Muhe Yang

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EDUCATION

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

ACT Lab, McGill University   Sep. 2019 – Present
Research Assistant & Principle Researcher, Doctoral Research in Human-Computer Interaction
- Doctoral research on designing behavior change technology for older adults 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)

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 research project: Information visualization of seasonal color change in the environment   Jan. 2017 – Jan. 2020
Principle Researcher
  • Master's thesis project: designing visualizations showing how visitors experience seasonal color 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 color change, and wrote a full paper
  • Paper published in a peer-reviewed journal

Taiyuan Jiaofei Geology Information Technology Co., China   Sep. 2017 – Dec. 2018
Designer, Research Assistant
  • Designed, modeled, and developed seism monitoring devices
  • Assisted patent application process

China Industrial Design Institute, Shanghai, China   May–July 2016
Design Intern
  • Assisted organizing *The 1st 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

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

Research Presentations

Yang, M. (2022). Supporting Physical Activity in Later Life: Perspectives from Older Adults. In the Doctoral Consortium 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 14th 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, Northeaster 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

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

ACADEMIC INVOLVEMENT AND SERVICES

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, 13th 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

Graduate Excellence Fellowship   2019 – 2023
McGill University

ASSETS'22 Doctoral Consortium Travel Award   Oct. 2022
ACM SIGACCESS

Best Poster Award in 14th 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

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

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