

Jiamin (Carrie) Dai

POSTDOCTORAL FELLOW, DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF BRITISH COLUMBIA

Human-Computer Interaction | Accessibility | Aging and Dementia | Social Computing

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Current Academic Position

Department of Computer Science, University of British Columbia

NSERC POSTDOCTORAL FELLOW, SUPERVISOR: DR JOANNA MCGRENERE

Vancouver, Canada

Jul 2023 –

Education

McGill University

PHD IN INFORMATION STUDIES, SUPERVISOR: DR KARYN MOFFATT

Dissertation: Enriching Social Sharing for the Dementia Community: Technological Opportunities

Montreal, Canada

May 2023

McGill University

MASTER OF INFORMATION STUDIES (MIST)

Montreal, Canada

May 2017

Shanghai International Studies University

B.SC. IN EDUCATIONAL TECHNOLOGY

Shanghai, China

Jun 2005

Awards

GRANTS, FELLOWSHIPS, & SCHOLARSHIPS

- 2024–26: **2024 AgeTech Advance: Healthy Aging Canada Research Program (HARP)**, Co-Applicant
PI: Dr Joanna McGrenere, Co-PI: Dr Vered Shwartz, CAD88,124
- 2023–25: **Natural Sciences and Engineering Research Council of Canada (NSERC)**, Postdoctoral fellowship, CAD110,833
NSERC nominee for the Alice Wilson Award as highest scoring women fellows pursuing their research in Canada
- 2023–24: **Early Professionals, Inspired Careers in AgeTech (EPIC-AT)**, AGE-WELL and CIHR postdoctoral fellowship, CAD16,000
- 2022: **Mitacs Accelerate Internship**, in partnership with the Bank of Canada, CAD15,000
- 2021–22: **Wolfe Chair Graduate Fellowship**, McGill doctoral dissertation scholarship, CAD7,500
- 2019–22: **Fonds de recherche du Québec – Nature et technologies (FRQNT)**, Provincial doctoral research scholarship, CAD70,000
- 2018–19: **McGill Graduate Excellence Award**, CAD8,000
- 2017–18: **McGill McCall McBain Fellowship**, CAD16,000

TRAVELS & IMPACTS

- 2025: **UBC Postdoctoral Fellows Travel Awards**, CAD2,000
- 2020: **McGill School of Information Studies Travel Awards**, CAD1,000
- 2019: **ACM SIGACCESS ASSETS'19 Doctoral Consortium Travel Grants**, USD2,000
- 2019: **Volunteer of the Year**, Alzheimer Society of Montreal
- 2018: **People's Choice Award and Summer Institute Pitch Award**, AGE-WELL National Impact Challenge

Experience

Department of Electrical and Computer Engineering, McGill University

COLLABORATOR, WITH DR JEREMY R. COOPERSTOCK

Montreal, Canada

Jan – Jun 2023

Bank of Canada

MITACS INTERN (JAN – MAY 2022) / CONSULTANT (OCT 2022 – JUN 2023)

Virtual

Jan 2022 – Jun 2023

Department of Computer Science, University of Toronto

COLLABORATOR, WITH DR KHAI N. TRUONG

Virtual

Jun – Dec 2021

Department of Family Medicine, McGill University

COLLABORATOR / RESEARCH ASSISTANT, WITH DR PIERRE PLUYE

Montreal, Canada

May 2018 – Dec 2021

National Research Council Canada

MASTER'S PRACTICUM, WITH DR DAVID LI TANG

Montreal, Canada

Jan – Apr 2017

School of Information Studies (SIS), McGill University

RESEARCH ASSISTANT, WITH DRS KARYN MOFFATT & TACIANA PONTUAL FALCÃO

Montreal, Canada

2016 – 2017

Visas Consulting Group (Shanghai)

ACCOUNT MANAGER / SENIOR CONSULTANT

Shanghai, China

2005 – 2013

Publications

RIGOROUSLY-REVIEWED CONFERENCE PROCEEDINGS

As is common in computer science, the premier conferences in human-computer interaction, such as ACM CHI, are highly competitive.

- [C11] **Dai, J.** and McGrenere, J. (2025). Envisioning Financial Technology Support for Older Adults Through Cognitive and Life Transitions. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'25)*, 24 pages. doi: 10.1145/3706598.3713427 (Acceptance rate = 1249/5020 = 24.9%)
- [C10] Smith, K., Sien, S-W., **Dai, J.**, and McGrenere, J. (2025). Touching Experiences: How Older Adults Envision Ambient and Tangible Social Technology Through the Lens of Time. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'25)*, 24 pages. doi: 10.1145/3706598.3714302
- [C9] Liu, Z., **Dai, J.**, Conati, C., and McGrenere, J. (2025). Envisioning AI support during semi-structured interviews across the expertise spectrum. *Proc. ACM Hum.-Comput. Interact.* 9, 2, Article CSCW011 (April 2025), 29 pages. doi: 10.1145/3710909
- [C8] Tanprasert, T., **Dai, J.**, and McGrenere, J. (2024). HelpCall: Designing informal technology assistance for older adults via videoconferencing. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'24)*, 1–23. doi: 10.1145/3613904.3642938 (Acceptance rate = 1060/4028 = 26.3%)
- [C7] Marino, D., **Dai, J.**, Fortin, P., Henry, M., and Cooperstock, J. (2024). Co-Here: An expressive videoconferencing module for implicit affective interaction. *Proceedings of the Graphics Interface Conference (GI'24)*, 1–13. doi: 10.1145/3670947.3670975
- [C6] **Dai, J.**, Miedema, J., Hernandez, S., Sutton-Lalani, A., and Moffatt, K. (2023). Cognitive accessibility of digital payments: A literature review. *Proceedings of 20th International Web for All Conference (W4A'23)*, 116–121. doi: 10.1145/3587281.3587294 **Best Communication Paper Nominee**
- [C5] Fontana de Vargas, M., **Dai, J.**, and Moffatt, K. (2022). AAC with automated vocabulary from photographs: Insights from school and speech-language therapy settings. *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS'22)*, 1–18. doi: 10.1145/3517428.3544805 (Acceptance rate = 35/132 = 26.5%) **Best Student Paper & Best Artifact Award**

CONFERENCE PROCEEDINGS - CONTINUED

- [C4] **Dai, J.**, Moffatt, K., Lin, J., and Truong, K. (2022). Designing for relational maintenance: New directions for AAC research. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'22)*, 1-15. doi: 10.1145/3491102.3502011 (Accepted with minor revision = 324/2597 = 12.5%)
- [C3] **Dai, J.** and Moffatt, K. (2021). Surfacing the voices of people with dementia: Strategies for effective inclusion of proxy stakeholders in qualitative research. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'21)*, 1-13. doi: 10.1145/3411764.3445756 (Acceptance rate = 749/2844 = 26.3%)
- [C2] Pang, C., Wang, Z. C., McGrenere, J., Leung, R., **Dai, J.**, and Moffatt, K. (2021). Technology adoption and learning preferences for older adults: Evolving perceptions, ongoing challenges, and emerging design opportunities. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'21)*, 1-13. doi: 10.1145/3411764.3445702
- [C1] **Dai, J.** and Moffatt, K. (2020). Making space for social sharing: Insights from a community-based social group for people with dementia. *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI'20)*, 1-13. doi: 10.1145/3313831.3376133 (Acceptance rate = 647/3126 = 20.7%)

JOURNAL ARTICLES

- [J5] Fontana de Vargas, M., **Dai, J.**, and Moffatt, K. (2024). AAC with automated vocabulary from photographs: Insights from school and speech-language therapy settings. *Commun. ACM* 68, 1 (January 2025), 89–96. doi: 10.1145/3623505. Reprint of [C5] as a CACM Research Highlight.
- [J4] **Dai, J.** and Moffatt, K. (2023). Enriching social sharing for the dementia community: Insights from in-person and online social programs. *ACM Transactions on Accessible Computing (TACCESS)*, 16(1), Article 11 (March 2023), 33 pages. doi: 10.1145/3582558
- [J3] **Dai, J.**, Bartlett, J. C., and Moffatt, K. (2023). Library services enriching community engagement for dementia care: The Tales & Travels Program at a Canadian Public Library as a case study. *Journal of Librarianship and Information Science*, 55(1), 123–136. doi: 10.1177/09610006211065170
- [J2] **Dai, J.** (2020). Empowering people with dementia to share and socialize. *ACM SIGACCESS Accessibility and Computing* (126), Article 3. doi: 10.1145/3386280.3386283
- [J1] **Dai, J.**, Granikov, V., El Sherif, R., Grguric, E., Turcotte, E., and Pluye, P. (2019). Patient Information Aid: An innovative educational program to improve outcomes of online consumer health information. *Education for Information*, 35(1), 41-49. doi:10.3233/EFI-180215

WORKSHOP PROPOSAL & WHITE PAPER

- [W2] **Dai, J.**, Gorman, B. M., Tigwell, G. W., Lyhme, H., Barros Pena, B., Moffatt, K., and Latulipe, C. (2024). accessFinTech: Designing accessible financial technology. *The 26th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS '24)*, 5 pages. doi: 10.1145/3663548.3688551
- [W1] Sutton-Lalani, A., Hernandez, S., Miedema, J., **Dai, J.**, and Omrane, B. (2023). Redefining financial inclusion for a digital age: Implications for a Central Bank Digital Currency. *Bank of Canada Staff Discussion Paper*, 23 pages. doi: 10.34989/sdp-2023-22

POSTER & WORKSHOP ABSTRACTS

- [A4] **Dai, J.** (2023). Designing cognitively accessible online banking to support older adults. *Graphics Interface*, GI'23 Poster
- [A3] **Dai, J.** and Moffatt, K. (2022). Enriching social sharing for the dementia community: Identifying opportunities for technology design. *Graphics Interface*, GI'22 Poster
- [A2] **Dai, J.** and Moffatt, K. (2020). Using proxies in supporting the voice of people with dementia in HCI research. *ACM SIGCHI Conference on Human Factors in Computing Systems*, CHI'20 Workshop, Rethinking Notions of Giving Voice in Design
- [A1] **Dai, J.** and Moffatt, K. (2018). Beyond communication and social interaction: A review on designing for people with dementia. *ACM SIGCHI Conference on Human Factors in Computing Systems*, CHI'18 Workshop, HClxDementia

Teaching

GUEST LECTURES

- Winter 2025, **Designing for Financial, Technological, and Social Inclusion**, UBC Department of Computer Science, CPSC444 Advanced Methods for Human-Computer Interaction
- Fall 2021 & 2022, **HCI Fieldwork in Sensitive Settings: My Experiences & Reflections**, McGill Department of Electrical and Computer Engineering, ECSE424/542 Human-Computer Interaction
- Fall 2020 & 2021, **A Usability Test of an Online Catalogue with Older Adults**, McGill SIS, GLIS626 Usability Analysis & Assessment
- Winter 2021, **User-Centered Design in the Real World: Developing the Online Health Information Aid Website**, McGill SIS, GLIS627 User-Centered Design
- Winter 2020, **Proposals & Scholarship Applications: My Experience**, McGill SIS, GLIS704 Research Design in Information Studies
- Winter & Fall 2019, **Real-Life Information Architecture, Usability Analysis, and User-Centered Design**, McGill SIS, GLIS626 Usability Analysis & Assessment

INVITED TALKS

- May 2024, **Designing Cognitively Accessible Financial Technology to Support Older Adults**, AGE-WELL EPIC Conference 2024, Financial Wellness & Employment Session
- April 2021, **Making Space for Social Sharing: Insights from a Community-Based Social Group for People with Dementia**, EdTeKLA Research Group, Department of Computing Science, University of Alberta

TEACHING ASSISTANT

- Winter 2021, McGill SIS, **GLIS691 Computer Programming for Information Professionals**, Instructor: Dr Karyn Moffatt
- Fall 2018, McGill SIS, **GLIS679 Information Literacy**, Instructor: Dr Joan Bartlett

COMMUNITY OUTREACH

- **Introducing the Online Health Information Aid Website**, Zoom Talks, Internet Peer Cafe, Atwater Library and Computer Centre CONNECT Project, Aug 2020
- **Inspirations and Resources: A Conversation on Technologies for Promoting Social Interaction in Dementia Care**, Workshop, Alzheimer Society Colloquium on Innovations & Assistive Technologies in Dementia Care, Nov 2019
- **Empowering People with Dementia to Socialize**, Huddol Webinar, Oct 2019
- **Technology for Everyone: Designing for Aging and Dementia**, Alzheimer's Cafe Talks, Oct & Nov 2018

Mentoring

DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF BRITISH COLUMBIA

- PhD students: Teerapaun Tanprasert and Zhe Liu (2023–)
- MSc students: Ishita Haque (2023–24) and Kersten Smith (visiting from Université Paris-Saclay, 2024)
- MSc research assistant: Zhuozhuo (Joy) Liu (2025)
- Undergraduate research assistant: Manushree Singhania (2024)

SCHOOL OF INFORMATION STUDIES, MCGILL UNIVERSITY

- Master's research assistant: Diane Hsueh (2023)
- Undergraduate student (Cognitive Science): Charlene Yin (2023)

CONFERENCE MENTORING PROGRAM

- MSc student (Computer Science, University College London): Shurui Wang, first-time author for ASSETS'23

Service

PROGRAM COMMITTEE

- **CHI'24, Associate Chair**, Accessibility and Aging Subcommittee, **1 Special Recognition for Outstanding Reviews**
- **ASSETS'24, Program Committee Member**

REVIEWER

- **CHI**: 12 full papers ('21 '22 '23 '25), 2 late-breaking works ('20 '23), **1 Special Recognition for Outstanding Reviews** ('23, full paper)
- **CSCW**: 3 full papers ('20 '25)
- **TACCESS**: 1 manuscript ('23)
- **Mitacs Accelerate Program**: 2 research proposals ('23 '25)
- **Dementia Lab Conference**: 1 academic paper ('22)

COMMITTEES

- Inter-university: **Organizing Committee Member**, UBC-UVic Hackathon: Vis4All, Feb 2024
- National: **Quebec Representative**, AGE-WELL Highly Qualified Personnel (HQP) Advisory Committee, 2018–19
- Departmental: **PhD Representative**, McGill SIS Curriculum Committee, 2017–18
- Departmental: **Executive Member**, Association for Information Science & Technology (ASIS&T) McGill Chapter, 2017–18
- Departmental: **Executive Member**, Québec Library Association (ABQLA) McGill Chapter, 2015–17

SCHOLARLY VOLUNTEERING

- Panelist, **Thesis Finishers' Roundtable** (Apr 2024) and **Thesis Plus Roundtable** (Aug 2022), McGill Writing Centre
- Contributor, **SSHRC Focus Group** on barriers to accessibility in programs and services, Social Sciences and Humanities Research Council of Canada, Nov 2022
- Accessibility Support Volunteer, **CHI'21** & Assistance to the Accessibility Chairs, **CHI'20**
- Student Volunteer, **CSCW'20**, **CHI'18**, **WWW'16**

COMMUNITY VOLUNTEERING

- Registered Volunteer, **Alzheimer Society of British Columbia**, 2023–
- Registered Volunteer, **Alzheimer Society of Montreal**, 2018–21
- Tales & Travels Series Volunteer, **Westmount Public Library**, 2018–21
- Circulation Desk Volunteer, **Atwater Library and Computer Centre**, 2016–17
- Volunteer Guide & Cataloguer, **Château Ramezay Museum**, 2015–18