

Hyeonsu Buttweiler Kang

Email: hyeonsuk@cs.cmu.edu · Website: www.hyeonsukang.com · Updated: September 21, 2022

EDUCATION	Carnegie Mellon University , Pittsburgh, PA Human-Computer Interaction Institute, School of Computer Science Ph.D. in Human-Computer Interaction Advisor: Dr. Aniket Kittur	08/2018 – PRESENT
	University of California, San Diego , La Jolla, CA Master of Science in Computer Science Advisors: Dr. Steven Dow and Dr. Philip Guo	06/2017
	Seoul National University , Seoul, South Korea Bachelor of Science in Computer Science and Engineering	02/2015
AWARDS AND HONORS	Google Cloud Research Innovators	MARCH 2021
	National Academic Excellence Scholarship (Science and Engineering)	SPRING 2009
EMPLOYMENT	Allen Institute for AI , Remote <i>Research Scientist Intern</i> , Semantic Scholar Hosts: Dr. Jonathan Bragg, Dr. Joseph Chang	05/2022 – 08/2022 [S.1]
	Allen Institute for AI , Remote <i>Research Scientist Intern</i> , Semantic Scholar Hosts: Dr. Jonathan Bragg, Dr. Doug Downey, Dr. Daniel Weld	05/2021 – 08/2021 [C.2]
	Massachusetts Institute of Technology , Cambridge, MA <i>Research Engineer</i> , Advisor: Dr. Eric Klopfer	10/2017 – 7/2018 [W.3]
	University of California, San Diego , La Jolla, CA <i>Staff Research Associate</i> , ProtoLab. Advisor: Dr. Steven Dow	06/2017 – 09/2017 [C.4]
	University of California, San Diego , La Jolla, CA <i>Graduate Research Assistant</i> . Advisor: Dr. Philip Guo	12/2016 – 03/2017 [C.5]
	Tableau Software , Seattle, WA <i>Software Engineer Intern</i> Developed a prototype tooltip visualization feature and its programming language for Tableau Desktop. Analyzed ~660,000 Tableau Public workbooks' source code to justify design choices and analyze backward compatibility of the feature	06/2016 – 09/2016
	PUBLICATIONS	IN SUBMISSION [S.1] <i>In Submission at CHI'23.</i>
	JOURNAL PAPERS [J.1] Kang, Hyeonsu B. , Qian, Xin, Hope, Tom, Shahaf, Dafna, Chan, Joel, and Kittur, Aniket Augmenting Scientific Creativity with an Analogical Search Engine. <i>ACM Trans. Comput.-Hum. Interact. (TOCHI)</i> (Mar. 2022). doi: 10.1145/3530013.	
	REFEREED CONFERENCE PROCEEDINGS PAPERS	

- [C.1] **Kang, Hyeonsu B.**, Chang, Joseph Chee, Kim, Yongsung, and Kittur, Aniket Threddy: An Interactive System for Personalized Thread-based Exploration and Organization of Scientific Literature. *The 35th Annual ACM Symposium on User Interface Software and Technology*.
UIST'22. Bend, OR, USA, Oct. 2022. doi: 10.48550/arxiv.2208.03455.
- [C.2] **Kang, Hyeonsu B.**, Kocielnik, Rafal, Head, Andrew, Yang, Jiangjiang, Latzke, Matt, Kittur, Aniket, Weld, Daniel, Downey, Doug, and Bragg, Jonathan. From Who You Know to What You Read: Augmenting Scientific Recommendations with Implicit Social Networks. *Proceedings of the ACM Conference on Human Factors in Computing Systems*.
CHI'22. New Orleans, LA, USA, Apr. 2022. doi: 10.1145/3491102.3517470.
- [C.3] Hope, Tom, Tamari, Ronen, Hershcovich, Daniel, **Kang, Hyeonsu B.**, Chan, Joel, Kittur, Aniket, and Shahaf, Dafna Scaling Creative Inspiration with Fine-Grained Functional Aspects of Ideas. *Proceedings of the ACM Conference on Human Factors in Computing Systems*.
CHI'22. New Orleans, LA, USA, Apr. 2022. doi: 10.1145/3491102.3517434.
- [C.4] **Kang, Hyeonsu B.**, Amoako, Gabriel, Sengupta, Neil, and Dow, Steven P. Paragon: An Online Gallery for Enhancing Design Feedback with Visual Examples. *Proceedings of the ACM Conference on Human Factors in Computing Systems*.
CHI'18. Montreal QC, Canada, Apr. 2018, pp. 1–13. doi: 10.1145/3173574.3174180.
- [C.5] **Kang, Hyeonsu** and Guo, Philip J. Omnicode: A Novice-Oriented Live Programming Environment with Always-On Run-Time Value Visualizations. *Proceedings of the ACM Symposium on User Interface Software and Technology*.
UIST'17. Québec City, QC, Canada, Oct. 2017, pp. 737–745. doi: 10.1145/3126594.3126632.

LIGHTLY REFEREED WORKSHOP PAPERS

- [W.1] **Kang, Hyeonsu B.***, Mysore, Sheshera*, Huang, Kevin J*, Chang, Haw-Shiuan, Prein, Thorben, McCallum, Andrew, Kittur, Niki, and Olivetti, Elsa. Augmenting Scientific Creativity with Retrieval across Knowledge Domains. *NAACL 2022: Second Workshop on Bridging Human-Computer Interaction and Natural Language Processing*. (* denotes equal contribution). doi: 10.48550/arxiv.2206.01328.
- [W.2] **Kang, Hyeonsu B.**, Ng, Felicia, and Kittur, Aniket. Matching Open Innovation Projects for Analogical Feedback Exchange. *Collective Intelligence 2019*.
- [W.3] **Kang, Hyeonsu**, Wu, David, and Wendel, David. Custom Blocks in StarLogo Nova: A Template-Based Approach to Abstraction for Improved Ease of Use and Expressive Power. *SIGPLAN 2018: BLOCKS+ Workshop at ACM SIGPLAN conference on Systems, Programming, Languages and Applications: Software for Humanity*.

GRANTS

Google Cloud Platform Credits, \$15,000	05/2021
Google Cloud Platform Credits, \$5,000	10/2020
Google Cloud Platform Credits, \$50,000	09/2019

TEACHING

<i>Co-Instructor. Weekly Recitation of 05610: User Centered Research & Evaluation</i>	
School of Computer Science, Carnegie Mellon University	SPRING 2022
<i>Co-Instructor. Weekly Recitation of 05630: Programming Usable Interfaces.</i>	
School of Computer Science, Carnegie Mellon University	FALL 2020

<i>Teaching Assistant. DSGN100: Prototyping</i>		
University of California, San Diego		SPRING 2017
<i>Teaching Assistant. COGS120: Human-Computer Interaction Design.</i>		
University of California, San Diego		FALL 2016
<i>Teaching Assistant. IRGN452: Big Data Analytics.</i>		
University of California, San Diego		SPRING 2016
<i>Co-Instructor. Teaching skills in R, Python and Data Management.</i>		
University of California, San Diego		WINTER 2016

REVIEWING	ACM Symposium on User Interface Software and Technology (UIST)	2022, 2020
	ACM Conference on Designing Interactive Systems (DIS)	2018

REFERENCES Available upon request