



Literature for MEST02, Methodological Approaches to Climate Change applies from the autumn semester 2025

Literature established by The Board of the Lund University Centre for Sustainability Studies on 2025-09-24 to apply from 2025-09-24

See appendix.



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MEST02 LITERATURE LIST

2025-09-24

Dnr STYR 2025/2084

Metodologiska ansatser till klimatförändringar, 7,5 högskolepoäng

Methodological Approaches to Climate Change, 7.5 credits

MEST02 litteraturlista fastställd av LUCSUS styrelse den 24 september 2025.

Course textbook

Trochim, William M. K. Research Methods Knowledge Base. Online textbook. <https://conjointly.com/kb/table-of-contents/> (448 pages)

Sections included:

- Five big words <https://conjointly.com/kb/five-big-words-in-research/>
- Philosophy of research <https://conjointly.com/kb/philosophy-of-research/>
- Problem formulation <https://conjointly.com/kb/problem-formulation/>
- Concept mapping <https://conjointly.com/kb/concept-mapping/>
- Sections under "[Language of Research](#)": Types of RQs, Types of Relationships, Variables, Hypotheses, Types of Data, Unit of Analysis
- [Idea of Construct Validity](#)
- Sections under [Sampling](#) <https://conjointly.com/kb/sampling-in-research/> : External Validity, Sampling terminology, statistical terms in sampling
- Data preparation <https://conjointly.com/kb/data-preparation/>;
- [Descriptive Statistics](#)

- All under Constructing the Survey <https://conjointly.com/kb/constructing-survey/> (Types of Survey Questions, Question Content, Response Format, Question Wording, Question Placement)
- General issues in scaling <https://conjointly.com/kb/general-issues-in-scaling/>;
- Likert scaling <https://conjointly.com/kb/likert-scaling/>
- The qualitative debate <https://conjointly.com/kb/qualitative-debate/>
- Unobtrusive measures <https://conjointly.com/kb/unobtrusive-measures/>
- Types of Surveys <https://conjointly.com/kb/types-of-surveys/>
- Selecting the Survey Method <https://conjointly.com/kb/selecting-survey-method/>
- Pluses and Minuses of Survey Methods <https://conjointly.com/kb/survey-methods-plus-and-minus/>
- Interviews <https://conjointly.com/kb/conducting-research-interviews/>
- Sections of "Qualitative Measures" <https://conjointly.com/kb/qualitative-measures/including-qualitative-measures-qualitative-data-qualitative-approaches-qualitative-methods-qualitative-validity/>
- Ethics <https://conjointly.com/kb/ethics-in-research>
- Write-up, Key Elements

Papers and book chapters

Andre, P., Boneva, T., Chopra, F. *et al.* Globally representative evidence on the actual and perceived support for climate action. *Nat. Clim. Chang.* 14, 253–259 (2024). <https://doi.org/10.1038/s41558-024-01925-3> (6 pages)

Cass, N., Büchs, M. and Lucas, K. (2023) How are high-carbon lifestyles justified? Exploring the discursive strategies of excess energy consumers in the United Kingdom, *Energy Research & Social Science*, 97: 102951. <https://www.sciencedirect.com/science/article/pii/S2214629623000117> (13 pages)

Cassidy, Emily, Paul C West, James S Gerber and Jonathan A Foley. (2013) “Redefining agricultural yields: from tonnes to people nourished per hectare.” *Environmental Research Letters*, Volume 8, Number 3. <https://iopscience.iop.org/article/10.1088/1748-9326/8/3/034015> (7 pages)

Clark, Kyle. (2011). Urban Food Forestry: Low-hanging fruit for improving urban food security? LUMES Thesis. (48 pages)

Efron, Sara. E., & Ravid, Ruth. (2019). "What is a Literature overview?" In: Writing the Literature Review: A Practical Guide. New York: The Guilford Press. (<https://www.guilford.com/excerpts/efron2.pdf>) (14 pages)

Foley, Jonathan. (2021) To Stop Climate Change, Time is as Important as Tech. <https://globalecoguy.org/to-stop-climate-change-time-is-as-important-as-tech-1be4beb7094a> (5 pages)

Harvard University, Department of Sociology. "Strategies for qualitative interviews." https://sociology.fas.harvard.edu/files/sociology/files/interview_strategies.pdf (4 pages)

Ivanova, Diana, Barrett, John, Wiedenhofer, Dominik, Macura, Biljana, Callaghan, Max W., & Creutzig, Felix. (2020). Quantifying the potential for climate change mitigation of consumption options (24 pages). Environmental Research Letters. <https://doi.org/10.1088/1748-9326/ab8589>

IPCC, 2022: Summary for Policymakers. In: Climate Change 2022: *Mitigation of Climate Change. Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge University Press, Cambridge, UK and New York, NY, USA. doi: 10.1017/9781009157926.001. (48 pages)

Jack, Tullia. 2022. Qualitative Coding and Analysis Using NVivo. (51 pages)

Jerneck, Anne. LUMES Thesis Guide 2025: See Appendix 3, Examination Template, and ZIP file requirement (p.8) re: data management. (2 pages)

Karlsson, J.O., Carlsson, G., Lindberg, M. and E. Rööf. Designing a future food vision for the Nordics through a participatory modeling approach. *Agron. Sustain. Dev.* 38, 59 (2018). <https://doi.org/10.1007/s13593-018-0528-0> (10 pages)

Kelley, Kate, Clark, Belinda, Brown, Vivienne, Sitzia John. (2003) Good practice in the conduct and reporting of survey research. *Int J Qual Health Care*. 15(3):261-6. [10.1093/intqhc/mzg031](https://doi.org/10.1093/intqhc/mzg031) (6 pages)

Kuss, Paula. (2021) Urban transition experiments for global climate goals: Learning from effective interventions to reduce car use in Lund Municipality. LUMES Thesis: <https://lup.lub.lu.se/luur/download?func=downloadFile&recordId=9046766&fileId=9046767> (44 pages)

Mavisakalyan, A., and Tarverdi, Y. (2019). "Gender and climate change: Do female parliamentarians make difference?" *European Journal of Political Economy*, Volume 56, 2019, Pages 151-164. <https://doi.org/10.1016/j.ejpoleco.2018.08.001> (13 pages)

Millward-Hopkins, Joel, **Steinberger, Julia K.**, Rao, Narasimha D., & Oswald, Yannick. (2020). Providing decent living with minimum energy: A global scenario. *Global Environmental Change*, 65, (10 pages).
<https://doi.org/10.1016/j.gloenvcha.2020.102168>

Moon, Katie, and **Deborah Blackman**. (2014) "A guide to Understanding Social Science Research for Natural Scientists." *Conservation Biology* 28 (5):1167-1177.
<https://conbio.onlinelibrary.wiley.com/doi/epdf/10.1111/cobi.12326> (10 pages)

Nicholas, KA. 2019. "Research design for survey and interview research." <https://www.kimnicholas.com/blog/research-design-for-survey-and-interview-research> (3 pages)

Nicholas, KA. 2013. "*Top Ten Things That Keep Your Good LUMES Thesis Down*." (18 pages)

Nielsen, Kristian S., **Cologna, Viktoria**, Bauer, Jan M., Berger, Sebastian, Brick, Cameron, Dietz, Thomas, Hahnel, Ulf J. J., **Henn, Laura**, Lange, Florian, Stern, Paul C., & **Wolske, Kimberly S**. (2024). Realizing the full potential of behavioural science for climate change mitigation. *Nature Climate Change*, 14(4), 322-330 (9 pages) <https://doi.org/10.1038/s41558-024-01951-1>

Pretorius, L. (2024). Demystifying research paradigms: Navigating ontology, epistemology, and axiology in research. *The Qualitative Report*, 29(10), 2698-2715. <https://doi.org/10.46743/2160-3715/2024.7632> (17 pages)

Schutt, Russell. (2014) Chapter 8: "Survey Research." In: "Investigating the Social World: The Process and Practice of Research." SAGE Publications. https://www.sagepub.com/sites/default/files/upm-binaries/43589_8.pdf (26 pages)

Simpson, Brent, Willer, Robb, & Feinberg, Matthew. (2022). Radical flanks of social movements can increase support for moderate factions. *PNAS Nexus*, 1(3), (11 pages) <https://doi.org/10.1093/pnasnexus/pgac110>

Stechemesser, Annika et al. (**5 women** out of 12 authors) Climate policies that achieved major emission reductions: Global evidence from two decades. (2024). *Science* 385,884-892 (8 pages).
 DOI:10.1126/science.adl6547

Sovacool, B., KJ. Axsen and S. Sorrell (2018). "Promoting novelty, rigor, and style in energy social science: Towards codes of practice for appropriate methods and research design." *Energy Research & Social Science*, 45: 12-42.
<https://www.sciencedirect.com/science/article/pii/S2214629618307230?via%3Dihub> (36 pages)

Swedish Research Council VR (2024). Good Research Practice. Chapter 2: Frameworks, pp.6-21; Chapter 3, Responsibility, pp. 22-41; Chapter 8, Ethical Reflections, pp. 91-107.

<https://www.vr.se/english/analysis/reports/our-reports/2025-07-03-good-research-practice-2024.html> (51 pages)

Ullström, Sara. Approved application to Ethical Review Board to conduct interview research, including informed consent forms and interview guides. (15 pages)

United Nations Environment Programme. (2024). *Emissions Gap Report 2024: No more hot air ...please! With a massive gap between rhetoric and reality, countries draft new climate commitments.*

<https://www.unep.org/resources/emissions-gap-report-2024> Executive summary (XII-XXI, 9 pages), Bridging the gap: Sectoral transformation benchmarks, mitigation potentials and investment needs (p. 41-62, 22 pages)

UNDP. (2023). “TIMES OF CRISIS, TIMES OF CHANGE: SCIENCE FOR ACCELERATING TRANSFORMATIONS TO SUSTAINABLE DEVELOPMENT”. Executive Summary.

https://sdgs.un.org/sites/default/files/2023-09/FINAL%20GSDR%202023-Digital%20-110923_1.pdf (12 pages).

UN Emissions Gap Report 2024: Read the Executive Summary. <https://www.unep.org/resources/emissions-gap-report-2024> (14 pages)

University of Reading Statistical Services Centre. (2021) “Approaches to the Analysis of Survey Data.”

<https://biometrics.ilri.org/GoodStatisticalPractice/publications/guides/topasd.html> (19 pages)

Total number of pages

Total expected reading approximately 1,036 pages.

Author gender balance

The authors perceived as women are highlighted in yellow.

Datasets and tools:

Climate Action Tracker, Data Explorer <https://climateactiontracker.org/cat-data-explorer/>

Energy Innovations Energy Policy Simulator <https://energypolicy.solutions>

EN-ROADS, <https://en-roads.climateinteractive.org/scenario.html?v=25.8.0>

Eurobarometer <https://europa.eu/eurobarometer/surveys/detail/3472>

Our World in Data, <https://ourworldindata.org/explorers/co2>

Panorama, <https://panorama-sweden.com>

UNDP. Peoples' Climate Vote. <https://peoplesclimate.vote>

Yale Program on Climate Change Communication.
<https://climatecommunication.yale.edu/visualizations-data/>

Optional: Interview materials from Kim's PhD

Nicholas, KA. 2005. Human subjects protocol submitted to Stanford University for Interviews and Participant Observations of Winegrowers in the Sonoma and Napa Valleys of California. https://www.kimnicholas.com/uploads/2/5/7/6/25766487/submitted_hum_subj.doc

Nicholas, KA. 2005. Consent form for participant interviews. https://www.kimnicholas.com/uploads/2/5/7/6/25766487/viticulturist_consent_form_v2.doc

Nicholas, KA. 2005. Full interview questionnaire. <https://www.kimnicholas.com/uploads/2/5/7/6/25766487/interviewquestionnaire-final.doc>

Nicholas, KA. 2005. Short interview questions. https://www.kimnicholas.com/uploads/2/5/7/6/25766487/condensed_interview_v6.doc

(citation for these materials: Nicholas and Durham, 2012; More information: <https://www.kimnicholas.com/farmer-climate-adaptation.html>)