

## FELICIA NATALI HUANG

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### EDUCATION, QUALIFICATION, AND TRAINING

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**Singapore Management University;** Victoria Street, Singapore 2013 – 2018  
*PhD in Information Systems*

**Carnegie Mellon University;** Pittsburgh, US 2016 – 2017  
*Visiting Scholar*

- Joined the Center for Computational Analysis of Social Organizational Systems and received guidance and training in research.

**Singapore Management University;** Victoria Street, Singapore 2007 – 2011  
*Bsc in Information Systems*

- Graduated with *Cum Laude*.

### EMPLOYMENT HISTORY

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**University College London** October 2021 -  
*Data Manager at the MRC Unit for Lifelong Health and Ageing*

- Support and take forward management of the research data for the cohort studies managed by the MRC LHA (Medical Research Council Unit for Lifelong Health and Ageing).
- Prepare and provide high quality, readable, and relevant data for the COVID-19 National Core Studies programme.
- Management and design optimization of research databases for analysis.

**Singapore University of Technology and Design** 2018 - 2021  
*Research Fellow at the Lee Kuan Yew Centre for Innovative Cities*

- Conducted, and collaborated in several research projects that harness big data to help with urban planning. You can view my current projects and my role in them under *projects* headline.
- Guided and supervised student assistants in these projects.

**Singapore Telecommunications Limited** 2011 – 2012  
*IT Analyst*

- Assisted in building an online purchase site for Optus, a Singtel-owned telecommunication company based in Australia.
- Performed quality testing.
- Conducted code review for the Chengdu outsourcing team.

### ADDITIONAL EXPERIENCES

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**VICE Magazine Indonesia** January 2017 – December 2017  
*Translator*

- Translated Chinese articles into English. You can view my edited translations here:  
[https://www.vice.com/en\\_id/contributor/felicia-huang](https://www.vice.com/en_id/contributor/felicia-huang)

**Y3 Technologies** April 2009 – August 2009  
*IT Intern*

- Performed quality testing.
- Organized workshop.
- Wrote documentation.

**Singapore Management University** 2010 – 2017  
*Teaching Assistant at the School of Information Systems*

- During the period 2010-2017, I was intermittently a teaching assistant for a course.
- From September – December 2017, I was a teaching assistant for the course “Information Systems and Innovation”.
- From January – April 2016, I was a teaching assistant for “Data Warehousing and Business Analytics”.
- From January – April 2011, I was a teaching assistant for “Data Mining and Business Analytics”.

- From January – April 2010, I was a teaching assistant for “Information Security and Trust”.
- As a teaching assistant my responsibilities included grading assignments, answering questions from students, aiding the professor in preparing in-class exercises, and helping students with in-class exercises.

## PUBLICATIONS

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**Google Scholar:** <https://scholar.google.com/citations?user=5pAqgfwAAAAJ&hl=en>

### **Sensing Community Resilience from COVID-19 Using Social Media**

2021

*Felicia N. HUANG, Kelly LIM, Evan SIDHI, and Belinda YUEN*

A book chapter in “COVID –19 : Geospatial Information and Community Resilience” by Taylor and Francis Group

### **Offline versus Online: A Meaningful Categorization of Ties for Retweet**

SocInfo 2018

*Felicia NATALI* and Feida ZHU

The 10<sup>th</sup> International Conference on Social Informatics

### **Exploring Offline Friendships on the Social Information Network: Network Characteristics, Information Diffusion, and Tie Strength**

Thesis Defense 2018

*Felicia NATALI*

Singapore Management University Thesis Defense 2018

### **The Role of Different Tie Strength in Disseminating Different Topics on a Microblog**

ASONAM 2017

*Felicia NATALI, Binxuan HUANG, Kathleen M. CARLEY, Feida ZHU*

The International Conference on Advances in Social Network Analysis and Mining 2017

### **A Comparison of Fundamental Network Formation Principles between Offline and Online Friends On Twitter**

NetSciX 2016

*Felicia NATALI, Feida ZHU*

International School and Conference on Network Science 2016

### **Extending the Network: The Influence of Offline Friendship on Twitter Network**

AMCIS 2016

Youngsoo KIM, Kyungsub CHOI, and *Felicia NATALI*

Americas Conference on Information System 2016

### **Investigating the Influence of Offline Friendship on Twitter Networking Behaviors**

HICSS 2016

Youngsoo KIM, *Felicia NATALI*, Feida ZHU, and Ee-Peng LIM

49<sup>th</sup> Hawaii International Conference on System Sciences

## PROJECTS

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**Github:** <https://github.com/fnhuang>

### **AI and Health for Older Adults in Singapore**

2019 –

Abstract: In collaboration with the Tampines Town Council, Changi General Hospital, Singapore General Hospital, and Aalto University in Finland, the project uses AI to understand how built environment affects neighbourhood walkability for older adults.

- Supervise 8 students for data collection using participatory GIS software (Maptionnaire) and life-logging cameras.
- Perform analysis of the data collected and guide research assistants to help with the analysis.
- Write reports and publish journal articles on the findings.

### **Covid-19 and Singapore Social Resilience**

Summer 2020

Abstract: Social resilience is important in the fight against COVID-19. Often, social resilience is reflected as a sentiment in a social media. Using Twitter data, this project studies how external factors influence social resilience in Singapore against COVID-19.

- Review previous studies on (1) COVID-19 and social resilience, and (2) social media and social resilience.
- Scrape Twitter data.
- Clean and analyze the data collected using LDA method.
- Publish a book chapter on the findings.
- Supervise 2 student interns to assist in the tasks above.

### **Attractive Singapore**

2019 –

Abstract: What make Singapore attractive? Where are these places located? Why locals and visitors visit these places? Applying quantity-review-rating trichotomy, this project discovers attractions of Singapore that require improvement and where they are located.

- Review previous studies that use online reviews to analyze a city's attractiveness and local-tourist hotspots.
- Scrape TripAdvisor and Yelp data.
- Clean and analyze the data collected using sentiment analysis and TF-IDF.
- Write a journal article based on the findings.

### **Visual Arts as a Medium of Care in Dementia**

**2019**

Abstract: In collaboration with the National Gallery of Singapore, the project investigates the effect of visual art-viewing and visual artmaking on Singaporean older adults who suffer dementia.

- Interviewed Chinese-speaking older adults who are our research subjects.

### **Innovative Input-Output Relationship in Cities**

**2018 – 2019**

Abstract: The mismatch between Singapore's ranking in terms of innovation input, and innovation output is an evidence that innovation input does not always translate into innovation output. How exactly does innovation input translate into innovation output?

- Scraped scientific publication data as one of innovation inputs.
- Cleaned data and displayed requested statistics in a tabular form.
- Wrote code to agglomerate geographical administrative units into metropolitan area.
- Assisted in writing Social Science Research Thematic Grant proposal, with the theme of "Innovation and Labor Market".

## **INVITED TALKS**

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### **Exploring Network Characteristics and Information Diffusion among Offline Friends on Twitter**

**December 2019**

*Brownbag Lunch Talk*

Lee Kuan Yew Centre for Innovative Cities, Singapore University of Technology and Design, Singapore

### **Offline versus Online: A Meaningful Categorization of Ties for Retweet**

**September 2018**

*Conference Presentation*

Higher School of Economics, St. Petersburg, Russia

### **Exploring Offline Friendships on the Social Information Network**

**June 2018**

*Thesis Defense*

School of Information Systems, Singapore Management University, Singapore

### **The Role of Different Tie Strength in Disseminating Different Topics on a Microblog**

**July 2017**

*Conference Presentation*

Mercure Hotel, Sydney, Australia

### **A Comparison of Fundamental Network Formation Principles between Offline and Online Friends On Twitter**

**January 2016**

*Conference Presentation*

Wroclaw University of Science and Technology, Wroclaw, Poland

## **SKILLS**

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- Fluent **English**, Fluent **Bahasa Indonesia**, Advanced **Chinese** (HSK6/CEFR B2+), Basic **Russian** (CEFR A1+).
- Python, R, Octave, Java, JavaScript, SQL, HTML / CSS, Bash, Hugo, Github