

Zhicong Lu

Education

- Jan. 2017 - **University of Toronto**, Toronto, Canada
 Present **Ph.D. in Computer Science**
 – Supervised by Professor Daniel Wigdor
- Sept. 2015 **University of Toronto**, Toronto, Canada
 –Jan. 2017 **Master of Science in Computer Science**
 – Supervised by Professor Daniel Wigdor
- Sept. 2012 **Tsinghua University**, Beijing, China
 –July 2015 **Master of Arts in Interdisciplinary Studies of Information and Art Design**
 – Co-supervised by Professor Ying-Qing Xu and Professor Yuanchun Shi
 – Enrolled in Tsinghua-UC Berkeley Global Technical Entrepreneurship Program
- Sept. 2008 **Tsinghua University**, Beijing, China
 –July 2012 **Bachelor of Engineering in Electronic Information Science and Technology**
 – *Thesis: Energy Harvesting Device for Structural Health Monitoring System*; developed a hardware to harvest energy from ambient vibrations, using TinyOS nesC to program the sensors for power management
- Sept. 2010 **Bachelor of Arts in Design**
 –July 2013 – Designed and developed a tangible AR game for enhancing collaboration between players with computer vision technology and Processing; reported in local newspaper

Publications

- Zhicong Lu**, Haijun Xia, Seongkook Heo, Daniel Wigdor. 2018. You Watch, You Give, and You Engage: A Study of Live Streaming Practices in China. (To appear in CHI 2018)
- J. Lin, **Z. Lu** (2017) The Rise and Proliferation of Live-Streaming in China: Insights and Lessons. In: Stephanidis C. (eds) HCI International 2017 – Posters' Extended Abstracts. HCI 2017. Communications in Computer and Information Science, vol 714. Springer, Cham
- Mingming Fan, Anuruddha Hettiarachchi, **Zhicong Lu**, Seyong Ha, and Priyank Gupta. 2017. Comparing Mid-air Finger Motion with Touch for Small Target Acquisition on Wearable Devices. In Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems (**CHI EA '17**). ACM, New York, NY, USA, 1593-1600.
- F. Grey, E. Hwu, **Z. Lu**, et al. "LEGO2NANO: Designing interactive science for children in China" **IDC 2014 Extended Abstract** (Demo Paper), Aarhus, Denmark, 2014.
- D. Shi, K. Fang, **Z. Lu**, et al. "Smart Flash: A Prototype of an Active Style Camera" Issue 10, *Journal of Decoration*, Beijing, 2014.

Awards

- 2015 **Wolfond Scholarship**, University of Toronto
- 2014 **Meilin Han Scholarship**, Academy of Arts and Design (for distinguished students in arts and design)
- 2013 **Ding Zhang Scholarship**, Academy of Arts and Design (Top 5% in class)
- 2008 **Scholarship for Freshmen**, Tsinghua University, Top 10 in Collage Entrance Exam in Ningxia Province

Projects & Experience

- Sept. 2015 **InkPlanner: An Integrated Pen+Touch Tool for Prewriting**, *University of Toronto, Toronto, Canada*
–April 2017 Advisor: Prof. Daniel Wigdor, University of Tasmania, Co-authors: Michelle Annett, Mingming Fan, Jian Zhao
- A novel pen and touch-based tool that supports prewriting by allowing writers to seamlessly utilize five prewriting strategies to generate ideas (brainstorming, freewriting, mind mapping, concept mapping, and argument mapping), and then sort the ideas into a logical storyline followed by an outline that can be used to guide drafting
 - The system is powered with machine generated semantic and structural suggestions curated from various texts
 - Conducted a controlled user experiment that compared the use of InkPlanner for prewriting and drafting tasks with a commercial diagramming tool (draw.io)
- Dec. 2013 **Interaction Design Internship in HITLab AU**, *Univ. of Tasmania, Tasmania, Australia*
–April 2014 Advisor: Prof. Henry Duh, University of Tasmania
- Collaborated with designers in the company of Sense-T and designed information architecture of the situational awareness system, based on data of their sensor networks and findings from workshop with 20 farm managers
 - Researched over 20 papers about application of tangible user interaction and gamification in agriculture; highly commented by Prof. Henry Duh as a new research direction about HCI and food product innovation
- Sept. 2014 **Frigadget, Student Innovation Contest, UIST 2014**, *Honolulu, Hawaii, US*
–June 2015 Advisor: Prof. Ying-Qing XU and Yuanchun Shi, Tsinghua University
- Studied design space of human-food interaction with cultural probes and surveys
 - Designed and prototyped a smart device based on the findings with X-Bee and Raspberry Pi to help people manage food and reduce food waste by recording food data in fridge with user interface
- Jan. 2013 **PiMi, Personal PM2.5 Monitor with Related Mobile App**, *Beijing, China*
–Dec. 2013 Advisor: Prof. Lin Zhang, Dept. of Electronic Engineering, Tsinghua University
- Designed the interaction flow of the device with interviews, storyboard and journey map
 - Designed and developed an online community website for 500 users to log personal air quality data
 - Reported by China Education TV
- April 2011 **“Falling in Love with Library” Tsinghua Library Project**, *Beijing, China*
–Nov. 2011
- Made a web-based bookshelf-matching game to raise brand awareness for the library; first library game in China
 - Wrote script for 1 of the 5 video dramas; best story in feedback from over 20,000 students
 - Awarded **1st place of 10th IFLA International Marketing Award** in 2012

Skills & Interests

Languages	Chinese/English
Programming	C/ C++/Java/Matlab/JavaScript/Processing/Action Script 3.0/Python/Html5/Objective-C/PHP/OpenCV
Hardware	Arduino/Raspberry Pi/FPGA/Verilog/DSP
Software	Matlab/MySQL/Qt/Flash/Arduino/Processing/Altium Designer/Eagle/Photoshop/Illustrator/Maya/SketchUp
Interests	Drawing/Tennis/Erhu (Chinese traditional instrument)/Photography

Service

- 2018 **CHI 2018** Reviewer for Papers (Received a '**Special Recognitions**')
2017 **CHI 2017** Reviewer for Late-Breaking Work
Chinese CHI 2017 Technical Liaison
2016 **CHI 2016** Reviewer for Art Exhibition
DIS 2016 Reviewer for Papers and Notes
2015 **Chinese CHI 2015** Editor for Chinese CHI Newsletter