

# RUI PAN

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## INTRODUCTION

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I am a thesis-based Master of Science student in School of Interactive Arts and Technology at Simon Fraser University. My research areas are human computer interaction (HCI), computer supportive cooperative work (CSCW) and domestic computing. My senior supervisor is Dr. Carman Neustaedter. Many of my research projects are about how to design interactive systems and tools to help users communicate better, especially in domestic environment (family members, long-distance couples etc.). I have both Computer Science and User Experience research design backgrounds.

## SELECTED COURSES

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### UX/Design Related:

Qualitative Research Methods  
Tangible Computing

Knowledge Visualization and Communication  
Cognition, Learning and Collaboration

### Computer Science Related:

Data structures and Algorithms  
Computer Graphics and Human Computer Interaction

Databases and Computer Networks  
Data Mining and Operating Systems

## EDUCATION

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### Simon Fraser University

GPA: 4.17/4.33

*Master of Science*, School of Interactive Arts and Technology

2015-2017

### University of Electronic Science and Technology of China

GPA: 82/100

*Bachelor of Engineering* in Computer Science

2011-2015

### National Taiwan University of Science and Technology

GPA: 4.00/4.00

*Exchange Student*

2013-2013

## PUBLICATIONS

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### Conference Papers & Posters:

1. **Rui Pan**, Lyn Bartram and Carman Neustaedter. (2016) TwitchViz: A Visualization Tool for Twitch Chatrooms. *ACM Conference on Computer Human Interaction (CHI '16 Late-Breaking Work)*.
2. Samarth Singhal, Carman Neustaedter, Thecla Schiphorst, Anthony Tang, Abhishek Patra, **Rui Pan**. (2016) You are Being Watched: Bystanders' Perspective on the Use of Camera Devices in Public Spaces. *ACM Conference on Computer Human Interaction (CHI '16 Late-Breaking Work)*
3. Henry Lo, **Rui Pan** and Carman Neustaedter. (2016) Collaboration in Real-Life Escape Rooms. *ACM Conference on Designing Interactive Systems (In Submission to DIS '16 Proceedings)*.
4. **Rui Pan**, Azadeh Forghani, Carman Neustaedter, Nick Strauss, and Ashley Guindon. (2015) The Family Board: An Information Sharing System for Family Members. In *Proceedings of the 18th ACM Conference Companion on Computer Supported Cooperative Work & Social Computing (CSCW'15 Companion)*. ACM, New York, NY, USA, 207-210.

### Workshop Proposals & Technical Reports:

1. **Rui Pan**, Carman Neustaedter and Thecla Schiphorst. (2016) How Collocated Couples Play in Real-Life Escape Rooms, *Proceedings of the CSCW 2016 Workshop on Collocated Interaction, held at the Conference on Computer Supported Cooperative Work and Social Computing*.
2. Henry Lo, **Rui Pan** and Carman Neustaedter. (2015) Communication, Collaboration, and Coupling: What Happens When Friends Try to Escape the Room?, *Connections Lab Technical Report, Simon Fraser University*.

## WORK EXPERIENCE

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### Web Developer at Simon Fraser University

Jan. 2016 - April 2016, Vancouver

I worked on the redesign of the official website of my department:

- Discussed with school committee board and designed website based on their needs.

## Teaching Assistant at Simon Fraser University

Sep. 2015 – April. 2016, Vancouver

IAT-352: Internet Computing Technologies (3 Credit). I taught students how to:

- Design and implement web application using **PHP**. Apply **XML** and **AJAX** to exchange data using **REST services**.
- Design a **relational database**, and use **MySQL** to support the web application. (Students' TA evaluation: 3.40/4.00)

IAT-805: Graduate Research Colloquium:

- Organize and host weekly speakers from academy and industry about state-of-art technologies and researches.

## Research Assistant at Mitacs Inc.

June 2014 - Aug. 2014, Vancouver

Worked as research assistant at Mitacs Inc. with SFU:

- Used **iterative design** process for systems and fulfilled the industrial partner's needs.
- Designed and built systems for research purposes.

## Part-time Web Developer at Shuangyang Technology

Oct. 2013 – May 2014, Chengdu, China

The projects in the start-up company include website, management system for schools and website for restaurants:

- Designed the backend infrastructure of a restaurant website using **PHP** and **MySQL**. It supports multiple member groups (customers, chefs and managers) with different functional pages.
- Designed a frontend interface for a student management system using **HTML5**, **JavaScript** and **Bootstrap**. The interface supports the visualization of students' grade and online timetable scheduling.

## PROJECTS

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### Research Projects on People Playing in Escape Rooms

Oct. 2015 - July 2016

- Conducted **User Study** with couples using **Qualitative Research Methods** to understand how they collaborate in real-life escape rooms and how the game experience can help couples enhance communication and intimacy. Analyzed interviews and observation records using **Grounded Theory Method**. We found the real-life escape rooms are a novel way for helping couples communicate better and handle daily conflicts.
- Planning to design and implement video and game system to support long-distance relationships participate in escape rooms.

### TwitchViz: A Visualization Tool for Twitch Chatrooms

Oct. 2015 - Dec. 2015

- Implemented a **visualization** tool of viewers' behaviors in Twitch.tv chatrooms using **D3js** and Twitch.tv API.
- Discussed the visualization principles behind the design. Did a pilot study on how people use TwitchViz.
- The purpose is to help game designers and senior gamers to understand better the relationship between the gameplay and users' behaviors in chatrooms.

### The SemHome: An Ontology Reasoning System for Smart Family

Oct. 2014 - June 2015

- Designed the architecture of an **ontology reasoning** system to demonstrate a usage scenario of combining **Machine to Machine** and **Semantic Web** technologies. It supports automatic inference from sensor data in the home context.
- Implemented the intelligent system using **Java**, **JavaFX** and **Apache Jena**.

### The Family Board: An Information Sharing System for Family Members

June 2014 - Nov. 2014

- Set and maintained **LAMP** environment on VPS **Linux server**. Implemented the system using **PHP**, **HTML5**, **JavaScript**, **MySQL** and **Google API** successfully. The system helped family members better organize daily info.

### Mobile Game Designs

Feb. 2013 - June 2013

- Built mobile games with instructors from game industry under **Agile Software Development**.
- Designed and implemented three different mobile games by myself and teamwork using **Unity3D** and **JavaScript**. Our game was exhibited in a public showcase in Taipei.

## SKILLS

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Languages: Java, PHP, SQL, JavaScript, Python, C/C++, HTML, CSS

Software: IntelliJ IDEA, Eclipse, Visual Studio, MySQL, Git, Linux, Apache

Miscellaneous: Amazon Web Services, Apache Jena, jQuery, D3js, JavaFX, Node.js, MongoDB, Bootstrap

Linguistics: Mandarin (Native), English (Fluent)

## HONORS & AWARDS

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Mitacs Globalink Fellowship (\$10,000)

Sep. 2015

SIAT Travel Award (\$1,000)

Feb. 2016

China Scholarship Council Overseas Research Fund (\$4,500)

Sep. 2015

Renmin (People) Scholarship

2012, 2013, 2014