



## SCHOOL OF GLOBAL STUDIES

### **GS2236 Technology, Politics, Society, 15 credits**

Teknologi, politik, samhälle, 15 högskolepoäng

*Second Cycle*

---

#### **Reading list for GS2236, to be valid from spring semester of 2023**

Reading list was confirmed by School of Global Studies on 2023-01-20 to be valid from 2023-03-23.

See appendix.



## SCHOOL OF GLOBAL STUDIES

### **GS2236 Technology, Politics, Society, 15 credits** GS2236 Teknologi, politik, samhälle, 15 högskolepoäng

*Second Cycle/Avancera nivå*

---

The reading list is confirmed on 2023-01-20 to be valid from 2023-03-23.

#### **Books**

- Amaro, Ramon. 2023. *Black Technical Object: On Machine Learning and the Aspiration of Black Being*. The MIT Press. (Ordered at GU Library)
- Broussard, Meredith. 2023. *More than a Glitch: Confronting Race, Gender, and Ability Bias in Tech*. The MIT Press. (Ordered at GU Library)
- Coole, Diana and Samantha Frost, S. (2010) (Eds) *New Materialisms: agency, ontology, and politics*. 2010, Durham: Duke University Press.
- Cozza, Michela (2020). *Key concepts in Science and Technology Studies*. Lund: Studentlitteratur.
- Feenberg, Andrew (1999). *Questioning Technology*. London: Routledge.
- Frankish, Keith and William Ramsey (Eds). (2014). *Cambridge Handbook of Artificial Intelligence*. Cambridge: Cambridge University Press.
- Graham, Stephen, and Simon Marvin. 2001. *Splintering Urbanism: Networked Infrastructures, Technological Mobilities, and the Urban Condition*. New York: Routledge. (Chapters 3 & 5). (Available as e-book in GU Library)
- Haraway, Donna J. (1991). *Simians, Cyborgs, and Women: The Reinvention of Nature*, New York: Routledge.
- Henke, Christopher, and Benjamin Sims. 2020. *Repairing Infrastructures: The Maintenance of Materiality of Power*. The MIT Press. (Chapters 3 and 4). Available as e-book in GU Library.

Liboiron, Max. 2021. *Pollution is Colonialism*. Duke University Press. (Chapter 3). Available as e-book in GU Library.

Malm, Andreas (2018). *The progress of this storm*. London: Verso.

Mavhunga, Clapperton Chaketsa (Ed). *What do science, technology, and innovation mean from Africa?* Cambridge, MA : The MIT Press, 2017

Nucho, Joanne Randa (2016). *Everyday sectarianism in urban Lebanon. Infrastructures, public services, and power*, Princeton and Oxford: Princeton University Press.

van der Sloot, B. et al (ed.) (2016) *Exploring the Boundaries of Big Data*. Amsterdam: Amsterdam University Press

### Articles and book chapters

Ahlborg, Helene (2018). Changing energy geographies: The political effects of a small-scale electrification project." *Geoforum* 97, 268-280. <https://doi.org/10.1016/j.geoforum.2018.09.016>.

Akrich, M. (1992). "The de-scription of technical objects." In *Shaping technology/building society: studies in sociotechnical change*, edited by W. E. Bijker and J. Law, 205-224. London: The MIT Press.

Angwin Julia, Larson Jeff, Mattu Surya, et al. (2016) *Machine Bias: There's software used across the country to predict future criminals. And it's biased against blacks*. Available at: <https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing>

Barocas, Solon, Moritz Hardt, and Arvind Narayanan. 2017. Introduction. In "Fairness in machine learning." *Nips tutorial* 1 (2017): 2 (available at <https://fairmlbook.org/>)

Bell, Shannon Elizabeth, Cara Daggett, et al. (2020). "Toward feminist energy systems: Why adding women and solar panels is not enough☆." *Energy Research & Social Science* 68: 101557 <https://doi.org/10.1016/j.erss.2020.101557>

Bloomfield, Brian P., and Karen Dale. (2020). Limitless? Imaginaries of Cognitive Enhancement and the Labouring Body." *History of the Human Sciences* 33 (5), 37–63. <https://doi.org/10.1177/0952695119888995>.

Briggs, Charles L. "Theorizing Modernity Conspiratorially: Science, Scale, and the Political Economy of Public Discourse in Explanations of a Cholera Epidemic." *American Ethnologist* 31, no. 2 (2004): 164–87. <https://doi.org/10.1525/ae.2004.31.2.164>.

- Bueger, Christian & Jan Stockbruegger. 2017. Actor-Network Theory: Objects and Actants, Networks and Narratives. In: Daniel McCarthy (Ed). *Technology and World Politics. An introduction*. London: Routledge. (UB fulltext)
- Büyüm AM, Kenney C, Koris A, et al. (2020). Decolonising global health: if not now, when? *BMJ Global Health* ;5:e003394. doi:10.1136/bmjgh-2020-003394
- Corry Olaf (2017). The international politics of geoengineering: The feasibility of Plan B for tackling climate change *Security Dialogue*, Vol. 48(4) 297–315
- Cozza, Michela, Crevani, Lucia, Hallin, Anette, & Schaeffer, Jennie. (2019). Future ageing: Welfare technology practices for our future older selves. *Futures*, 109, 117-129.
- Crow-Miller, B.; Webber, M. and Rogers, S. (2017). The techno-politics of big infrastructure and the Chinese water machine. *Water Alternatives* 10(2): 233-249.
- Floridi, L., Cowls, J., Beltrametti, M., Chatila, R., Chazerand, P., Dignum, V., ... & Schafer, B. (2018). AI4People—An ethical framework for a good AI society: Opportunities, risks, principles, and recommendations. *Minds and Machines*, 28(4), 689-707.
- Himelein-Wachowiak, McKenzie, Salvatore Giorgi, Amanda Devoto, Muhammad Rahman, Lyle Ungar, H. Andrew Schwartz, David H. Epstein, Lorenzo Leggio, and Brenda Curtis. "Bots and Misinformation Spread on Social Media: Implications for COVID-19." *Journal of Medical Internet Research* 23, no. 5 (May 20, 2021): e26933. <https://doi.org/10.2196/26933>.
- Hojčková, Kristina, Björn Sandén, and Helene Ahlberg (2018) Three electricity futures: Monitoring the emergence of alternative system architectures." *Futures* 98: 72-89  
<https://doi.org/10.1016/j.futures.2017.12.004>.
- Jasanoff, Sheila. (2017). Science and democracy. In: Ulrike Felt, Rayvon Fouché, Clarke A. Miller and Laurel Smith-Doerr (Eds). *Handbook of Science and Technology Studies*. Cambridge/MA: The MIT Press, 259-287
- Kahneman, Daniel, Andrew M Rosenfield, Linnea Gandhi, and Tom Blaser (2016) "Noise: How to Overcome the High, Hidden Cost of Inconsistent Decision Making." *Harvard Business Review* 94 (10): 38-46.
- Kiaghadi, Amina., Hanani S. Rifai, et al. (2020). "Assessing COVID-19 risk, vulnerability and infection prevalence in communities." *PLOS ONE* 15(10): e0241166 doi:10.1371/journal.pone.0241166
- Le Dévédec, Nicolas (2020). The Biopolitical Embodiment of Work in the Era of Human Enhancement." *Body & Society* 26 (1), 55–81. <https://doi.org/10.1177/1357034X19876967>.
- McCarthy, Daniel R. 'Technology and 'the International'or: How I Learned to Stop Worrying and Love Determinism'. *Millennium* 41, no. 3 (2013): 470–90.

- Molle, Francois; Peter Paul Mollinga, and Philippus Wester (2009). Hydraulic bureaucracies and the hydraulic mission: Flows of water, flows of power. *Water Alternatives* 2(3): 328-349.
- Mumford, Lewis (1964). Authoritarian and Democratic Technics. *Technology and Culture* 5 (1), 1-8.
- Nachtwey, Oliver, and Timo Seidl (2020). The Solutionist Ethic and the Spirit of Digital Capitalism." SocArXiv, <https://doi.org/10.31235/osf.io/sqjzq>.
- Nick Bernards & Malcolm Campbell-Verduyn (2019) Understanding technological change in global finance through infrastructures, *Review of International Political Economy*, 26:5, 773-789, DOI: 10.1080/09692290.2019.1625420
- Noys, Benjamin. *Malign Velocities: Accelerationism & Capitalism*. Winchester: Zero Books, 2014. chapter "Accelerate the Process"
- Paul Dylan-Ennis, Donncha Kavanagh & Luis Araujo (2022): The dynamic imaginaries of the Ethereum project, *Economy and Society*, DOI: <https://doi.org/10.1080/03085147.2022.2131280>
- Pinch, Trevor J., and Wiebe E. Bijker (1984). The Social Construction of Facts and Artefacts: Or How the Sociology of Science and the Sociology of Technology Might Benefit Each Other. *Social Studies of Science* 14 (3): 399–441.
- Puig de la Bellacasa, María. 2011. Matters of Care: Assembling Neglected Things. *Social Studies of Science*, 41 (1), 85–106. <https://doi.org/10.1177/0306312710380301>.
- Selinger, Evan (2012). The Philosophy of the Technology of the Gun. *The Atlantic*. <https://www.theatlantic.com/technology/archive/2012/07/the-philosophy-of-the-technology-of-the-gun/260220/>
- Shannon, Mattern. 2018. Maintenance and Care. *Places Journal* (November). <https://placesjournal.org/article/maintenance-and-care/?cn-reloaded=1>.
- Sovacool, Benjamin K. (2021) Reckless or righteous? Reviewing the sociotechnical benefits and risks of climate change geoengineering *Energy Strategy Reviews* 35 (2021) 100656
- Sudeep Jain & Daniela Gabor (2020) The Rise of Digital Financialisation: The Case of India, *New Political Economy*, 25:5, 813-828, DOI: 10.1080/13563467.2019.1708879
- van de Wiel, Lucy (2020). *Freezing fertility: Oocyte cryopreservation and the gender politics of aging*. New York University Press. (introduction and conclusion, pp. 1-26, pp. 217-235)
- von Schnitzler, Antina, (2008). Citizenship prepaid: water, calculability, and technopolitics in South Africa. *Journal of Southern African Studies* 34 (4), 899-917; DOI: 10.1080/03057070802456821.
- Wajcman, Judy (2010). Feminist theories of technology, *Cambridge Journal of Economics*, 34 (1), 143–152, <https://doi.org/10.1093/cje/ben057>

Williams, Alex, and Nick Srnicek. "#ACCELERATE MANIFESTO for an Accelerationist Politics." In #Accelerate: The Accelerationist Reader, edited by Robin Mackay and Armen Avanessian, 347–61. Urbanomic Media Ltd, 2014. <https://criticallegalthinking.com/2013/05/14/accelerate-manifesto-for-an-accelerationist-politics/>

Winner, Langdon (1980). 'Do Artifacts Have Politics?' *Daedalus* 109 (1), ): 121–36.

Wolsink Marten (2020). Framing in Renewable Energy Policies: A Glossary. *Energies*, 13(11):2871.

Ziewitz, Malte. 2011. "How to Think about an Algorithm: Notes from a Not Quite Random Walk." Presented at the Symposium "Knowledge Machines between Freedom and Control," Kulturfabrik Hainburg, Austria, September 29

### Reports, Newspaper Articles and Podcasts

Commission on Social Determinants of Health (2008). Closing the gap in a generation. Health equity through action on the social determinants of health. Final report | executive summary World Health Organization 2008 <https://www.who.int/publications/i/item/WHO-IER-CSDH-08.1>

EU Commission 2019. Ethical guidelines for trustworthy AI. <https://ec.europa.eu/digital-single-market/en/news/ethics-guidelines-trustworthy-ai>

"Ethics washing made in Europe", (*Der Tagespiegel*, 8 April 2019): <https://www.tagesspiegel.de/politik/eu-guidelines-ethics-washing-made-in-europe/24195496.html>

Machine Bias in (*Pro Publica*, 23 May 2016): <https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing>

Nouriel Roubini (2018) 'Blockchain isn't about democracy and decentralisation – it's about greed' *Guardian* 15 Oktober 2018 <https://www.theguardian.com/technology/2018/oct/15/blockchain-democracy-decentralisation-bitcoin-price-cryptocurrencies>

Oliver Milman 2022. Can geo-engineering fix the climate? Hundreds of scientists say not so fast. *The Guardian* 25 December 2022. <https://www.theguardian.com/environment/2022/dec/25/can-controversial-geoengineering-fix-climate-crisis>

Podcast: Virginia Eubanks in Philosophical Disquisitions (<https://philosophicaldisquisitions.blogspot.com/2018/10/episode-47-eubanks-on-automating.html>)

Sanjana Kulkarni 2022. Reversing climate change with geoengineering. Harvard Science in the News Blog <https://sitn.hms.harvard.edu/flash/2022/reversing-climate-change-with-geoengineering/>

We Teach A.I. Systems Everything, Including Our Biases (*New York Times*, 11 November 2019): <https://www.nytimes.com/2019/11/11/technology/artificial-intelligence-bias.html?action=click&module=RelatedLinks&pgtype=Article>

WHO 2019. WHO's visual summary: Leading causes of death and disability. A visual summary of global and regional trends 2010-2019

<https://www.who.int/data/stories/leading-causes-of-death-and-disability-2000-2019-a-visual-summary>