

What can PL folks do about climate change?

Benjamin C. Pierce

University of Pennsylvania

What can PL folks do about climate change?

Benjamin C. Pierce

University of Pennsylvania

individual

PL researcher

computer scientist

employee

citizen

What can I do
as an individual?

recycle

fly less

drive an EV

install heat pumps

insulate

eat less meat

cycle / walk

etc., etc., etc.

What can I do
as a citizen?

Vote

What can I do
as a PL researcher?

Ideas welcome!

In particular...



Sun 14 - Sat 20 January 2024
London, United Kingdom

Attending ▾ Program ▾ Tracks ▾ Organization ▾ Series ▾

[↑ POPL 2024 \(series\)](#) / [PROPL 2024 \(series\)](#) /

Programming for the Planet (PROPL)

[About](#) [Program](#) [Accepted Talks](#) [Call for Papers](#)

There are simultaneous crises across the planet due to rising CO₂ emissions, rapid biodiversity loss, and desertification. Assessing progress on these complex and interlocking issues requires a global view on the effectiveness of our adaptations and mitigations. To succeed in the coming decades, we need a wealth of new data about our natural environment that we rapidly process into accurate indicators, with sufficient trust in the resulting insights to make

Important Dates

Sat 20 Jan 2024
Workshop

Mon 4 Dec 2023

Anil Madhavapeddy and Dominic Orchard, co-chairs

Does it have to have something to do with PL?

What can I do
as a computer scientist?

Political

Reducing carbon footprints of conferences
e.g., reboot the SIGPLAN Climate Committee?

Cross-disciplinary

Machine learning for climate change
Cf. Computing Reviews survey by Rollnick et al.

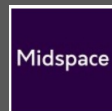
Improving distributed systems to support
climate science



Institute of
Computing for
Climate Science

Cambridge Centre for Carbon Credits (4C)

Virtual conference platforms
Midspace, etc.



Carbon footprint of cloud computing / LLMs / online gaming / ...
Forthcoming(?) NSF Expedition led by Brooks and Lee

And much more!

What can I do
at a university / company?

Probably lots going on in your organization!

Probably easy to get involved!

Thank you!