Career Conference	DEC. 2024
New Creation Interactions with AI	Busan International AI Film Festival	DEC. 2024
New Creation Interactions with AI	Yonsei University	NOV. 2024
New Creation Interactions with AI	Kookmin University	OCT. 2024
New Creation Interactions with AI	ZEN AI Online Conference	SEP. 2024
New Creation Interactions with AI	SIGCHI Korea Local Chapter	JULY. 2024

	New Creation Interactions with AI Seoul National University	JUN. 2024
	AI+Creation New Interaction and Media Hanyang University	APR. 2024
	AI-powered Novel Interactions for Creative Writing KAIROS - 2024 Gen AI Meet Up	MAR., 2024
	AI-powered Novel Interactions for Creative Writing Gen AI Seoul 2024	FEB., 2024
	AI-powered Novel Interactions and Media for Creative Writing Fast Campus Gen Con: Super Human Powered by AI	JAN., 2024
	AI-powered Novel Creative Writing Interactions and Media Kyungil University	NOV., 2023
	AI-powered Novel Interactions and Media for Creative Writing KAIST CS492G Human-AI Interaction	NOV., 2023
	LLM-powered Novel Writing Interactions and Media Penn State University IST597-001 Intelligent and Interactive Writing	OCT., 2023
	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) Human-Computer Interaction (UMich EECS598-002 with Nikola Banovic)	Winter 2022 Fall 2020
ACADEMIC SERVICES	Organizing Committee The Fourth Workshop on Intelligent and Interactive Writing Assistants at NAACL2025 Organizer The Third Workshop on Intelligent and Interactive Writing Assistants at CHI2024 Organizer 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'20-25 (Outstanding Review × 6) ACM CHI LBW'20-23 ACM UIST'20-24 (Outstanding Review × 3) ACM CSCW'18, 20-25 ACM DIS'21-25 (Outstanding Review × 2) ACM IUT'22-25 (Outstanding Review × 5) ACM Creativity&Cognition'21-22, 24-25 (Outstanding Review × 1) ACM IMWUT'22 ACM MobileHCI'20 ACM WebConf'20 IEEE VIS'23 (Outstanding Review × 1) IEEE VL/HCC'21 (Outstanding Review × 1) ACL'25 Student Volunteer ACM CSCW'20 ACM DIS'21-22	

ACM IUT'22

Music

Hothead Single — Liberalia (Band)	2022
영원한 봄 (Eternal Spring) Full length — Solo project	2022
Crave Single — Liberalia (Band)	2018
Reign Over Single — Liberalia (Band)	2016