

# Shiqing (Licia) He

CURRICULUM VITAE  
ASSISTANT PROFESSOR · VISUALIZATION

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## Education

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### University of Michigan, School of Information

Ann Arbor

PHD IN INFORMATION SCIENCE

2015 - 2021

Advisor: Dr. Eytan Adar

Research Interests: Design, Art & Craft, Fabrication, HCI, Information Visualization, Generative Art, Robotic Art

Dissertation Topic: "Finding the Grammar of Generative Craft," advised by Eytan Adar

Committee members: Sophia Brueckner, Ron Eglash, Matthew Kay

### Union College

Schenectady, New York, U.S.A.

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND STUDIO ART

2011 - 2014

Phi Beta Kappa, Union Scholar

Computer Science Honor Thesis: "Structuring the Unstructured Note: Automatic Organizing and Formatting for lecture notes," advised by Kristina Striegnitz

Studio Art Honor Thesis: "Childhood Memory," advised by Sandy Wimer

## Publications

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### PUBLISHED

Elsie Lee-Robbins, **Shiqing He**, and Eytan Adar. Learning Objectives, Insights, and Assessments: How Specification Formats Impact Design *VIS'21: IEEE transactions on visualization and computer graphics* (2021)

John Joon Young Chung, **Shiqing He**, Eytan Adar. The Intersection of Users, Roles, Interactions, and Technologies in Creativity Support Tools *DIS '21: Proceedings of the 2021 ACM Designing Interactive Systems Conference* (2021)

**He, Shiqing**, Eytan Adar. Plotting with Thread: Fabricating Delicate Punch Needle Embroidery with X-Y Plotters *DIS '20: Proceedings of the 2020 ACM Designing Interactive Systems Conference* (2020): page 1047-1057. 12 Jul. 2020. **Honorable Mention Award, Top 5% Submissions**, AR:24%

**He, Shiqing**, Allen Yilun Lin, Eytan Adar, and Brent Hecht. "The\_Tower\_of\_Babel.jpg: Diversity of Visual Encyclopedic Knowledge Across Wikipedia Language Editions" *ICWSM '18 International AAAI Conference on Web and Social Media* (2018): n. pag. Web. 12 Jul. 2018. **Best Paper Award, 1/295**, AR:16%

**He, Shiqing**, and Eytan Adar. VizItCards: A Card-Based Toolkit for Infovis Design Education. *VIS '16 IEEE transactions on visualization and computer graphics* (2016): , vol. 23, no. 1, pp. 561-570, Jan. 2017. AR:22%

## Professional Experience

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- 2021-Present **Assistant Professor**, Department of Visualization, College of Architecture, Texas A&M University, College Station, TX, U.S.A.
- 2015-2021 **Graduate Research Assistant**, School of Information, University of Michigan, Ann Arbor, MI, U.S.A.
- 2015-2021 **Graduate Teaching Assistant**, School of Information, University of Michigan, Ann Arbor, MI, U.S.A.
- 2019.5-2019.8 **UX-Data Visualization Intern**, Google, People Analytic Product Lab, Sunnyvale, CA, U.S.A.
- 2014-2015 **Thomas J. Watson Fellow**, Funded Independent research, Multiple Locations across 10 Countries
- 2013.6-2013.8 **Research Intern**, IBM Beijing Research Lab, Beijing, China

## Awards, Fellowships, & Grants

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2020	<b>Rackham Graduate Research Award</b> , Rackham Graduate School, University of Michigan	\$ 3,000
	<b>Arts Integrative Interdisciplinary Research (AiiR) Grant</b> , ArtsEngine, University of Michigan	\$ 3000
2018	<b>Best Implementation Award</b> , UIST'18 Student Innovation Contest	\$ 1,000
2014	<b>Thomas J. Watson Fellowship</b> , Thomas J. Watson Foundation	\$ 28,000
	<b>Meritorious Prize in The Mathematical Contest in Modeling</b> , The Consortium for Mathematics and Its Applications (COMAP)	
2013	<b>Honorable Mention in The Mathematical Contest in Modeling</b> , The Consortium for Mathematics and Its Applications (COMAP)	
	<b>Grace Hopper Celebration Scholarship</b> , AnitaB.org	
	<b>Honorable Mention in the First Intercollegiate Art Competition</b> , Lower Adirondack Regional Art Council, Glan Falls, NY, U.S.A.	
	<b>Arnold L. Bittleman Memorial Prize</b> , Union College	\$ 500

## Teaching Experience

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Fall 2020	<b>Information Visualization (SI649)</b> , Graduate Student Instructor, University of Michigan
Winter 2020	<b>Information Visualization (SI649)</b> , Graduate Student Instructor, University of Michigan
Fall 2019	<b>Information Visualization (SI649)</b> , Graduate Student Instructor, University of Michigan
Winter 2018	<b>Information Visualization (SI649)</b> , Graduate Student Instructor, University of Michigan
Spring 2017	<b>Tableau Bootcamp</b> , Instructor, University of Michigan
Fall 2017	<b>Information Visualization (SI649)</b> , Graduate Student Instructor, University of Michigan
Fall 2016	<b>Information Visualization (SI649)</b> , Graduate Student Instructor, University of Michigan

## Presentations

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### INVITED TALKS AND CONFERENCE PRESENTATIONS

2020	<i>Plotting with Thread</i> , DIS'20, Virtual Conference	<i>Conference Presentation</i>
2019	<i>From Data Visualization to Generative Art</i> , We are GWE'19, Google, CA, U.S.A.	<i>Conference Presentation</i>
	<i>The_Tower_of_Babel.jpg</i> , Wikipedia Research Showcase, Online Presentation	<i>Invited Presentation</i>
2018	<i>The_Tower_of_Babel.jpg</i> , ICWSM'18, CA, U.S.A.	<i>Conference Presentation</i>
2016	<i>VizitCards for Infovis Design Education</i> , INFOVIS'16, MD, U.S.A.	<i>Conference Presentation</i>
	<i>VizitCards for Infovis Design Education</i> , The Michigan Interactive and Social Computing (MISC), MI, U.S.A.	<i>Invited Presentation</i>
2015	<i>The Fading Color: Natural Color Production Around the Globe</i> , TJW Fellow Conference'15, Online Presentation	<i>Conference Presentation</i>
2013	<i>Structuring the Unstructured Note</i> , Steinmetz Symposium, NY, U.S.A.	<i>Invited Presentation</i>

### GUEST LECTURES

2020	<i>Data Mining: Methods and Applications (SI671)</i> , University of Michigan, MI, U.S.A.
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- 2019 *Data Mining: Methods and Applications (SI671)*, University of Michigan, MI, U.S.A.
- 2018 *Data Mining: Methods and Applications (SI671)*, University of Michigan, MI, U.S.A.
- 2017 *Introduction to Information Studies (SI110)*, University of Michigan, MI, U.S.A.

#### POSTER AND DEMOS

- 2019 *Generative Art*, PIRC'19 (Google), CA, U.S.A. *Poster*
- 2018 *DoodleIT: a Heartbeat-driven Drawing Robot*, UIST'18, Berlin, Germany *Demo*
- 2016 *"AI," "Human," "Programmer"*, UIST'16, Tokyo, Japan *Demo*  
*VizitCards*, CRA-W Grad Cohort Workshop, CA, U.S.A. *Poster*
- 2013 *Summer Research Report*, IBM CRL, Beijing, China *Poster*

### Exhibition, Residency, & Commission

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#### SOLO EXHIBITION

- 2014 *Childhood Memory*, Senior Honorary Exhibition, Union College Visual Art Gallery, NY, U.S.A.
- 2013 *Human Body*, Scholar Project Exhibition, Union College Visual Art Gallery, NY, U.S.A.  
*First Times*, Bittleman Drawing Award Winner Exhibition, Union College Visual Art Gallery, NY, U.S.A.

#### GROUP EXHIBITION

- 2020 *Radial Symmetry*, University of Michigan, MI, U.S.A.
- 2016 *All Media Exhibition*, Ann Arbor Art Center, MI, U.S.A.
- 2013 *First Intercollegiate Art Competition*, Lower Adirondack Regional Art Council, NY, U.S.A.  
*Drawn to Print: Paris Mini-term Exhibition*, Union College Visual Art Gallery, NY, U.S.A.
- 2012 *Union College Visual Art Selected Work*, Union College Visual Art Gallery, NY, U.S.A.  
*Steinmetz Exhibition*, Union College Visual Art Gallery, NY, U.S.A.  
*Student Invitation Exhibition*, Union College Visual Art Gallery, NY, U.S.A.

#### RESIDENCY

- 2015.5-2015.7 *Empty Space*, Chiang-Mai, Thailand
- 2014.11 *Scuola Internazionale di Grafica Venezia*, Venice, Italy

#### COMMISSION

- 2017 *One Day*, Digital Interactive Installation, 2X2 digital displays, DOIIT Studio, Michigan, U.S.A.
- 2016 *The Flow of the Lotus*, Acrylic on Wall, 120 x 160 inches, MeiZao Villa Resort, Yunnan, China

### Professional Development & Service

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#### CONFERENCE AND JOURNAL REVIEWING

- 2021 DIS (Associate Chair)
- 2020 DIS
- 2020 INFOVIS
- 2019 DIS
- 2019 Transaction on Social Computing
- 2018 UIST
- 2018 CHI
- 2017 INFOVIS
- 2017 CHI

#### COMMUNITY SERVICE

- 2016-2020 **Committee Member**, DoIIIT Studio (The Designers of Interactive, Intelligent, Internet of Things)
- 2018-2020 **Coordinator**, DoIIIT Studio (The Designers of Interactive, Intelligent, Internet of Things)

#### Selected Press

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- 2020 **Dirt Alley Design**, *How to Watercolor Paint with a Robotic Drawing Machine: An Interview with Licia He*
- 2018 **UMSI News**, *Licia He awarded Best Paper at ICWSM18*
- 2017 **Faces of UMSI**, *Faces of UMSI: Shiqing "Licia" He*
- 2014 **Union College**, *Two Union students named Watson Fellows*