

Ge (Tiffany) Wang

DPhil (Ph.D) in Computer Science
Department of Computer Science
University of Oxford

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EDUCATION & TRAINING

- Ph.D. **Computer Science, University of Oxford, Oxford, 2019–24**
Data Autonomy in the Age of AI: Designing Autonomy-Supportive Data Tools for Children & Families
Supervisors: Sir Nigel Shadbolt, Jun Zhao, Examiners: Victoria Nash, Yvonne Rogers
- M.S. **Information Science, University College London, London, 2017–18**
Towards A More Holistic Approach in Entity Resolution with Active Learning Algorithms
Distinction, Ranked 1st in Class
- B.A. **Physics, University of Oxford, Oxford, 2014–17**
Bachelor of Arts with Honours

PROFESSIONAL EXPERIENCE

- 2019–24 **Graduate Student Researcher**
Department of Computer Science, University of Oxford. Projects involved:
Ethical Web and Data Architecture (Mentor: Sir Tim Berners-Lee, Oxford Martin School)
Autonomy and Technology Project (Mentor: Ekaterina Hertog, Institute for Ethics in AI)

RESEARCH AREAS

Human-Computer Interaction • Human-centered Artificial Intelligence • Responsible Technology
Usable Privacy & Security • Human-Data Interaction
Human & Machine Teaching • Artificial Intelligence & Education

AWARDS AND HONORS

- 2024 Best Paper Honourable Mention Award, ACM CHI
- 2023 Best Paper Award, ACM CHI
- 2023 Best Paper Honourable Mention Award, ACM CHI
- 2023 Special Recognitions for Outstanding Reviews, ACM CHI
- 2023 MPLS Impact Award (shortlist), Oxford
- 2022 Best Paper Honourable Mention Award, ACM CSCW
- 2022 Impact Recognition Award, ACM CSCW
- 2022 Honourable Mention Award, 11th UK Doctoral Researcher Awards (DRA)
- 2022 Best Paper Honourable Mention Award, ACM CHI
- 2022 Winner of the Student Paper Award of the FPF Privacy Papers for Policymakers

- 2018 Best Dissertation Award, UCL
- 2018 MSc Award in Information Science, UCL
- 2014 Fung Scholarship, Oxford (up to ten fung scholars are nominated each year)

GRANTS

- 2023 REsponsible AI for Children of Today, REACT (\$95K)
Co-author on grant proposal, listed as key researcher
Under review, UKRI RAI UK International Partnerships
- 2023 Children’s Agency In the age of AI: Leveraging InterDisciplinarity, CHAILD (\$400K)
Co-author on grant proposal, listed as key researcher
Initial round successful, invited for full proposal. UKRI Cross Research Council Responsive Mode


PUBLICATIONS

Top-tier venues in computer science and human-computer interaction research appear at ACM conferences such as CHI (h5-median: 174) and CSCW (h5-median: 113). They are highly selective venues and intended for archival papers only. These conferences often exceed journals in their selectivity, visibility, and impact. Submissions undergo multiple rounds of review before being accepted for publication. In 2018, CSCW transitioned to a hybrid journal structure and renamed itself Proceedings of the ACM on Human-Computer Interaction. CSCW (PACMHCI: CSCW). * indicates co-first author. † indicates corresponding author. ‡ indicates a student I mentored




Manuscripts Under Review

- 2024 **Ge Wang**, Roy Pea. “Algorithmic Autonomy in Data-Driven AI.”
[M5] *Nature Machine Intelligence*.
- 2024 Yumeng Zhu‡, **Ge Wang**, Yan Li. “Early Adolescents’ Willingness to Disclose Personal Data on Video
[M4] Platforms: the Magic of Habits and Trust.” *Telematics and Informatics*.
- 2024 Zhilin Zhang‡, Jun Zhao, **Ge Wang**, Samantha-Kaye Johnston, George Chalhoub, Diyi Liu, Tala Ross,
[M3] Claudine Tinsman, Rui Zhao, Max Van Kleek, and Nigel Shadbolt. “Trouble in Paradise? Understanding Mastodon Admin’s Motivations, Experiences, and Challenges Running Decentralised Social Media.” *CSCW 2024, Minor Revision*.
- 2024 Yumeng Zhu*‡, **Ge Wang***, Jun Zhao, Yan Li. “It’s like how mom cooks for you, tell her nothing,
[M2] you only get chicken soup.’ : Understanding Children’s Perception of Datafication Online in China.” *International Journal of Human-Computer Interaction, R&R*.
- 2024 Samantha-Kaye Johnston, Mireia Vendrell Moranco, Jun Zhao, **Ge Wang**. “Cultivating AI literacy
[M1] through digital autonomy: Empowering students and teachers as co-creators of AI in education.” *Computers and Education: Artificial Intelligence, R&R*.

Refereed Conference, Journal and PACM (Conference-Journal Hybrid) Papers

- 2024 **Ge Wang**, Jun Zhao, Samantha-Kaye Johnston, Zhilin Zhang‡, Max Van Kleek, and Nigel Shadbolt.
[P14] “CHAITok: A Proof-of-Concept System Supporting Children’s Sense of Data Autonomy on Social Media.” doi:10.1145/3613904.3642294
ACM Conference on Human Factors in Computing Systems (CHI’24).
 **Best Paper Honourable Mention Award**

- 2024 [P13] **Ge Wang**, Jun Zhao, Konrad Kollnig, Adrien Zier†, Blanche Duron‡, Zhilin Zhang‡, Max Van Kleek, and Nigel Shadbolt.
“KOALA Hero Toolkit: A New Approach to Mobile Datafication Risks for Families.” doi:10.1145/3613904.3642283
ACM Conference on Human Factors in Computing Systems (CHI’24).
- 2024 [P12] Ayça Atabey, **Ge Wang**†, Samantha-Kaye Johnston, Grace C Lin, Cara Wilson, Lachlan Urquhart, Jun Zhao.
“The Second ACM CHI Workshop on Child-Centred AI Design (CCAI).” doi:10.1145/3613905.3636305
ACM Conference on Human Factors in Computing Systems Extended Abstract (CHI EA’24).
- 2024 [P11] **Ge Wang**, Jun Zhao, Max Van Kleek, and Nigel Shadbolt.
“Challenges and Opportunities in Translating AI Principles into Practice for Children.” doi:10.1038/s42256-024-00805-x
Nature Machine Intelligence.
- 2023 [P10] **Ge Wang**, Kaiwen Sun, Ayça Atabey, Zhen Bai, Grace C Lin, Jason C Yip, Jun Zhao.
“Special Issue on Child-Centred AI: A Special Issue Proposal for International Journal of Human–Computer Studies.”
International Journal of Human-Computer Studies (IJHCS).
- 2023 [P9] **Ge Wang**, Jun Zhao, Max Van Kleek, and Nigel Shadbolt.
“Treat me as your friend, not a number in your database: Co-designing with Children to Cope with Datafication Online.” doi:10.1145/3544548.3580933
ACM Conference on Human Factors in Computing Systems (CHI’23).
 **Best Paper Award**
- 2023 [P8] **Ge Wang**, Jun Zhao, Max Van Kleek, and Nigel Shadbolt.
“12 Ways to Empower: Designing for Children’s Digital Autonomy.” doi:10.1145/3544548.3580935
ACM Conference on Human Factors in Computing Systems (CHI’23).
 **Best Paper Honourable Mention**
- 2023 [P7] **Ge Wang**, Kaiwen Sun, Ayça Atabey, Kruakae Pothong, Grace C Lin, Jun Zhao, Jason C Yip.
“Child-Centred AI Design: Definition, Operation, and Considerations.” doi:10.1145/3544549.3573821
ACM Conference on Human Factors in Computing Systems Extended Abstract (CHI EA’23).
- 2022 [P6] Jun Zhao, Blanche Duron‡, **Ge Wang**.
“KOALA Hero: Inform Children of Privacy Risks of Mobile Apps.” doi:10.1145/3501712.3535278
ACM Conference on Interaction Design and Children Extended Abstract (IDC EA’22).
- 2022 [P5] **Ge Wang**, Jun Zhao, Max Van Kleek, and Nigel Shadbolt.
“‘Don’t make assumptions about me!’: Understanding Children’s Perception of Datafication Online.” doi:10.1145/3555144
Proceedings of the ACM: Human-Computer Interaction, Computer-Supported Cooperative Work and Social Computing (PACMHCI: CSCW).
 **Best Paper Honourable Mention Award**  **Impact Recognition Award**

- 2022
[P4] **Ge Wang**, Jun Zhao, Max Van Kleek, and Nigel Shadbolt.
“Informing Age-Appropriate AI: Examining Principles and Practices of AI for Children.”
doi:10.1145/3491102.3502057
ACM Conference on Human Factors in Computing Systems (CHI’22).
 **Best Paper Honourable Mention Award**  **UK Doctoral Researcher Award, Honourable Mention**
- 2021
[P3] **Ge Wang**, Jun Zhao, Max Van Kleek, and Nigel Shadbolt.
“Protection or Punishment? Relating the Design Space of Parental Control Apps and Perceptions about Them to Support Parenting for Online Safety.” doi:10.1145/3476084
Proceedings of the ACM: Human-Computer Interaction, Computer-Supported Cooperative Work and Social Computing (PACMHCI: CSCW).
- 2021
[P2] Konrad Kollnig, Reuben Binns, Pierre Dewitte, Max Van Kleek, **Ge Wang**, Daniel Omeiza, Helena Webb, Nigel Shadbolt.
“A Fait Accompli? An Empirical Study into the Absence of Consent to Third Party Tracking in Android Apps.” doi:10.5555/3563572.3563582
Symposium on Usable Privacy and Security (SOUPS’21).
 **Student Paper Award**
- 2019
[P1] Jun Zhao, **Ge Wang**, Carys Dally, Petr Slovak, Julian Edbrooke-Childs, Max Van Kleek, and Nigel Shadbolt.
“‘I make up a silly name’: Understanding Children’s Perception of Privacy Risks Online.”
doi:10.1145/3290605.3300336
ACM Conference on Human Factors in Computing Systems (CHI’19).

Refereed Workshop Papers, Posters, and Demos (Lightly Peer-reviewed)

- 2022
[W3] **Ge Wang**, Jun Zhao, Max Van Kleek, and Nigel Shadbolt.
“Unpacking Parental Control Apps for Online Safety.”
Symposium on Usable Privacy and Security (SOUPS) Poster.
- 2022
[W3] **Ge Wang**, Jun Zhao.
“What They Say and What They Do: The Need to Unpack the Datafication Practices in Children’s Recommendations.”
IDC KidRec Workshop.
- 2022
[W3] **Ge Wang**, Jun Zhao.
“Ethical Considerations on Positioning the Normative Stance when working with Children.”
IDC Ethical Considerations of Distributed Participatory Design with Children Workshop.

Reports and Other Publications

- 2023
[R5] **Ge Wang**, Kaiwen Sun, Ayça Atabey, Kruakae Pothong, Grace C Lin, Jason C Yip, Jun Zhao, Beeban Kidron and all CCAI 2023 workshop participants.
“Hamburg Declaration: Towards a Child-Centered AI Future.”
- 2022
[R4] Jun Zhao, **Ge Wang**.
“Response to public consultation for the Online Safety Bill By the UK Parliament.”
- 2021
[R3] **Ge Wang**, Jun Zhao, and Nigel Shadbolt.
“Datafied Childhood: How Children Perceive Datafication Risks Around Them.”
KOALA Project Report.

- 2019 **Ge Wang**, Jun Zhao, and Nigel Shadbolt.
 [R2] “What concerns do Chinese parents have about their children’s digital adoption and how to better support them?”
KOALA Project Report.
- 2019 **Ge Wang**, Jun Zhao, and Nigel Shadbolt.
 [R1] “Are Children Fully Aware of Online Privacy Risks and How Can We Improve Their Coping Ability?”
KOALA Project Report.

Thesis and Dissertation

- 2023 **Ge Wang**.
 [T2] “Data Autonomy in Age of AI: Designing Autonomy-Supportive Data Tools for Children & Families.”
D.Phil Thesis, Oxford Computer Science.
- 2018 **Ge Wang**.
 [T1] “Towards A More Holistic Approach in Entity Resolution with Active Learning Algorithms.”
MSc Dissertation, UCL Information Science.
🏆 Best Dissertation Award

SERVICE

Programme Committees

Program Committee, *ACM CSCW* 2024
 Program Committee, *ACM FAccT* 2024
 Program Committee, *ACM CHI Late-Breaking Work (LBW)* 2024
 Program Committee, Contact Organiser, *ACM CHI Workshop on Child-Centred AI* 2024
 Lead Author on Special Issue Proposal, *IJHCS Special Issue on Child-Centred AI* 2024
 Program Committee, *ACM CSCW Posters* 2023
 Program Committee, Lead Organiser, *ACM CHI Workshop on Child-Centred AI* 2023
 Program Committee, *ACM CHI Late-Breaking Work (LBW)* 2023
 Assistant Workflow Chair, *ACM IJCAI* 2023

Operations Committees

Student Volunteer, *ACM CHI* 2023
 Student Volunteer, *ACM CHI PLAY* 2023
 Student Volunteer, *ACM SOUPS* 2022
 Student Volunteer, *ACM CSCW* 2022
 Student Volunteer, *ACM CHI* 2022
 Organising Committee, *Oxford HCC Symposium* 2021

Paper Reviewing

Interacting with Computers

CHI 19, 20, 21, 22, 23, 24 **🏆 Special Recognitions for Outstanding Reviews**

CSCW 19, 20, 21, 22, 23, 24

CHI PLAY 22, 23

IDC 22, 23

COURSES TAUGHT

University of Oxford, Department of Computer Science

Undergraduate Course: Requirements.

Class Tutor. Independent teaching. Conducted weekly tutorials, fostering in-depth discussions among a small group of students on the week's readings or problems. Monitor students' progress closely and crafted personalised learning plans for every tutee. **Nominated for Teaching Award**

Undergraduate Course: Ethical Computing in Practice.

Class Tutor. Independent teaching. Designed and executed an 8-week class curriculum including the course material and worksheets, complementing the main lecture content.

Postgraduate Course: Requirements in Computing.

Teaching Assistant. Oversaw lecture slides, group discussions, assignments, exams, and final projects.

University of Oxford, Department of Engineering

Postgraduate Course: Interaction Design.

Teaching Assistant. Oversaw lecture slides, group discussions, assignments, exams, and final projects.

STUDENTS MENTORED

Zhilin Zhang, PhD student (Department of Computer Science, University of Oxford)

First Year Graduate Term Paper.

Accepted paper at CHI'24, Paper under review at CSCW'24

Yumeng Zhu, PhD student (Department of Education, Zhejiang University)

Visiting Student Project.

Papers under review at IJHCI, Telematics and Informatics

Sydney Charitos, PhD student (School of Engineering Mathematics and Technology, University of Bristol)

EWADA Project Summer Internship.

Lily Sowden, Undergraduate student (Department of Computer Science, University of Oxford)

Final Year Student Project.

Adrien Zier, Master student at (Department of Computer Science, University of Edinburgh)

EWADA Project Summer Internship.

Accepted paper at CHI'24

Sian Saul, Undergraduate student (Department of Computer Science, University of Oxford)

Final Year Student Project.

Blanche Duron, Master student (School of Communication Systems, EPFL)

KOALA Project Summer Internship.

Accepted paper at CHI'24

CS Undergraduate Group Design Mentor, University of Oxford.

INVITED TALKS AND MEDIA COVERAGE

2024/04 Interview with Hello Future to discuss an article on ethical AI principles for children.

- 2024/03 Coverage of the Nature Machine Intelligence Paper as reported on Oxford University's website.
- 2024/03 Research Seminar at Carnegie Mellon University, Human-Computer Interaction Institute, and Department of Engineering and Public Policy.
- 2024/03 Research Seminar at Max Planck Institute for Software Systems.
- 2024/02 Research Seminar at Georgia Institute of Technology, School of Literature, Media and Communication.
- 2024/01 Interview with El Pais to discuss an article on datafication and parental control apps.
- 2023/06 Oxford Inspired Research Newsletter (Summer 2023, Issue 23)
- 2023/05 Invited Talk on Child-Centred AI: Design and Considerations. Carnegie Mellon University.
- 2023/04 Opening Speech on Child-Centred AI: Design and Considerations. ACM CHI CCAI Workshop.
- 2022/08 Invited Talk on Designing for Families' Data in the Age of AI. MIT.
- 2022/07 Invited Talk on Age-Appropriate AI: Gaps, Challenges and What May Future Look Like. Oxford MPLS Science Together Forum.
- 2022/04 Invited Talk on Age-Appropriate AI: Gaps, Challenges and What May Future Look Like. Venice Colloquium.
- 2022/03 Invited Talk on Better Internet Safety for Kids. Oxford Science and Ideas Festival.
- 2022/02 Led a 6-week app development workshop for underprivileged youth, culminating in the creation of a prototype app for their local youth centre. Leys-Oxford App Club.
- 2022 In a report by the US Federal Trade Commission (FILED 11/17/2022 OSCAR NO 606208), our research has been cited to support their call for attention to support younger children and tackle the misplaced emphasis on relying on parents to safeguard children at all times.
- 2020 In a report published by the Office of the Australian Information Commissioner, our research has been cited to support their call for attention on privacy risks and harms for children.
- 2020/12 Oxford Inspired Research Newsletter (Winter 2020, Issue 17).
- 2019 In a 2019 report published by the Council of Europe, our research has been cited to support their call for new children's data protection in education system.

REFERENCES

Sir Nigel Shadbolt FRS FREng FBCS (doctoral supervisor, PI)
 Professor of Computing, Theme Head of Human Centred Computing, Principal of Jesus College
 University of Oxford
nigel.shadbolt@cs.ox.ac.uk

Sir Tim Berners-Lee OM KBE FRS FREng FRSA DFBCS RDI (PI)
 Professor of Computing
 University of Oxford, Massachusetts Institute of Technology
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