Getting Credit For Your Hard Work

Objective

Learn the wrap-up steps to publish/archive a research compendium with a DOI. Understand 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
  - Show CITATION.cff creation tool CFFINIT
  - Maybe mention `cffr::cff_validate()`
- Archiving
  - Most participants probably won't be ready to follow along with their own repos, but we will be there to help when they are ready
  - Demo archiving a repo with Zenodo using this repo
  - 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 (have co-instructor share screen)
  - Explain how `renv` works, especially `renv::status()` , and `renv::snapshot()`
  - Clone co-instructor's 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 showcase session

Bibliography

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