

CV for Johan Holmén

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Research Area:

Conducting inter- and transdisciplinary research on sustainability transitions. Special interest in: reflexive governance and backcasting; socio-technical change and critical systems practice, and; education for sustainable development and transformative social learning. Overall research aim to develop and evaluate methodological approaches for navigating complex system transformations into sustainable and desirable pathways.

Degrees:

- 2020 PhD Energy and Environment – Physical Resource Theory, Chalmers University of Technology, Gothenburg, Sweden.
Title of thesis: *Navigating Sustainability Transformations: Backcasting, transdisciplinarity and social learning*. Main supervisor: Prof. John Holmberg, Co-supervisor, Prof. Tom Adawi
- 2019 Lic. Eng. Energy and Environment, Physical Resource Theory, Chalmers
- 2015 MSc. Sustainable Energy Systems, Chalmers
30 ECTS Energy and Environmental Engineering, Institut National des Sciences Appliquées de Lyon, France.
15 ECTS Pedagogics: Education, Upbringing and Learning, University of Gothenburg

Positions (selection):

- 2021- Postdoctoral researcher on sustainability transformations and social learning. Physical Resource Theory. Chalmers University of Technology, Gothenburg Sweden [Parental leave 08/21-04/22]
- 2016-2020 Doctoral student in Physical Resource Theory. Chalmers. Main supervisor Prof. John Holmberg
- 2017- Senior advisor, Space for Change Institute
- 2013-2014 Course and Development Manager, The non-profit organization Intize, Gothenburg
- 2012-2013 Quality Control Lab Technician, International Paint AB, Angered Gothenburg
- 2011 Process Operator, Eka Chemicals, Trollhättan

Commissions of trust (selection):

- 2020- Head of the Board, Ingenjörer för Miljön (Engineers for the Environment)
- 2019- Technical reviewer on the UNEP Global Environmental Outlook (GEO-6)
- 2019- Member of the Board, CSR Västsverige
- 2018- Regular member of The Balaton Group
- 2015- Thought Leader Sustainability talent network Nova100

Research funding, distinctions, awards

2022	Formas, 500ksek
2021	Swedish Energy Agency / Viable Cities, 500ksek
2020	The Family Kamprad Foundation, 4.3Msek
2019	Chalmers Energy Area of Advance, 300ksek
2018	Stipend from Adlerbertska foundation for visit at Rhodes University, South Africa
2017	Stipend from Chalmers research foundation for visit at Rhodes University, South Africa
2016	Challenge Lab received the UNEP/EAUC Green Gown Award.

Teaching (undergraduate and graduate level)

Systems interventions for sustainability transitions. Course leader 2020-
Business development and Entrepreneurship. Guest lecturer 2018-
Sustainable development, ethics and the engineer's responsibility. Guest lecturer, 2018-
Towards a sustainable shipping. Guest Lecturer 2017-
Technology for a global sustainable society. Guest lecturer, 2017-
Environment and mathematical modelling. Guest lecturer, 2016-
Leadership for sustainability transitions. Lecturer, course developer, 2015-
Challenge Lab. Facilitator, 2015-
Mathematics and society. Course leader, 2013

Teaching (postgraduate level)

2016, 2017 Climate-KIC PhD Summer School Sustainable Production and Consumption systems. Organizing team, facilitator.

Supervision

Supervising 1-3 MSc theses per year during the period 2016-2021. Supported the formation and acted as co-supervisor for an additional ~35 MSc theses at Chalmers Challenge Lab.

Each year I host presentations and discussions at some 20 workshops, seminars, events and conferences in research and societal settings.

List of publications (Larsson = pre-marriage)

Fazey, I., Schöpke, N., Caniglia, G., Hodgson, A., Kendrick, I., Lyon, C., Page, G., Patterson, J., Riedy, C., Strasser, T., Verveen, S., Adams, D., Goldstein, B., Klaes, M., Leicester, G., Linyard, A., McCurdy, A., Ryan, P., Sharpe, B., ... **Holmén, J.**, ... Young, H. R. (2020). Transforming knowledge systems for life on Earth: Visions of future systems and how to get there. *Energy Research & Social Science*, 70, 101724.

Holmén, J., Williams, S., & Holmberg, J. (2022). Comparing sustainability transition labs across process, effects and impacts: Insights from Canada and Sweden. *Energy Research & Social Science*, 89, 102522.

Holmén, J., Adawi, T., & Holmberg, J. (2021). Student-led sustainability transformations: employing realist evaluation to open up the black box of learning in a Challenge Lab curriculum. *International Journal of Sustainability in Higher Education*, 22 (1)

- Holmberg, J., & **Holmén, J.** (2022) Creating Space for Expeditions in Higher Education. *Network for international policies and cooperation in education and training (NORRAG): Special Issue 07: Education in Times of Climate Change, forthcoming*
- Holmberg, J., & **Larsson, J.** (2018). A Sustainability Lighthouse—Supporting Transition Leadership and Conversations on Desirable Futures. *Sustainability*, 10(11), 3842.
- Larsson, J.**, & Holmberg, J. (2018). Learning while creating value for sustainability transitions: The case of Challenge Lab at Chalmers University of Technology. *Journal of Cleaner Production*, 172, 4411–4420.
- McCrory, G., **Holmén, J.**, Schöpke, N., & Holmberg, J. (2022). Sustainability-oriented labs in transitions: An empirically grounded typology. *Environmental Innovation and Societal Transitions*, 43, 99–117.
- McCrory, G., **Holmén, J.**, Holmberg, J., & Adawi, T. (2021). Learning to Frame Complex Sustainability Challenges in Place: Explorations Into a Transdisciplinary “Challenge Lab” Curriculum. *Frontiers in Sustainability*, 2, 714193.
- McCrory, G., Schöpke, N., **Holmén, J.**, & Holmberg, J. (2020). Sustainability-oriented labs in real-world contexts: An exploratory review. *Journal of Cleaner Production*, 277, 123202.
- Conference papers and proceedings
- Lönngrén, J., **Holmén, J.**, & Adawi, T. (2021) When emotions are not outlawed: Using emotional scaffolding to enhance student learning. *SEFI 49th Annual Conference*
- Williams, S., Simon, D., Niestroy, I., Steinmar, K., Lebherz, A., Holmberg, J., **Holmén, J.** (2021) More than a method? Understandings of transdisciplinary transformative research. *Conference paper presented at the 12th International Sustainability Transitions Conference (IST-21)*. Karlsruhe, Germany
- McCrory, G., & Schöpke, N., **Larsson, J.**, & Holmberg, J. (2018) Governing sustainability transitions: contrasting experimental arenas through the lens of Agenda 2030. *Conference paper presented at the 9th International Sustainability Transitions Conference (IST-18)*. Manchester, UK
- Larsson, J.**, & Williams, S. & Holmberg, J. (2018) Guiding systemic change – a cross case analysis of ‘transition labs’ in Canada and Sweden. *Conference paper presented at the 9th International Sustainability Transitions Conference (IST-18)*. Manchester, UK
- Holmberg, J., & **Larsson, J.** (2017) Challenge Lab – Learning by engaging in society’s sustainability transitions. *Proceedings for the 10th Researching Work & Learning (RWL) International Conference Series*. Grahamstown, South Africa
- Larsson, J.**, & Holmberg, J., (2016) Backcasting from sustainability principles – a case from a regional climate policy process in West Sweden. *Conference paper presented at the 7th International Sustainability Transitions Conference (IST-16)*. Wuppertal, Germany
- Holmberg, J., **Larsson, J.**, Andersson, D., (2016) Students guiding societal transitions - examples from Challenge Lab at Chalmers University of Technology, Gothenburg, Sweden. *Conference paper presented at Engineering Education on Sustainable Development (EESD-16)*. Bruges, Belgium

Holmberg, J., **Larsson, J.**, Andersson, D., (2015) Challenge Lab: a transformative and integrative approach for sustainability transitions. *Conference paper presented at the 6th International Sustainability Transitions Conference (IST-15)*. Sussex, UK

Book chapters and reports

Holmberg, J., & **Holmén, J.** (2021) A Space for learners to lead and leaders to learn: Challenge Lab [In Simon, D., Perry, B., Hemström, K., Palmer, H., & Polk, M. (Ed). *Transdisciplinary Knowledge Co-Production: A guide for Sustainable Cities*. Practical Action Publishing

Holmberg, J., & **Holmén, J.** (2020). Medskapande Omställningsarbete – Backcastingexpeditioner för Agenda 2030. *Report to the Swedish Association of Local Authorities and Regions (Sveriges Kommuner och Regioner)*

Sterner, E., Nordborg, M., Olsson, D., Ferring, J., & **Holmén, J.** (2020). Klimatet – en ödesfråga där fakta, värderingar och känslor möts. In Flesner, K.K., Larsson, G., & Säljö, R. (Ed.), *Känsliga frågor, nödvändiga samtal*. Studentlitteratur

Manuscripts under review and working papers

Holmén, J., & Holmberg, J. (2022). Thinking beyond, broad and together: exploring features and value of guiding principles for sustainability in backcasting. *Under review in Futures*

Holmberg, J., & **Holmén, J.**, (2022) Backcasting expeditions and Sustainability transitions: outlining a methodology for purposefully navigating systems innovation and change. *CIIST working paper series [1]*