

# Ha-Kyung (Hidy) Kong

201 N Goodwin Ave., Rm. 4103 Siebel Center, Urbana, IL 61801

✉ hkong6 at illinois dot edu | 🏠 www.hidykong.com | 📷 hidykong | 📺 hidykong

## Education

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### 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

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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

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### 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

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### 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," [In submission]

**Kong, H. K.**, Zhu, W., Liu, Z., & Karahalios, K. "Understanding Visual Cues in Visualizations Accompanied by Audio Narrations," [In submission]

**Kong, H. K.**, Fettig, A., Meadan, H., Barton, E. & Karahalios K. "Family Behavior Support App: Designing with Families and Service Providers," [In submission]

Kim, J. G., **Kong, H. K.**, Hong, H., & Karahalios, K. "Enriched Social Translucence in Medical Crowdfunding," [In submission]

**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.

## Teaching Experience

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### 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

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

## Academic and Community Services

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

## References

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Karrie Karahalios, Ph.D.  
Professor of Computer Science  
University of Illinois at Urbana-Champaign  
4228 Siebel Center, Urbana, IL 61801  
(217) 265-6841  
kkarahal@illinois.edu

Leo Zhicheng Liu, Ph.D.  
Research Scientist  
Adobe Research, Creative Intelligence Lab  
801 N 34th St, Seattle, WA 98103  
(415) 832-4366  
leoli@adobe.com

Wai-Tat Fu, Ph.D.  
Associate Professor of Computer Science  
University of Illinois at Urbana-Champaign  
4226 Siebel Center, Urbana, IL 61801  
(217) 244-8617  
wfu@illinois.edu

Hedda Meadan-Kaplansky, Ph.D.  
Associate Professor of Special Education  
University of Illinois at Urbana-Champaign  
1310 S. Sixth St., Champaign, IL 61820  
(217) 333-0260  
meadan@illinois.edu