

DR CHENLIZHE (MARK) YANG

Interdisciplinary Design Researcher · Sustainable Mobility & Service Design

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RESEARCH PROFILE

Design researcher with a PhD from Monash University, specialising in research through design, participatory design and service design for sustainability transitions. Research connects sustainable mobility, user experience and human-computer interaction (UX/HCI) with the social and organisational conditions shaping service adoption. Combines qualitative interviews, thematic analysis, co-design workshops and iterative prototyping to investigate human-centred digital services and sociotechnical systems. Experience spans academic publication, university teaching, industrial design, public exhibition and cross-sector engagement.

RESEARCH INTERESTS

Sustainable mobility and Mobility-as-a-Service (MaaS); participatory and speculative design; UX/HCI; service design; inclusive digital services; sociotechnical systems; sustainability transitions and Net Zero precincts.

EDUCATION

Monash University

Melbourne, Australia

Doctor of Philosophy (PhD) in Design

2022 – 2026

Thesis: *“Envisioning Future Mobility: Co-developing Campus-Based Mobility as a Service with International Students”* — [Full thesis \(Monash Bridges, DOI: 10.26180/33716752\)](https://monashbridges.org/theses/10.26180/33716752)

Supervisors: Assoc. Prof. Selby Coxon, Dr Dion Tuckwell, Dr Emma Quilty.

Practice-based doctoral research investigated how participatory and speculative service design can support sustainable travel among international student drivers at Monash’s Clayton and Caulfield campuses. Combined research through design with qualitative inquiry and co-design to develop early MaaS service and interface concepts. Examined relationships between users’ travel practices, digital interactions and the wider mobility service system. Research activities and outputs are detailed under Research Projects.

Monash University

Melbourne, Australia

Bachelor of Design (First-Class Honours)

2021

Honours dissertation: *“How might a redesigned telemedicine ecosystem for elderly interventions optimise the efficiency and acceptability of in-home health monitoring?”*

First Class Honours research explored a redesigned telemedicine ecosystem for older people, focusing on the efficiency and acceptability of in-home health monitoring. Integrated industrial design research, research documentation and creative sustainability to examine relationships between users, technology and service provision.

Key units: Major Design Research Project (Industrial Design), Design Research Methods, Design Research Documentation, Creative Sustainability. Portfolio: [MADA NOW 2021](#).

Monash University

Melbourne, Australia

Bachelor of Industrial Design

2018 – 2020

Developed an industrial design foundation connecting design history and critical inquiry with sustainable products and everyday use. Written research examined design responsibility, consumption habits and the continuing influence of Bauhaus principles on design and architecture.

Undergraduate dissertations: *“Bauhaus design features and their ongoing influence in contemporary design and architecture”* (2018); *“To what extent can designers be held accountable for sustainable practices?”* (2019); *“How can design make sustainable products more acceptable in daily consumption by influencing habits?”* (2020).

Portfolio: [MADA NOW 2020](#).

RESEARCH PROJECTS

Doctoral Mobility-as-a-Service Research

2022 – 2026

Monash University · PhD research · Clayton and Caulfield campuses

- **Research focus:** co-developed campus-based MaaS concepts with international student drivers to explore reduced car dependency and sustainable multimodal travel.
- **Approach:** research through design, participatory and speculative service design, qualitative interviews, thematic analysis, and co-design workshops to connect lived travel experiences with service and interface concepts.
- **Design contribution:** developed early-concept user interfaces and service propositions; used journey mapping and service blueprints to articulate interactions, touchpoints and the wider service ecosystem.
- **Outputs and dissemination:** doctoral thesis, peer-reviewed papers, conference presentations, public workshops and exhibition contributions, listed in the relevant sections of this CV.

Collaboration context: the ARC Net Zero Precinct collaboration provides the umbrella context for related sustainability research. It is not listed as an independently awarded grant or an additional standalone project.

Go Green! Monash — Participatory Digital Mobility Platform Design

Lead UX/UI Designer and Design Researcher

2024 – 2026

Design and prototyping component of the doctoral MaaS research above, supported through Monash University doctoral research. Research prototype with no separate commercial development budget.

- **Platform concept:** developed an early-stage MaaS concept with international students as co-designers, combining multimodal journey planning, community participation, rewards and personalised carbon feedback to support lower-carbon commuting.
- **UX/UI design:** translated qualitative and participatory research into interface concepts and iterative prototypes exploring how digital interactions can support sustainable travel choices.

RESEARCH SKILLS AND COMPETENCIES

- **Research through design:** practice-based inquiry, participatory and speculative design, problem framing, concept development, iterative prototyping and reflection on design processes and outputs.
- **Qualitative research:** participant recruitment, semi-structured interview design and facilitation, thematic analysis, synthesis and reporting; translating participant accounts into design questions and service requirements.
- **Co-design and participation:** planning and facilitating workshops, preparing activities and materials, supporting discussion across different viewpoints, and synthesising participant contributions.
- **Service design and UX/HCI:** user journeys, service blueprints, ecosystem maps, personas and concept testing; linking user needs and digital touchpoints with organisational processes and operational constraints.
- **Sustainable mobility and sociotechnical systems:** examining travel practices, MaaS adoption and car dependency in relation to users, technologies, institutions and service provision.
- **Research delivery and communication:** coordinating activities, timelines and documentation; academic writing, visual communication, stakeholder engagement and interdisciplinary collaboration.
- **Ethics and responsible practice:** ethics-informed participant engagement, consent processes and participant data governance in community and public-facing research.

ICT AND SOFTWARE SKILLS

Figma · SolidWorks · Microsoft Office

PEER-REVIEWED PUBLICATIONS

- Yang, C. (2026). *Enhancing Sustainable Mobility: A Participatory Design Approach to Co-Develop Early-Concept User Interfaces of a Mobility-as-a-Service Digital Platform with International Student Drivers*. In *Proceedings of the Participatory Design Conference 2026, Vol. 2: Exploratory Papers and Doctoral Colloquium (PDC 2026)*, 15–19 June 2026, Milan, Italy. ACM, New York, NY, USA.
<https://doi.org/10.1145/3789492.3796440>
- Yang, C. (2025). *Enhancing Sustainable Campus Mobility through Participatory Action Research: Co-Developing a MaaS Platform with International Students*. In *Proceedings of the Asian Design and Innovation Conference (ADIC)*, Shanghai, China. [Design Society publication](#).

CONFERENCE PRESENTATIONS AND SYMPOSIA

- Yang, C. (2026). *PDC 2026, Milan, Italy, 15–19 June 2026. Presentation of the MaaS participatory design paper listed under Peer-Reviewed Publications*.
- Yang, C. (2025). *“Enhancing Sustainable Mobility: Participatory Design with International Student Drivers.”* AutomotiveUI '25 Doctoral Colloquium, Brisbane, Australia.
- Yang, C. (2025). *“Enhancing Sustainable Mobility: Participatory Design with International Student Drivers.”* Asian Design and Innovation Conference (ADIC), Shanghai, China.
- Yang, C. (2025). *“Enhancing Sustainable Mobility: Participatory Design with International Student Drivers.”* Intelligent Transport Systems – Mobility 2025, Sydney, Australia. [ITS Mobility 2025](#).
- Yang, C. (2024). *“Enhancing Sustainable Mobility: Participatory Design with International Student Drivers.”* Australian Transport Research Forum (ATRF) – PhD Research Student Symposium, Melbourne, Australia. [ATRF 2024 Program](#).
- Yang, C. (2024). *“Design Workshop of the Future Sustainable Mobility-as-a-Service (S-MaaS) Platform.”* Net Zero Showcase: Clayton Living Lab Experiments in Action, Monash Sustainable Development Institute, Melbourne, Australia. [MSDI news](#).

EXHIBITIONS AND PUBLIC RESEARCH DISPLAY

Melbourne Design Week 2026

14–24 May 2026

“Navigating Clayton’s Sustainable Future: Exploring New Journeys through Design, Mobility and Community”

Monash Caulfield Library, Melbourne

Contributing researcher and exhibitor in a public exhibition presented as part of the 10th anniversary edition of Melbourne Design Week (theme: *“Design the world you want”*). The exhibition shared doctoral research outputs on sustainable campus mobility, participatory design methods, and Mobility-as-a-Service (MaaS), situating the research within broader community conversations on the sustainable future of the Clayton precinct. [Event page](#).

PROFESSIONAL EXPERIENCE

Monash University

Melbourne, Australia

Sessional Lecturer, RED 2026

June – August 2026

- Delivered workshop-based teaching across two Research, Experimentation and Discovery (RED) units — MON2500 and MON3500 — at Monash University's Clayton campus, Winter Semester, 2026.
- Achieved strong Student Evaluation of Teaching Unit (SETU) outcomes: 100/100 (Very High band) for MON2500 and 81/100 (High band) for MON3500, against an average FREE Unit score of 82/100.

Faurecia Emissions Control Technologies Development (Shanghai) Co., Ltd.

Shanghai, China

Industrial Designer (Intern), Clean Mobility Lab

July – December 2021

- Contributed to animation and workshop initiatives within Faurecia's Clean Mobility Lab, supporting the communication of sustainable powertrain and emissions concepts.
- Collaborated with interdisciplinary teams to fabricate prototypes using advanced digital fabrication equipment in the in-house Fab Lab.
- Designed and facilitated creativity sessions and design workshops for cross-functional teams.
- Established and documented the configuration of Fab-Lab machinery, including 3D printers, laser cutters, and manually operated tooling.

PUBLIC ENGAGEMENT AND RESEARCH DISSEMINATION

Invited Organiser and Facilitator

May 2024 & May 2025

Melbourne Design Week Roundtable Workshops

Melbourne, Australia

Invited to organise and lead two public-facing roundtable workshops as part of Melbourne Design Week, sharing preliminary insights from doctoral research and fostering broader public discussion on sustainable mobility futures.

[2024 event](#) | [2025 event](#).

Invited Panellist

29 May 2024

Bridging Disciplines: How to Build Interdisciplinary Collaborations

Monash Graduate Association

Contributed to a Monash Graduate Association panel exploring the value and challenges of interdisciplinary research, offering practical insights for graduate students seeking to strengthen research through cross-disciplinary collaboration. [Recording](#).

Selected Participant, Monash PITCH 2024

September 2024

PhD Interdisciplinary Team CHallenge

Monash University Malaysia

Selected as one of 60 high-performing PhD students from across Monash's faculties and campuses to participate in the second iteration of Monash PITCH. The interdisciplinary challenge fostered creative collaboration, international dialogue, and peer learning across research domains. [Programme details](#).

REFERENCES

Associate Professor Selby Coxon

Monash University

Co-Director, Mobility Design Lab · Selby.Coxon@monash.edu · [profile](#)

Associate Professor Robbie Napper

Monash University

Director, Mobility Design Lab · Robbie.Napper@monash.edu · [profile](#)

Dr Dion Tuckwell

Monash University

Lecturer, Department of Design · Dion.Tuckwell@monash.edu