

JEFFERSON K. RAJAH

Full Curriculum Vitae

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RESEARCH PROFILE

I am a social researcher and system dynamics modeller studying how human behaviour and stakeholder perspectives can be represented within dynamic models of complex socio-technical systems. My work draws on social and behavioural theory, as well as empirical and experiential knowledge, to examine how actors interpret changing system conditions and adapt their behaviour – thereby altering system behaviour and policy outcomes. I translate these processes into dynamic models of climate, food, and health systems using participatory modelling and system dynamics simulation to support model-based policy analysis under uncertainty.

ACADEMIC APPOINTMENTS

2023–Present. **PhD Research Fellow**, System Dynamics Group, Department of Geography, University of Bergen, Norway.

EDUCATION

2027. **PhD** in System Dynamics, University of Bergen, Norway (expected).
Thesis: Bringing People into Integrated Human-Climate Models: A Systems Thinking and Modelling Approach to Representing Endogenous Dietary Behavioural Change (submission: Nov 2026; defence: Mar 2027).
2022. **MPhil** in System Dynamics, University of Bergen, Norway.
2019. **BA (Honours with Highest Distinction)** in Global Studies and Political Science (double major), National University of Singapore, Singapore.

PUBLICATIONS

Overall publication record: 12 peer-reviewed publications, comprising 11 journal articles (5 as first author) and 1 co-first-authored book chapter. More than 120 citations and an h-index of 7 on Google Scholar as of August 2026.

*Corresponding author | †Co-first author/equal contribution

Peer-Reviewed Journal Articles

2026. Wells CD*, Blanz B, Ramme L, Breier J, Callegari B, Muralidhar A, **Rajah JK**, Lindqvist AN, Eriksson AE, Schoenberg WA, Köberle AC, Wang-Erlandsson L, Mauritzen C, Grimeland MB, Smith C. [The representation of climate impacts in the FRIDAv2.1 Integrated Assessment Model](#). *Geoscientific Model Development* 19(3): 1229–1260.
2026. **Rajah JK**, Kopainsky B, Schoenberg W*. [Using Loops That Matter for Feedback Analysis: A Structured Curriculum for Building Systems Understanding](#). *System Dynamics Review* 42(1): e70018.
2026. Hulme A*, Radley D, Brown A, **Rajah JK**, Kopainsky B, Crielaard L, Koorts H, Nobles J. [The Qualitative Systems Exploration Model \(QSEM\): A New Framework to Support the Structural Analysis of Causal Loop Diagrams Within Participatory System Dynamics](#). *System Dynamics Review* 42(1): e70015.
2025. Schoenberg W*, Blanz B, **Rajah JK**, Callegari B, Wells C, Breier J, Grimeland MB, Lindqvist AN, Ramme L, Smith C, Li C, Mashhadi S, Muralidhar A, Mauritzen C. [An overview of FRIDA v2.1: a feedback-based, fully coupled, global integrated assessment model of climate and humans](#). *Geoscientific Model Development* 18(21): 8047–8069.
2025. Loo PS*, **Rajah JK**, Herrera de Leon H, Kopainsky B, Milano L. [A simulation-based policy analysis of anticipatory action for cholera outbreaks, Democratic Republic of the Congo](#). *Bulletin of the World Health Organization* 103(10): 607–618.
2025. **Rajah JK***, Blanz B, Kopainsky B, Schoenberg W. [An endogenous modelling framework of dietary behavioural change in the fully coupled human-climate FRIDA v2.1 model](#). *Geoscientific Model Development* 18(18): 5997–6022.
2025. Aguiar A*, **Rajah JK**, Conway-Moore K, Savona N, Knai C, Vlad I, Samdal O, Rutter H, Lien N, Kopainsky B. [Converging perspectives on the processes exacerbating adolescent obesity: an integrative systems approach](#). *Social Science & Medicine* 367: 117706.
2025. **Rajah JK***, Kopainsky B. [A systematic method to integrate co-produced causal loop diagrams based on feedback stories](#). *System Dynamics Review* 41(1): e1794.
2024. **Rajah JK***, Atkins AEP, Tang C, Bax K, Wilkerson B, Fernald AG, Langarudi SP. [Understanding Hydrologic, Human, and Climate System Feedback Loops: Results of a Participatory Modeling Workshop](#). *Water* 16(3): 396.

2024. Johannis AA*, Heng MA, Baildon MC, **Rajah JK**. Time to negotiate Singapore's meritocracy? Getting ready for the future of work and education. *Globalisation, Societies and Education* 22(5): 839–855.
2023. **Rajah JK**, Chernicoff W, Hutchison CJ, Gonçalves P, Kopainsky B*. Enabling Mobility: A Simulation Model of the Health Care System for Major Lower-Limb Amputees to Assess the Impact of Digital Prosthetics Services. *Systems* 11(1): 22.

Book Chapters

2022. Lim AC*†, **Rajah JK**†, Sng JWM, Kuan YH. EDI in Singapore: emerging issues with sexual and gender minorities and people living with HIV. In Klarsfeld A, Knappert L, Kornau A, Ng ES, Ngunjiri FW (eds.) *Research Handbook on New Frontiers of Equality and Diversity at Work: International Perspectives*. Edward Elgar Publishing, Northampton, 198–216.

Manuscripts in Progress

Revisions Following Peer Review

- Helliwell R†, **Rajah JK***†, Sonnino R, Forney J, Menendez H, Kopainsky B. Re-thinking transformation: Integrating assemblage and systems thinking to advance sustainable food systems. *Sustainability Science*.
- Gkini C*, **Rajah JK**, Nedelciu CE, Kopainsky B. Just Enough? Incorporating Questions on Social Justice for a More Ethical System Dynamics Modeling Process. *System Dynamics Review*.
- Mohammad M, **Rajah JK**, Rouwette E, Kopainsky B, Schoenberg W*. Designing the FRIDA Interactive Learning Environment for Exploring the Dynamics of the Coupled Global Human-Climate System. *Simulation & Gaming*.

Under Initial Peer Review

- **Rajah JK***, Hutchison CJ, Chernicoff W, Gonçalves P, Kopainsky B. Expanded Digital Prosthetic Services: Health Policy Insights from a System Dynamics Simulation Model. *BMC Health Services Research*.
- **Rajah JK***, Lindqvist AN, Putranti T, Bremer S, Kopainsky B. Collaborative quality assessment of simulation-based interactive learning environments for climate education. *Educational Technology Research and Development*.
- Adakudlu M, Mauritzen C*, Wells CD, Blanz B, Schoenberg W, Callegari B, Breier J, **Rajah JK**, Ramme L, Lindqvist AN, Köberle AC, Eriksson AE, Smith C. The role of climate-society impacts in an Integrated Assessment Model: feedbacks, cascades and interdependencies. *Earth System Dynamics*.
- **Rajah JK***, Schoenberg W, Blanz B, Kopainsky B. Endogenous behavioural change in global dietary demand: Implications for demand-side mitigation. *Global Environmental Change*.

In Preparation for Submission

- Schoenberg W*, **Rajah JK**, Wells C, Collste D, Callegari B, Blanz B, Lindqvist AN, Köberle A, Kopainsky B. From accelerating growth to biophysical brakes: The processes that shape the future of global human & Earth System.
- Hulme A*, Tapp C, Wright E, Charlson F, Hopkins T, Kopainsky B, **Rajah JK**. Projecting regional psychology workforce capacity and mental health treatment access to 2050: A system dynamics study in southern Queensland, Australia.
- Breier J*, Ramme L, **Rajah JK**, Wells CD, Gerten D, Wang-Erlandsson L, Smith C, Mauritzen C, Schoenberg W. Introducing FRIDA-Simbios, the simple biosphere module of the FRIDA v2.1 integrated assessment model.

GRANTS & PROJECT PARTICIPATION

Principal Investigator/Award Holder

2025–2026. *Engaging Stakeholders to Democratise Integrated Assessment Modelling for Climate Mitigation*, L. Meltzer Universitetsstiftelse Project Grant, Norway, NOK 73,300.

Associate Investigator

- Under review. *"I felt safe, heard, and validated": Participatory Modelling of Relational Dynamics in Supporting Mental Health Recovery and the Codesign of Strategies for Implementation*, National Health and Medical Research Council, Australia (Lead Chief Investigator: Warren Mansell, Curtin University).
- Under review. *Partners in Genomic Care: A Whole-of-System Implementation Study to Evaluate Workforce Configurations and Models of Care for Mainstreamed Genomic Healthcare*, National Health and Medical Research Council, Australia (Lead Chief Investigator: Tatiane Yanes, Frazer Institute).

Researcher

- 2026–Present. *MatMakt: Exploring the implications of power dynamics for food system change and sustainability outcomes across food, environment, health and climate*, Research Council of Norway (Coordinator: Richard Helliwell, RURALIS).
- 2023–Present. *WorldTrans – Transparent Assessments for Real People*, EU Horizon Europe (Coordinator: Cecilie Mauritzen, MET Norway).
- 2024–2025. *SYNAGRI: Developing synergies between the bioeconomy and regional food systems for a sustainable future*, Research Council of Norway (Coordinator: Richard Helliwell, RURALIS).

AWARDS & HONOURS

2026. Dana Meadows Award Honorable Mention (Assessing the impacts of endogenous behavioural change on food demand), International System Dynamics Conference.
2025. Top Cited Article; Top Viewed Article (A systematic method to integrate co-produced causal loop diagrams based on feedback stories), System Dynamics Review, Wiley.
2025. Dana Meadows Award Honorable Mention (A system dynamics modeling framework for endogenizing human behavior change), International System Dynamics Conference.
2022. Student Commencement Speaker, Social Sciences Master's Graduation Ceremony, University of Bergen.
2019. SINDA Excellence Award, Singapore Indian Development Association.
2018. Regional Winner (Politics & International Relations), The Global Undergraduate Awards.
2018. Highly Commended Entrant (Sociology & Social Policy), The Global Undergraduate Awards.
2017. NUS Awards for Study Abroad Scholarship, National University of Singapore.
- 2016–2018. Multiple Dean's Scholars List, Arts and Social Sciences, National University of Singapore.

INVITED TALKS

2026. Socio-behavioural feedback matters: Systems thinking for more realistic health-system modelling and decision-making. HSRC Seminar Series, SingHealth Health Services Research Centre, Singapore, May 5.
2026. Health services modelling under data scarcity: Assessing the impact of expanded digital prosthetics on mobility outcomes. HSRC Journal Club, SingHealth Health Services Research Centre, Singapore, Apr 21.
2026. Modelling complex, dynamic social phenomena: A system dynamics perspective. Institute for Social Science Research (ISSR), University of Queensland, Brisbane QLD, Australia, Mar 31.
2026. Systems modelling for representing complex socio-behavioural dynamics in clinical workflows. Integrating Genomics into Medicine (IGM), Frazer Institute, University of Queensland, Brisbane QLD, Australia, Mar 30.
2026. System dynamics modelling for mental health research. Queensland Centre for Mental Health Research (QCMHR), The Park Centre for Mental Health Treatment Research and Education, Wacol QLD, Australia, Mar 26.
2026. Working with communities: Participatory systems modelling for capturing complex socio-behavioural feedbacks. Centre for Community Health and Wellbeing (CCHW), University of Queensland, Springfield Central QLD, Australia, Mar 25.
2026. Making Sense of Complexity: Systems Thinking and Modelling in Health. Clinical Seminar, Queensland Rural Health Innovation & Research Collaborative, Toowoomba Hospital, Toowoomba QLD, Australia, Mar 24.
2025. The behavioural turn in climate modelling: Integrating endogenous behavioural change as part of socio-environmental feedback processes in the FRIDA model. USI SDLab Research Seminar, Università della Svizzera Italiana, Lugano, Switzerland (virtual), Dec 4.
2024. Representing endogenous diet shifts in FRIDA-integrated assessment model: from conceptualisation to simulation. Division Seminar in Nutrition Epidemiology, Institute of Basic Medical Sciences, University of Oslo, Norway (virtual), Oct 14.
2023. Harnessing Systems Thinking and Participatory Modeling for Water Systems Research & Solutions. West Big Data Innovation Hub organized session, World Water Week, Stockholm, Sweden (virtual), Aug 21.

CONFERENCE ACTIVITY

*Presenting author(s) | †Co-first author/equal contribution

Oral Presentations

2026. Schoenberg W*, **Rajah JK**, Wells C, Collste D, Callegari B, Blanz B, Nicolaidis AN, Köberle A, Kopainsky B. From accelerating growth to biophysical brakes: The processes that shape the future of the global human & Earth System. 2026 International System Dynamics Conference, Delft, Netherlands, Jul 20–24 [Plenary].
2026. **Rajah JK***, Schoenberg W, Blanz B, Kopainsky B. Assessing the impacts of endogenous behavioural change on food demand in a feedback-based global integrated assessment model. 2026 International System Dynamics Conference, Delft, Netherlands, Jul 20–24 [Dana Meadows Award Honorable Mention].
2026. **Rajah JK***, Hutchison CJ, Chernicoff W, Gonçalves P, Kopainsky B. Expanded digital prosthetic services: Health policy insights from a system dynamics simulation model. 2026 International System Dynamics Conference, Delft, Netherlands, Jul 20–24.
2026. Helliwell R*†, **Rajah JK*†**, Sonnino R, Forney J, Menendez H, Kopainsky B. Re-thinking transformation: Integrating assemblage and systems thinking to advance sustainable food systems. 17th Nordic Environmental Social Science Conference, Uppsala, Sweden, Jun 9–11.
2026. Hulme A, Radley D, Brown A, **Rajah JK**, Kopainsky B, Crielaard L, Koorts H, Nobles J*. The Qualitative Systems Exploration Model (QSEM): Helping practitioners and policy-makers move from causal loop diagrams to actionable insight. International Society of Behavioral Nutrition and Physical Activity (ISBNPA) 2026 Annual Meeting, Cádiz, Spain May 27–30.
2026. Adakudlu M*, Mauritzen C, Wells C, Blanz B, Schoenberg W, Köberle AC, Callegari B, Breier J, Ramme L, **Rajah JK**, Lindqvist AN, Eriksson A, Smith C. [The role of climate impacts in Transition Pathways in an Integrated Assessment Model: interdependencies and nonlinearities](#). EGU General Assembly 2026, Vienna, Austria, May 3–8.
2026. Mahú F*, Schoenberg W, **Rajah JK**, Blanz B, Wells C, Köberle AC. [An Endogenous Behaviour-Driven Approach for Sectorized Energy Demand in an Integrated Assessment Model](#). EGU General Assembly 2026, Vienna, Austria, May 3–8.
2025. **Rajah JK***, Blanz B, Kopainsky B, Schoenberg W. Modelling feedback-based dietary behavioural change in FRIDA v2.1 integrated assessment model. 18th Integrated Assessment Modeling Consortium (IAMC) Annual Meeting, Búzios, Brazil, Nov 11–13.
2025. Li C*, Koberle A, Russo A, Trigo R, Wells C, Schoenberg W, **Rajah JK**. Incorporating fire extremes into the fully coupled Earth-human system Integrated Assessment Model FRIDA. 18th Integrated Assessment Modeling Consortium (IAMC) Annual Meeting, Búzios, Brazil, Nov 11–13.
2025. **Rajah JK***, Blanz B, Kopainsky B, Schoenberg W. [A system dynamics modeling framework for endogenizing human behavior change in global-scale integrated assessment models](#). 2025 International System Dynamics Conference, Boston, MA, USA (virtual), Aug 4–7. [Dana Meadows Award Honorable Mention].
2025. Schoenberg W*, Blanz B, Breier J, Callegari B, Grimeland MB, Nicolaidis Lindqvist A, **Rajah JK**, Ramme L, Wells C, Mauritzen C. FRIDA v2.1: Modeling the two-way coupling of the climate and humans. 2025 International System Dynamics Conference, Boston, MA, USA, Aug 4–7.
2025. Hulme A*, Radley D, Brown A, **Rajah JK**, Kopainsky B, Crielaard L, Koorts H, Nobles J. [The Qualitative Systems Exploration Model \(QSEM\): A framework to support the structural analysis of Causal Loop Diagrams](#). 2025 International System Dynamics Conference, Boston, MA, USA (virtual), Aug 4–7.
2025. Bayer L*, **Rajah JK**, Gkini C, Kopainsky B. [The adoption of conservation tillage in Brandenburg, Germany](#). 2025 International System Dynamics Conference, Boston, MA, USA (virtual), Aug 4–7.
2025. Wells C*, Smith C, Blanz B, Ramme L, Callegari B, Adakudlu M, **Rajah JK**, Eriksson A, Schoenberg W. Implementing ISIMIP-derived global climate damage functions in a new Integrated Assessment Model. Cross-sectoral OptimESM and ISIMIP Workshop 2025, Potsdam, Germany (virtual), May 5–8.
2025. Wells C*, Smith C, Blanz B, Ramme L, Callegari B, Adakudlu M, **Rajah JK**, Eriksson A, Schoenberg W. [Implementing global climate damage functions in a new Integrated Assessment Model](#). EGU General Assembly 2025, Vienna, Austria, Apr 27–May 2.
2024. **Rajah JK***, Kopainsky B. [Human behavioural drivers of meat consumption: Using group model building to capture lived realities](#). 2024 International System Dynamics Conference, Bergen, Norway, Aug 4–8.
2024. Schoenberg WA*, Mauritzen C, Adakudlu M, Blanz B, Breier J, Grimeland MB, Mashhadi S, **Rajah JK**, Ramme L, Wells C. [Towards a “fit for purpose”, fully coupled, integrated, and interdisciplinary world-Earth model – Documentation of FRIDA Version 1.0](#). 2024 International System Dynamics Conference, Bergen, Norway, Aug 4–8. [Plenary].
2024. **Rajah JK***, Tusch B, Hammerseng G, Kopainsky B. Towards Modelling (Pro-)Environmental Human Behaviour in Integrated Assessment Models from a Systems Approach. 2024 International System Dynamics Conference, Bergen, Norway, Aug 4–8.

- 2024. Schoenberg WA*, **Rajah JK***, Kopainsky B. [Teaching with Loops That Matter in the classroom](#). 2024 International System Dynamics Conference, Bergen, Norway, Aug 4–8.
- 2024. Jongsma TAI*, **Rajah JK**. [The Dynamic Radicalization Process and Violent Behaviour of Incels](#). 2024 International System Dynamics Conference, Bergen, Norway, Aug 4–8.
- 2024. **Rajah JK***, Kopainsky B. [Co-producing Models of \(Pro-\)Environmental Human Behaviour: Feedback Stories Surrounding Meat Consumption](#). 16th Nordic Environmental Social Science Conference, Turku, Finland, Jun 4–6.
- 2023. **Rajah JK***, Atkins A, Tang C, Langarudi S. Advancing cross-disciplinary research on transboundary groundwater systems through group model building. 2023 International System Dynamics Conference, Chicago, IL, USA, Jul 24–27.
- 2023. Siemer AR*, **Rajah JK**. [Modeling Public Transportation Attractiveness in System Dynamics: The Significance of Safety Perception](#). 2023 International System Dynamics Conference, Chicago, IL, USA, Jul 24–27. [Student Plenary].
- 2022. **Rajah JK***, Grimeland MB. [Enabling Resilient Food Systems: Simulating the Impact on Local Farmers' Livelihoods in Greater Adelaide, Australia](#). 2022 International System Dynamics Conference, Frankfurt, Germany, Jul 19–22.
- 2022. Gkini C*†, **Rajah JK†**, Rodriguez A, Kopainsky B. [Integrating Diverse Perspectives: Meaning-Making Process in Participatory System Dynamics](#). 2022 International System Dynamics Conference, Frankfurt, Germany, Jul 19–22.
- 2021. **Rajah JK***. [Where Has the Passion Gone? The Dynamics of Non-Profit Workers' Passion Burnout and Intention to Leave](#). 2021 International System Dynamics Conference, Chicago, IL, USA (virtual), Jul 26–30.
- 2021. Surovets V*, **Rajah JK**. Model-Based Socioeconomic Planning of Tourism Development in Developing Countries. International scientific-practical conference of students, postgraduates and young scientists, Kyiv, Ukraine, Feb 3.

Poster Presentations

- 2026. Costa W*, Schoenberg W, **Rajah J**, Blanz B, Mahú F, Köberle A. [Behavioural Dynamics in Agriculture within IAMs: Extending the FRIDA Model with Fertilizer and Livestock Decision Modules](#). EGU General Assembly 2026, Vienna, Austria, May 3–8.
- 2025. Mohammad M*, **Rajah JK**, Schoenberg W, Kopainsky B. [Developing an Interactive Learning Environment to teach the two-way coupling of climate-human system](#). 2025 International System Dynamics Conference, Boston, MA, USA (virtual), Aug 4–7.
- 2024. **Rajah JK***, Tusch B, Hammerseng G, Kopainsky B. [Conceptualising an endogenous representation of human behaviour change in a feedback-based, global-scale integrated assessment model](#). 17th Integrated Assessment Modeling Consortium Annual Meeting, Seoul, South Korea (virtual), Nov 4–6.
- 2024. Sliwowski A*, **Rajah JK**. [Where Will Food Come From? A Look at the Potential of Vertical Farming in Norway](#). 2024 International System Dynamics Conference, Bergen, Norway, Aug 4–8.
- 2022. **Rajah JK***, Hutchison C, Chernicoff W, Gonçalves P. [The Dynamics of Prosthetics Care Continuum for Persons with Amputation](#). 2022 International System Dynamics Conference, Frankfurt, Germany, Jul 19–22.
- 2022. Andreasson E*, **Rajah JK**. [Eroding Public Services: Modelling the Rise of the American Legislative Exchange Council in the United States Legislatures](#). 2022 International System Dynamics Conference, Frankfurt, Germany, Jul 19–22.

Workshop Facilitations

- 2024. Teaching Loop Dominance Analysis and Leverage Point Identification in the Classroom Using Loops That Matter. 2024 International System Dynamics Conference, Bergen, Norway, Aug 4–8.
- 2023. Brewing Success: Learning to Manage Supply Chains with The Beer Game. The 50th European Young Engineers Conference, The Hague, Netherlands, May 13.
- 2022. Systems Thinking & Systems Mapping on Groundwater Depletion. The Transboundary Groundwater Resilience Network Annual Workshop, New Mexico, USA (virtual), Sep 28–29.

INTERNAL & PROJECT TALKS

- 2025. Modelling feedback-based dietary behavioural change in FRIDA v2.1 integrated assessment model. WorldTrans Annual Workshop, Brussels, Belgium, Oct 27–31.
- 2025. Model-based policy analysis tools: Sobol' Indices. WorldTrans Annual Workshop, Brussels, Belgium, Oct 27–31.
- 2025. Bringing people into integrated climate models. Department of Geography, University of Bergen, Norway, Oct 4.

- 2025. Climate impacts: exposure and human behavioural response. WorldTrans Annual Workshop, Lisbon, Portugal, Jan 20–24.
- 2024. Transparent Assessments for Real People: Building and Using FRIDA Integrated Assessment Model. Climate & Energy Transition, University of Bergen, Norway, Dec 5.
- 2024. Human Behavioural Drivers of Meat Consumption: Outcomes from a Participatory Modelling Workshop. WorldTrans Annual Workshop, Lillehammer, Norway, Mar 1.
- 2024. Citizen engagement for Fitness for Purpose assessments. Pre-Workshop Talks, WorldTrans Annual Workshop, Lillehammer, Norway (virtual), Feb 29.
- 2023. Bridging System Dynamics and Post-Normal Science Approaches for Integrated Assessment Praxis. Pre-Workshop Talks, WorldTrans Annual Workshop, Oslo, Norway (virtual), May 19.

TEACHING & ADVISING

Course Responsible/Coordinator

- 2024. System Dynamics Modelling Process (postgraduate course), University of Bergen.
- 2022. Fundamentals of Dynamic Social Systems (postgraduate course), University of Bergen.

Teaching Assistant

- 2024. Model Based Interactive Learning Environments (postgraduate course), University of Bergen.
- 2021–2023. System Dynamics Modelling Process (postgraduate course), University of Bergen.
- 2021. Model-based Analysis and Policy Design (postgraduate course), University of Bergen.
- 2021. Fundamentals of Dynamic Social Systems (postgraduate course), University of Bergen.

Supervision of Graduate Students

Primary Supervisor of Master's Theses

- Ongoing. Tiril Boska. MPhil in System Dynamics, University of Bergen.
- 2025. Annalisa Gandini. Mapping the Dynamics of Human Behavior in Transport Energy Use: A Systems Thinking Approach. MPhil in Sustainability, University of Bergen.
- 2024. Gard Hammerseng. A Systematic Mapping of Meat Consumption Behaviours: Socio-Cultural Dimensions. MPhil in Sustainability, University of Bergen.
- 2024. Benedikt Tusch. Modelling Endogenized Human Behavior: A System Dynamics Based Integration of Pro-Environmental Intention in Integrated Assessment Modelling. MPhil in System Dynamics, University of Bergen.

Examination Committees

Master's Theses

- 2024. Parsa Arbabi. Navigating Demographic Transitions: Analyzing Refugee Population Dynamics and Urban Relocation in the Kinn Municipality. MPhil in System Dynamics, University of Bergen.
- 2023. Dehui Wang. Understanding the Dynamics of Nutrient Management and Runoff from Plant Farms in the Potomac Watershed. MPhil in System Dynamics, University of Bergen.
- 2023. Pegah Shaffaf. Raw Material Inventory Control Analysis: A Case Study for a Manufacturing Firm in Norway. MPhil in System Dynamics, University of Bergen.
- 2023. Edvin Andreasson. Sustainable Aviation Fuel in a Scandinavian Context: A Systems Perspective on Sustainable Transitions within the Aviation Industry. MPhil in System Dynamics, University of Bergen.

RESEARCH VISITS

- 2026. Health Services Research and Population Health, Duke-NUS Medical School, Singapore, Apr 20–May 8.
— Invited talks and advisory support on frailty and other health systems modelling projects.
- 2026. Global Centre for Preventive Health and Nutrition, Deakin University & Southern Queensland Rural Health, University of Queensland, Australia, Mar 16–Apr 17.

— Collaboration on health workforce systems modelling; invited talks across UQ; advisory support on ongoing projects and grant development.

2026. Saw Swee Hock School of Public Health, National University of Singapore, Singapore, Feb 23–Mar 13.

— Collaboration development and advisory discussions on system dynamics modelling.

ACADEMIC SERVICE & LEADERSHIP

Departmental Service

2021–Present. **Member**, System Dynamics Programme Board, University of Bergen.

— Contributed to programme-level discussions concerning curriculum development, assessment, course delivery, and student progression.

2021–2022. **Coordinator**, System Dynamics MINDS, University of Bergen.

— Led the peer mentoring programme for system dynamics master's students.

Conference Organization

2021–2023. **Volunteer Coordinator**, International System Dynamics Conference.

— Member of the organizing committee for three conferences; recruited, trained, and coordinated conference volunteers.

Peer Reviewer

Journals: British Journal of Management; Geoscientific Model Development; Journal of Prevention & Intervention in the Community; PLOS ONE; System Dynamics Review.

Conferences: International System Dynamics Conference.

PROFESSIONAL MEMBERSHIPS

2021–Present. System Dynamics Society.

2026–Present. Health Systems Global.

MEDIA & PUBLIC ENGAGEMENT

2022. Interviewed for [Dynamic model predicts bright future for digital prosthetics](#). *Amplitude Magazine*, Aug 25.

2022. Podcast guest on [Queer Politics and HIV in Singapore](#). *Negotiating Citizenship* with Xin Rui.

COMPETENCIES

Methods and Practice

System dynamics simulation modelling; feedback loop dominance analysis; participatory modelling (group model building); statistical analysis; workshop design and facilitation; stakeholder engagement.

Software

Stella Architect; R; NVivo.

Languages

English (native); Tamil (fluent); Norwegian (basic).