

# Climate Action in Lab, Online and Field Experiments

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Lecture 1: Climate Change Cooperation in the Lab

Lecture 2: Cooperation Outside the Lab: Field and Survey Experiments

Lecture 3: Social Norm Change and Social Tipping Interventions to Scale Climate Action

Brief course outline: 6-9 lines

The course will take stock of the recent experimental literature on the provision of environmental public goods. Lecture 1 will give a brief overview of laboratory experiments in economics and adjacent fields that capture environmental externalities at local and global scales. Lecture 2 will focus on field and online survey experiments that assess the role of personal and social norms (descriptive, injunctive and dynamic) and of the behaviour's observability in driving cooperation. Lecture 3 will introduce the concept of social tipping point and give a critical account of the rapidly expanding literature on social norm change and interventions aiming at deliberately triggering tipping to scale up climate action.

Reading list

Lecture 1

Bosetti et al. (2017) Luring others into climate action: coalition formation games with threshold and spillover effects. *Oxford Economic Papers* 69

Casari and Tavoni (2024) Climate clubs in the laboratory. *Journal of Behavioral and Experimental Economics*, Vol 110.

Dannenberg et al (2015) On the Provision of Public Goods with Probabilistic and Ambiguous Thresholds.

*Environmental and Resource Economics* 61

Milinski et al. (2008): The collective-risk social dilemma and the prevention of simulated dangerous climate change. *Proceedings of the National Academy of Sciences* 105, 7

Tavoni et al. (2011): Inequality, communication, and the avoidance of disastrous climate change in a public goods game. *Proceedings of the National Academy of Sciences* 108, 29

Lecture 2

Andre, et al. (2024): Misperceived Social Norms and Willingness to Act Against Climate Change. *The Review of Economics and Statistics* in press

Andre, et al. (2024) "Globally Representative Evidence on the Actual and Perceived Support for Climate Action." *Nature Climate Change*, February 9, 2024, 1–7.

Dechezleprêtre, et al. (forthcoming) 'Fighting Climate Change: International Attitudes Toward Climate Policies', *American Economic Review*

Gosnell, et al. (2021). Observing the unobservable: A field experiment on early adopters of a climate-friendly behavior Grantham Research Institute on Climate Change and the Environment Working Paper, 365

### Lecture 3

Andreoni, et al (2021). Predicting social tipping and norm change in controlled experiments. *Proc. Natl Acad. Sci. USA* 118

Andrighetto and Vriens (2022) 'A research agenda for the study of social norm change', *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 380(2227), p. 20200411.

Centola, et al (2018). Experimental evidence for tipping points in social convention. *Science* 360, 1116–1119.

Pizziol and Tavoni (2024): From niches to norms: the promise of social tipping interventions to scale climate action. *npj Climate Action* 3, 46