PaleoHack BYOP edition: Registration Questionnaire

Note: this questionnaire is expected to take ~1h to fill, as it requires a mini research proposal to be thought out to some degree. We recommend that you first take a look at the PDF [INSERT LINK HERE] of the questionnaire for preparation purposes, and only fill out this form once you have all answers in hand.

This in-person event, supported by NSF grant 2002556 (P2C2 program), will be occurring between the hours of 9am to 4pm Pacific Standard Time (UTC-8) on June 20-23 2023. The instructors (Julien Emile-Geay, Deborah Khider and Nicholas McKay) assume that participants have some familiarity with Python.

The computing environment will be a JupyterLab server, and all computations will be cloud-based, so no local Python installation is required, though it is encouraged. Attendance will be limited to 15 scholars, with priority given to ECRs and people from groups traditionally underrepresented in the geosciences.

* Required

General information

1. Last Name *

2. First name *

3. What is your current institution? *

4. Please upload your CV (PDF only) *

   Files submitted:

5. Please provide link(s) to at least one of: personal website, Twitter handle, LinkedIn page, Google Scholar page, ResearchGate profile, or other online professional profile.

6. What is the highest degree you will have completed by June 2023? *

Mark only one oval.

- Bachelor
- Master
- PhD

7. How many years of experience of post-undergraduate research work (academic, e.g., graduate research assistant, postdoc, or industry) d you have?

Mark only one oval.

- 0-5
- 6-10
- 10-15
- 15+

Your science problem

We receive more applications than we can fulfill, so we need to see evidence that a) you have seriously considered some research question(s) and b) that this workshop will be of unique benefit to your career. Please answer these questions thoughtfully as they will determine whether you are admitted to the program, and (to some extent) how much financial support you will receive.

8. What paleoclimate problem are you trying to address? *

9. Why is this problem important? *

10. What have you done so far to address this problem, and what is limiting you now? *

11. What datasets (observations or model output) will help you move forward on this problem? Be very specific here: if you are interested in existing datasets, include the URL where they can be found, or explain how you will procure these data before the workshop (e.g. generating new data).

12. What analysis methods will help you move forward on this problem? If you know the method(s), please mention where you have read about it. If you do no know the method, why do you believe it will help you? Again, be very specific: "Machine learning" is not a method, s you would have to explain what method/algorithm you seek to apply to your data.

Python proficiency

The following questions are meant to establish your proficiency in the scientific Python ecosystem.

13. How would you rate your Python proficiency? *

Mark only one oval.

- I can implement some code, given examples
- I can comfortably write my own programs
- I can teach others to write their own code

14. Can you share examples of Python code you have written? Preferred responses in the form of Python script (.py) or Jupyter Notebook with all figures included.

    Files submitted:

15. Please provide a link to any public code repository that you may have (e.g., GitHub)

    _____

16. Have you ever heard/used Pyleoclim before? (https://pyleoclim-util.readthedocs.io/en/master/) *

    Mark only one oval.

    - ◯ I have heard of it but never used it
    - ◯ I have it installed and tried a few examples
    - ◯ I have participated in a PaleoHack before
    - ◯ Pyleoclim is a part of my research workflow

Demographics

Here we wish to collect some basic demographic information for reporting to our funders.

17. Are you part of an under-represented minority in STEM? *

    Mark only one oval.

    - ◯ Yes
    - ◯ No
    - ◯ Prefer not to say

18. Optional: What pronouns do you use?

    _____

19. Optional: With which gender(s) do you identify? [Check all that apply]

    Check all that apply.

    - ☐ Female
    - ☐ Male
    - ☐ Non-binary
    - ☐ Prefer not to say

20. Optional: With which race(s)/ethnicity(ies) do you identify? [Check all that apply]

Check all that apply.

- [ ] Asian
- [ ] Black
- [ ] Hispanic or Latino
- [ ] Native American
- [ ] Pacific Islander
- [ ] White
- [ ] Other: _____

21. What is the country of your current academic or professional affiliation?

_____

22. Optional: if PaleoHack were an Olympic event, what nationality would you represent?

_____

23. Optional: What is the highest degree/level of education achieved by your parent(s)/primary guardian(s)?

_____

24. Optional: Are there other aspects of your identity that you would like to share?

_____

_____

_____

_____

_____

25. Optional: Please feel free to provide any feedback you have about the questions in this form

_____

_____

_____

_____

_____

What happens next?

You will receive a response by March 1, 2023. In the meantime, we suggest you familiarize yourself with the following resources:
- Linked Paleo Data (LiPD [pronounce "lipid"]): https://lipd.net
- Pyleoclim: https://github.com/LinkedEarth/Pyleoclim_util
- Jupyter: https://nbviewer.jupyter.org

If you have any questions, please email Julien Emile-Geay (julieneg@usc.edu).

For the hackathon, you will need two other pieces of information

26. Our computing platform requires only that you provide a GitHub username. Please provide your GitHub username here; if you do not have one, please create one at this time. It is free, and may one day become an essential part of your scientific life. Please choose your username carefully, as you won't get to change it easily!

27. A what email address would you like us to send you a Slack invitation? *