# Being a (climate) scientist in the unfolding climate crisis

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### Extreme heat wave in Western North America, June 2021

2-meter Air Temperature Anomaly (°C)

10

#### Estimated excess mortality in British Columbia



500 km

June 27, 2021



#### Flooding Western Germany, July 2021







### Heat wave in India and Pakistan, April-May 2022





#### The increasing gap between knowledge and action



## What now?



How can science contribute to closing the knowledgeaction gap in climate change?

5 suggestions from Reto Knutti:

- **1) Climate services**: more local, more near term information relevant for adaptation of infrastructure and agriculture, and societal risk management
- 2) Interdisciplinary approaches in the context of sustainable development
- 3) Research on **solutions with co-benefits**
- 4) Quantify **uncertainties** in all aspects of science for robust decision making
- 5) Engaging with **humanities and social sciences**, accounting for the *"*human factor" (irrational decision making, belief systems, etc)

#### Global change is occurring **The scientific community has responded**



## Call for a moratorium on climate change research

"We [...] call for a halt to further IPCC assessments. We call for a moratorium on climate change research until governments are willing to fulfil their responsibilities in good faith and urgently mobilize coordinated action from the local to global levels."

Glavovic et al. 2021 Climate and Development



My personal reflections on 3 options for getting active beyond the science

#### **Option 1: Communication – Expand your audience**

- Organize a talk within your local community, e.g., for the parents of your kids' school, at the sports club, at the church, at your favourite bar,...
- Use social media (?)
- Make use of opportunities arising in conversations with friends, neighbours, family members, ...



#### JUEVES 12 DE MAYO a las 17:00

Dónde: CEIP HUERTA SANTA MARINA (Biblioteca) C. Bordador Rodríguez Ojeda, 10

Por Veronika Hubber - bióloga, investigadora y madre & María Victoria Román - economista, investigadora y madre



Let's seek advice on communication from psychologists



#### **Option 2: Engage in climate activism**



#### Option 3: Be honest about your carbon footprint



#### My train ride from Sevilla to Potsdam



Travel time: 2 full days Distance: > 2800 km





Seen from the train, close to Lyon, France, 15 May 2022



## One idea: Documenting our train travel on the PROCLIAS website



Referree report deadline

> Paper revision deadline

Evaluation report deadline



Proposal deadline

Exam marking deadline

And all the other stuff in my life.... deadlines



#### **Discussion points**

Given the knowledge-action gap, and the increasing manifestation of climate impacts all around us, should we

- Just keep on as before?
- Change the science we are doing (e.g., more near term and local)?
- Invest (even) more time in communication and communication training?
- Engage in climate activism or even civil disobedience?
- Reduce our own carbon footprints by e.g. flying less?
- Do anything else that has not been mentioned?





#### Thank you!

If you want to get involved please contact:

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