

# Muhe Yang

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McGill University School of Information Studies | 3661 Peel, Montreal, QC, Canada H3A1X1

## EDUCATION

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### Ph.D. Candidate in Information Studies

Sep. 2019 – Present

McGill University, Montreal, Canada

School of Information Studies

- Research interests: Human-Computer Interaction, Accessibility, Older adults, Design
- Research topic: Supporting physical activity for older adults | Advisor: Dr. Karyn Moffatt

### M.F.A. in Information Design and Visualization

Sep. 2015 – May 2017

Northeastern University, Boston, U.S.

College of Arts, Media and Design

- Master's thesis: *Visiting, Picturing and Experiencing the Chinese Garden* | Advisor: Dr. Kristian Kloeckl
- Thesis design project: *Visualizing Seasonal Change in the Chinese Garden* | Advisor: Paul Kahn

### B.Eng. in Industrial Design

Sep. 2010 – July 2014

Taiyuan University of Technology, China

College of Mechanical Engineering

- Graduation design project: *Blossom—Stainless Kitchen Utensils Serial Design* | Advisor: Dr. Jing Zhao

## EXPERIENCE

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### ACT Lab, McGill University

Sep. 2019 – Present

*Research Assistant & Principal Investigator, Doctoral Research in Human-Computer Interaction*

- Doctoral research on designing behaviour change technology for older adults living alone to support their physical activity needs
- Conducted literature review on health persuasive technology, analyzed and synthesized methodologies in empirical studies, and wrote a full paper
- Proposed a study design (approved by my doctoral research committee)
- Conducting a user-centred design research with multiple data collection techniques (e.g., questionnaire, interview, design workshop)

### Defining Our Cyberspace NSERC Project

Jan. – Sep. 2022

*Research Assistant* supervised by Dr. Rebekah Willson and Dr. Benjamin Fung (McGill School of Information Studies)

- Conducted literature review on the information needs of reverse engineers in the field of cybersecurity
- Identified research gaps and potential directions; proposed study designs

**Master's thesis & follow-up independent research project: Information visualization of seasonal color change in the environment**

Jan. 2017 – Jan. 2020

*Principal Researcher*

- Master's thesis project: designing visualizations showing how visitors experience seasonal colour change in a Chinese garden
- Conducted a follow-up research based on the thesis as a self-initiated independent project
- Reviewed relevant literature, collected and analyzed data, proposed a new approach of visualizing seasonal colour change, and wrote a full paper
- Paper published in a peer-reviewed journal

**Taiyuan Jiaofei Geology Information Technology Co., China**

Sep. 2017 – Dec. 2018

*Design & Research Assistant*

- Designed, built demos, and assisted developing seism monitoring devices
- Assisted patent application process

**China Industrial Design Institute, Shanghai, China**

May–July 2016

*Design Intern*

- Assisted organizing *The 1<sup>st</sup> Shanghai Open Data Week* (June 3–8, 2016).
- Assisted organizing *Shanghai Open Data Applications (SODA)* competition
- Designed printed and digital materials to advertise relevant events
- Responsible for running the official SODA account on social media Weibo

**National Contest on Energy Saving & Emission Reduction, China**

Feb.–May 2012

*Undergraduate Researcher*

- Conducted a collective research project on reducing energy waste in university campus canteen system
- Conducted a survey, designed questionnaires, and collected and analyzed data

## PUBLICATIONS

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Conference Short Paper (Peer-reviewed)

**Yang, M.** (2022). Supporting Physical Activity in Later Life: Perspectives from Older Adults. In Proceedings of the 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '22). Association for Computing Machinery, New York, NY, USA, Article 94, 1–6. <https://doi.org/10.1145/3517428.3550411>

Journal Article (Peer-reviewed)

**Yang, M.** (2020). Investigating seasonal color change in the environment by color analysis and information visualization. *Color Research & Application*, 45(3), 503–511. <https://doi.org/10.1002/col.22484>

### Patent of Invention

Yang D., Li Z., Wang H., **Yang M.** (2018). Device and method for quickly identifying transverse waves on seismic monitoring records. CN201810365058. [submitted on April 23, 2018; under substantive examination and review since November 14, 2018]

### Master's Thesis

**Yang, M.** (2017). *Visiting, picturing and experiencing the Chinese garden* (Order No. 10271502). Available from ProQuest Dissertations & Theses Global. (1964252431).

## PRESENTATIONS

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### Research Presentations

**Yang, M.** (2022). Supporting Physical Activity in Later Life: Perspectives from Older Adults. In the Doctoral Consortium and Poster Session of *the 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'22)*, October 23–26, 2022, Athens, Greece.

**Yang, M.** and Moffatt, K. (2022). A Review of Empirical Studies on Persuasive Technology for Physical Activity: Common Practices and Current Trends. Poster presented at *Graphics Interface 2022 (GI'22)*, May 16–19, 2022, Montreal, QC, Canada.

**Yang, M.** and Moffatt, K. (2022). A Review of Empirical Studies on Persuasive Technology for Physical Activity: Common Practices and Current Trends. Poster presented at *the 14<sup>th</sup> EBSI-SIS Student Symposium in Information Studies*, April 28, 2022, Montreal, QC, Canada.

### Design Presentations

**Yang, M.** (May 2017). Visualizing Seasonal Change in the Chinese Garden. Master's thesis project presented and exhibited at Gallery 360, Northeastern University, Boston, U.S..

**Yang, M.** (June 2014). Blossom—Stainless Kitchen Utensils Serial Design. Undergraduate graduation design project presented and exhibited at Siyun Hall, Taiyuan Technology of University, Taiyuan, China.

## TEACHING ACTIVITIES

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**Teaching Assistant** of McGill Master's course INFS611 Research Principles & Analysis  
(Instructor: Dr. Ilja Frissen) Winter 2023

**Teaching Assistant** of McGill Master's course GLIS619 Information Behaviour and Resources  
(Instructor: Dr. Joan Bartlett) Fall 2021

**Guest Lecture** of McGill Master's course INFS626 Usability Analysis & Assess  
(Instructor: Dr. Karyn Moffatt) Winter 2023

## ACADEMIC INVOLVEMENT AND SERVICES

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- Student Volunteer**, ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW'21) Oct. 2021
- Peer Reviewer**: 1 journal article, *Color Research & Application* May 2021
- Organizing Committee Member**, 13<sup>th</sup> EBSI-SIS Symposium on Information Studies Apr. 2021
- Executive Member and Communication Officer**, Association for Information Science & Technology (ASIS&T) McGill Chapter 2020 – 2021
- Community Volunteering**: Tech Café volunteer, The Yellow Door, Montreal, QC (selected as *Volunteer of the Month* for August 2022) Feb. 2022 – Present

## SCHOLARSHIPS AND AWARDS

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- ASSETS'22 Doctoral Consortium Travel Award Oct. 2022  
ACM SIGACCESS
- Best Poster Award in 14<sup>th</sup> EBSI-SIS Student Symposium in Information Studies Apr. 2022  
School of Information Studies, McGill University
- Comprehensive Examination Completion Award Jan. 2021  
School of Information Studies, McGill University
- Graduate Excellence Fellowship 2019 – 2023  
McGill University
- CAMD Graduate Student Scholarship 2015 – 2017  
College of Arts, Media and Design, Northeastern University
- The Second Prize in National University Student Social Practice and Science Contest on Energy Saving & Emission Reduction May 2012  
Taiyuan University of Technology

## SKILLSET

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- Data Analysis and Visualization: R, Processing, JavaScript D3, p5.js + HTML
- Design Tools: Adobe Illustrator/InDesign/Photoshop, Sketch, Rhino + Key Shot, Auto CAD
- Sketching and rapid prototyping
- Languages: fluent English, native Mandarin Chinese, basic French, basic Japanese, basic Korean