

Getting Credit For Your Hard Work

Objective

- Add a basic CITATION.cff file to your repo
- Practice the wrap-up steps to publish/archive a research compendium with a DOI.
- Understand concept of a reproducible computational environment.
- Learn renv and discuss Docker (concept).

Lesson Outline

- Why share code?
 - Facilitate discussion
 - Show figure from B. Maitner *et al.* [1]
 - Higher citations
 - To “pay it forward” to other researchers
 - To demonstrate your skills
 - To facilitate error correction
- Getting credit for code
 - Code is not cited often, but partly because it’s not made easy to cite
- CITATION.cff
 - Show CITATION.cff files for this repo and maybe one for a research compendium
 - Show “cite this” button on GitHub
 - Everyone use CITATION.cff creation tool CFFINIT to create a *basic* CITATION.cff
 - *Maybe* mention `cffr::cff_validate()`
- Archiving
 - Exercise: guide everyone through archiving a repo with Zenodo using sandbox.zenodo.org
 - Add DOI badge to readme
 - Update CITATION.cff with DOI
- renv
 - Discuss why
 - Ask students to activate renv for a project and inspect files it creates
 - Explain how renv works, especially `renv::status()`, and `renv::snapshot()`
 - Clone demo repo with renv files
 - Show that no packages are available initially (project is isolated)
 - run `renv::restore()`

- Docker (if time)
 - Conceptual overview of what it is
 - Discuss how tools like renv and Docker both help and hinder reproducibility

Homework

- Prep for reproducibility colloquium

Bibliography

- [1] B. Maitner *et al.*, “Code sharing increases citations, but remains uncommon,” 2023, doi: 10.21203/rs.3.rs-3222221/v1.