

Ha-Kyung (Hidy) Kong

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Education

University of Illinois Urbana Champaign

PHD CANDIDATE IN COMPUTER SCIENCE

Advisor: Dr. Karrie Karahalios

Champaign, IL

anticipated May 2019

Calvin College

B.S. IN COMPUTER SCIENCE (WITH HONORS DISTINCTION)

B.A. IN MUSIC (WITH HONORS DISTINCTION)

Grand Rapids, MI

May 2013

Research Interests

My research in Human-Computer Interaction aims to facilitate communication through visualizations. I design, build, and evaluate interactive systems to study people's perceptions and usage of data visualization in various domains including healthcare and the media.

Research and Professional Experience

Research Assistant

UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN

- Held bi-weekly meetings with special education professors and graduate students to develop a Family Behavior Support app (FBSapp) to address challenging behaviors of children
- Iteratively developed the design for FBSapp with a design student and implemented the app in Swift

Champaign, IL

Fall 2016 - present

Research Intern

ADOBE CREATIVE TECHNOLOGIES LAB

- Studied presenters' preferences and uses of visual cues that guide the audience's attention to a particular area of a visualization. Developed a visual cue taxonomy and a visual cue webtool (VisualQ).
- Studied frames and slants in visualization titles and how they affect visualization interpretation.

San Francisco, CA

Summer 2016, 2017

Website Developer

CALVIN COLLEGE

- Designed and implemented the parsing of a hymn database website
- Worked with different types of XML files and published books on Amazon and iBook

Grand Rapids, MI

Summer 2012 - Spring 2013

Publications

Journal articles (peer-reviewed)

Kong, H. K.*, Lee, J.*, & Karahalios, K. (2017). "A Comparative Study of Visualizations with Different Granularities of Behavior for Communicating about Autism." *Proc. ACM Hum.-Comput. Interact*, 1(CSCW), 59-1. (27% acceptance rate)

*Both authors contributed equally to this work

Rahman, S., Aliakbarpour, M., **Kong, H. K.**, Blais, E., Karahalios, K., Parameswaran, A., & Rubinfield, R. (2017). "I've seen enough: incrementally improving visualizations to support rapid decision making." *Proceedings of the VLDB Endowment*, 10(11), 1262-1273.

Kong, H. K., Liu, Z., & Karahalios, K. (2017, June). "Internal and external visual cue preferences for visualizations in presentations." In *Computer Graphics Forum* (Vol. 36, No. 3, pp. 515-525). (27% acceptance rate)

Conference proceedings (peer-reviewed)

Kong, H. K., Liu, Z., & Karahalios, K. “Trust and Recall of Information across Varying Degrees of Title-Visualization Misalignment,” [CHI 2019] (23.8% acceptance rate)

Kong, H. K., Zhu, W., Liu, Z., & Karahalios, K. “Understanding Visual Cues in Visualizations Accompanied by Audio Narrations,” [CHI 2019] (23.8% acceptance rate)

Kong, H. K., Liu, Z., & Karahalios, K. (2018, April). “Frames and Slants in Titles of Visualizations on Controversial Topics.” In Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems (p. 438). ACM. (25.7% acceptance rate)

Kong, H. K., & Karahalios, K. (2016). “Parental Perceptions, Experiences, and Desires of Music Therapy.” In AMIA Annual Symposium Proceedings (Vol. 2016, p. 1870). American Medical Informatics Association.

Lee, J., **Kong, H. K.**, Lin, S., & Karahalios, K. (2016). “Plexlines: Tracking Socio-communicative Behaviors Using Timeline Visualizations.” In AMIA Annual Symposium Proceedings (Vol. 2016, p. 1890). American Medical Informatics Association.

Kong, H. K.*, Lee, J.*, Ding, J., & Karahalios, K. (2016, June). “EnGaze: Designing Behavior Visualizations with and for Behavioral Scientists.” In Proceedings of the 2016 ACM Conference on Designing Interactive Systems (DIS, pp. 1185-1196). ACM. (26% acceptance rate)

Kim, J. G., **Kong, H. K.**, Karahalios, K., Fu, W. T., & Hong, H. (2016, May). “The power of collective endorsements: credibility factors in medical crowdfunding campaigns.” In Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems (pp. 4538-4549). ACM. (23.4% acceptance rate)

Kong, H. K., Wu, Y. W., Bailey, B., & Karahalios, K. (2015, December). “Culture, Imagined Audience, and Language Choices of Multilingual Chinese and Korean Students on Facebook.” In International Conference on Social Informatics (pp. 1-16). Springer, Cham.

In Progress

Kong, H. K., Fettig, A., Meadan, H., Barton, E. & Karahalios K. “Family Behavior Support App: Designing with Families and Service Providers.”

Kim, J. G., **Kong, H. K.**, Hong, H. & Karahalios, K. “Enriched Social Translucence in Medical Crowdfunding.”

Teaching Experience

Teaching Assistant

UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN

Champaign, IL

Fall 2013 – Spring 2016

- INFO103 (≈ 40 students) – Created and graded a machine problem, led weekly lab sections
- CS101 (≈ 700 students) - Led two weekly lab sections of 40 students
- CS467 - Social Visualizations (≈ 90 students) - Reviewed the weekly paper critiques & mentored and evaluated design projects

Guest Lecturer

UNIVERSITY OF ILLINOIS URBANA CHAMPAIGN

Champaign, IL

- CS598K GK (Social Spaces) - Misinformation and Consequences - 9/13/2018
- CS598K GK - Public Displays and Performance - 9/12/2017
- CS467 (Social Visualization) - NLP, Sentiment Analysis, Machine Learning and Pattern Recognition - 03/29/2016
- CS467 - Ethics and Privacy - 11/18/2014
- CS467 - NLP, Sentiment Analysis, Machine Learning and Pattern Recognition - 10/28/2014
- CS467 - Audio-Video Systems - 10/21/2014
- CS105 - Recursion - 11/11/2013

Tutor

CALVIN COLLEGE

- Computer science: 'Intro to Programming' and 'Data Structures and Algorithms'
- Music: 'Music Theory I,' 'Music Theory II,' and 'Music History II'
- Psychology: 'Intro to Psychology' and 'Abnormal Psychology'

*Grand Rapids, MI
Fall 2010 - Spring 2013*

Academic Coach

CALVIN COLLEGE

- Coached students to manage time efficiently, organize better, and study effectively
- Gave suggestions and advice on how to manage academics with other areas of life

*Grand Rapids, MI
Summer 2012 - Spring 2013*

Selected Honors & Awards

- 2018-2019 **Marion Morse Wood Fellowship**
- 2017 **Grace Hopper Celebration of Women in Computing (GHC) Student Scholarship**
- Fall 2014 **Outstanding Teaching Assistant Award**
- 2013 **CCA Computing Award** Awarded to the top graduating senior in computer science
- 2009-2013 **Trustee Scholarship** Awarded to top 3% of first-year students accepted

Academic and Community Services

- Student Volunteer** 2018 ACM CSCW, Jersey City, U.S.A., Nov 2018
- Mentor** Girls who Code, San Francisco, U.S.A., Summer 2016
- Reviewer** AMIA 2017, VIS 2018, CHI 2018-2019, JAMIA 2018

References

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