

Introduction to GitHub & integration with R for project management

Kayla I Perry, PhD
Assistant Professor
The Ohio State University

Workshop Outline & Goals

Introduction to GitHub

Integrate R & Git

Link with a repository on GitHub

Create your own repository on GitHub

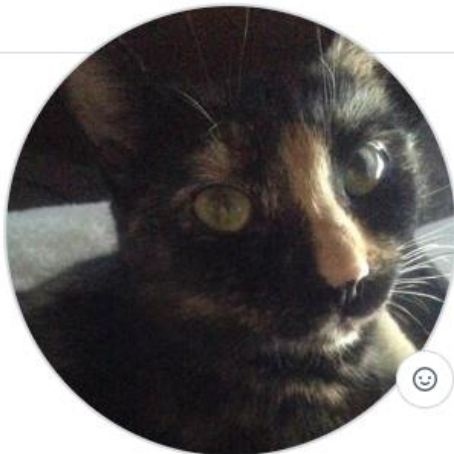
Git and GitHub – What are they?

Git: Software that handles version control on your repository

- Working in the background when using GitHub

GitHub: Web interface that hosts your repository online

- Allows for collaboration on projects
- Interfaces with R/RStudio & Git



Kayla I Perry

kiperry

Edit profile

1 follower · 7 following

kiperry1488@gmail.com

https://www.researchgate.net/profile/Kayla_Perry

Organizations



Overview Repositories 7 Projects Packages Stars

Popular repositories

Customize your pins

[Ash_Beetle_Communities](#)

Public

R

[Arthropod_Marking](#)

Public

[LadyBeetle_SEM](#)

Public

R

[ESA_NCB_2021](#)

Public

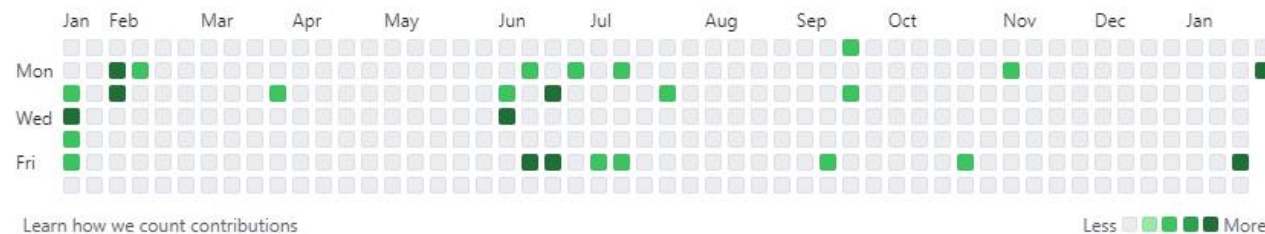
R

[OSU_Statistics_Workshops](#)

Public

41 contributions in the last year

Contribution settings



Contribution activity

2023

January 2023



Created 3 commits in 2 repositories

[kiperry/OSU_Statistics_Workshops](#) 2 commits

[kiperry/WI_Bumble_Bees](#) 1 commit



Created 1 repository

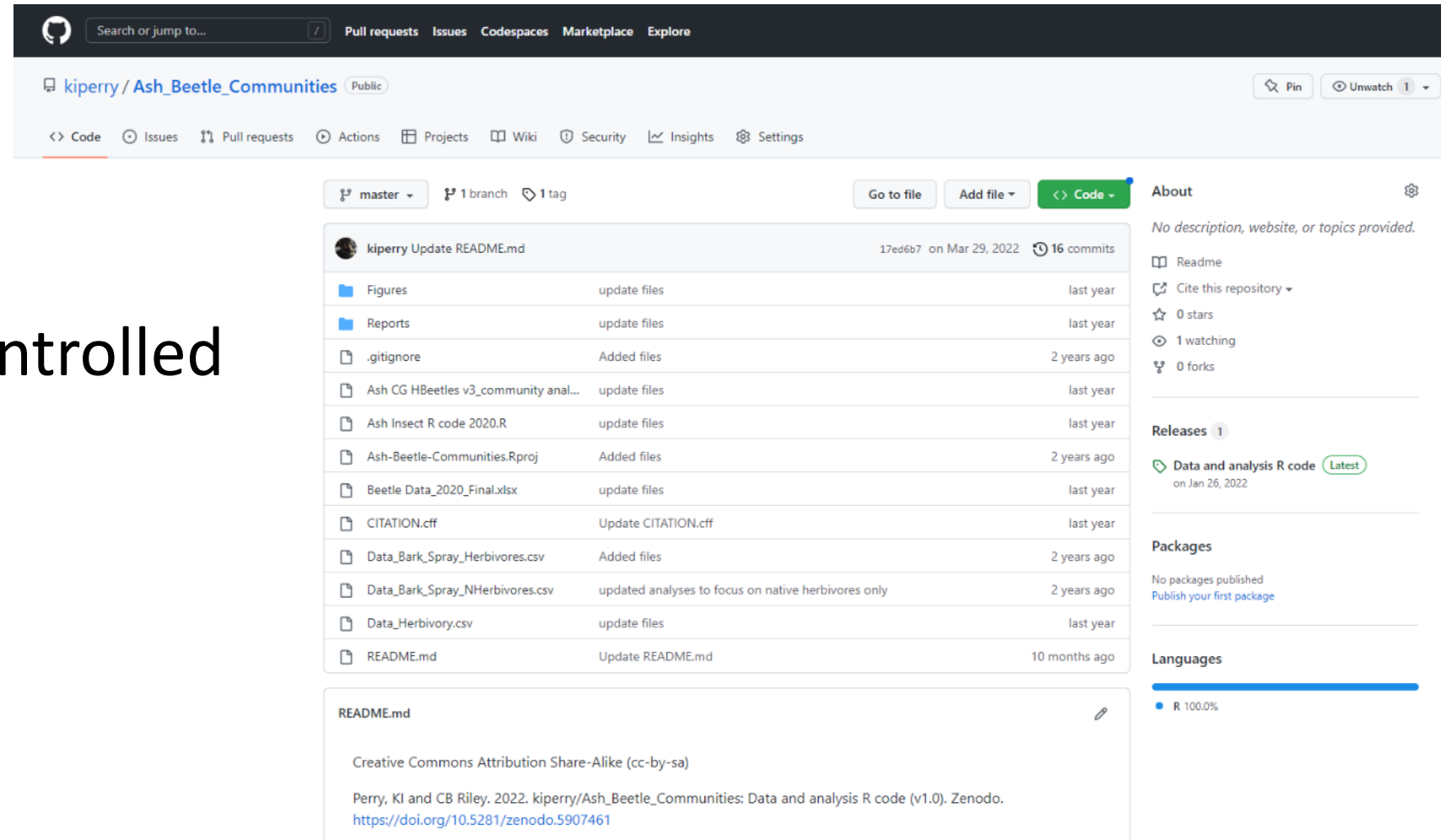
What is a repository (or repo)?

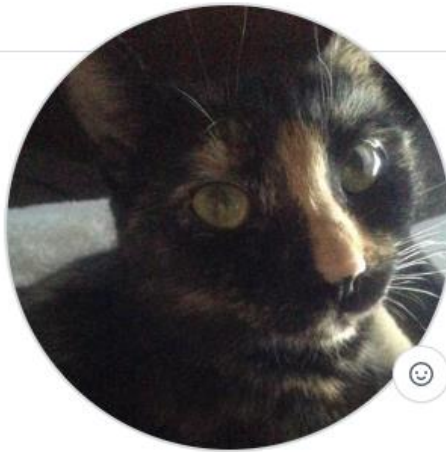
Place for all files associated with a project

With GitHub, your repo lives on your computer and online

Each file is version controlled with documented development history

Public or private





Kayla I Perry

kiperry

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kiperry1488@gmail.com

https://www.researchgate.net/profile/Kayla_Perry

Organizations



Overview

Repositories 7

Projects

Packages

Stars

Find a repository...

Type ▾

Language ▾

Sort ▾

New

OSU_Statistics_Workshops Public

Updated 30 minutes ago

Star ▾

WI_Bumble_Bees Private

R Updated 1 hour ago

Star ▾

Ohio_Bees Private

R Updated 2 weeks ago

Star ▾

Ash_Beetle_Communities Public

R Updated on Mar 29, 2022

Star ▾

Arthropod_Marking Public

Updated on Jan 26, 2022

Star ▾

LadyBeetle_SEM Public

R Updated on Jun 24, 2021

Star ▾

ESA_NCB_2021 Public

R Updated on Jun 22, 2021

Star ▾

Make changes or updates to repo with commit

Save a version of a file, and provide notes on what you changed

When you commit a file in Git/GitHub, you are saving a new version, but also keeping a record of the changes you made



Commit changes

Create README.md

Add an optional extended description...

kiperry1488@gmail.com

Choose which email address to associate with this commit

☒ Commit directly to the `master` branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes

Cancel

Commits on Jan 26, 2022		
Update CITATION.cff	kiperry committed on Jan 26, 2022	Verified 9e13eae <>
Update README.md	kiperry committed on Jan 26, 2022	Verified b0b11db <>
Create CITATION.cff	kiperry committed on Jan 26, 2022	Verified 8ecf12d <>
Update README.md	kiperry committed on Jan 26, 2022	Verified 35164c5 <>
Merge branch 'master' of https://github.com/kiperry/Ash-Beetle-Commun...	kiperry committed on Jan 26, 2022	91a335c <>
update files	kiperry committed on Jan 26, 2022	329f01d <>
Commits on Nov 29, 2021		
Update README.md	kiperry committed on Nov 29, 2021	Verified 2c6297e <>
Commits on Jun 15, 2020		
updated analyses to focus on native herbivores only	kiperry committed on Jun 15, 2020	2bdf4fc <>
Commits on Jun 11, 2020		
Merge branch 'master' of https://github.com/kiperry/Ash-Beetle-Commun...	kiperry committed on Jun 11, 2020	a53089b <>
Added files	kiperry committed on Jun 11, 2020	457acab <>
Delete Data_Bark_Spray_Herbivores.csv	kiperry committed on Jun 11, 2020	Verified f7c5b1d <>
Delete Beetle Data_2020_Final.xlsx	kiperry committed on Jun 11, 2020	Verified 75250e9 <>

Make changes or updates to repo with commit

Save a version of a file, and provide notes on what you changed

When you commit a file in Git/GitHub, you are saving a new version, but also keeping a record of the changes you made



Commit changes

Create README.md

Add an optional extended description...

kiperry1488@gmail.com

Choose which email address to associate with this commit

☒ Commit directly to the master branch.

☐ Create a new branch for this commit and start a pull request. [Learn more about pull requests.](#)

Commit changes Cancel

RStudio: Review Changes

Changes History main (all commits)

Subject	Author	Date (UTC)	SHA
Updated figures	Kayla I Perry <kiperry1488@gmail.com>	2023-01-23	eccedfde
updated figures	Kayla I Perry <kiperry1488@gmail.com>	2022-11-07	25dfe146
updated PLS figure	Kayla I Perry <kiperry1488@gmail.com>	2022-06-24	9e0fd307
updated PLS figure	Kayla I Perry <kiperry1488@gmail.com>	2022-06-24	d5232c32
updated pls figure again	Kayla I Perry <kiperry1488@gmail.com>	2022-06-21	9e5931a2
updated PLS figure	Kayla I Perry <kiperry1488@gmail.com>	2022-06-21	b8fb52d3
Updated PLS figure	Kayla I Perry <kiperry1488@gmail.com>	2022-06-17	59d082ef
PLS figure	Kayla I Perry <kiperry1488@gmail.com>	2022-06-17	d8f9678e
GLM code	Kayla I Perry <kiperry1488@gmail.com>	2022-06-13	eddc0449
pls analyses	Kayla I Perry <kiperry1488@gmail.com>	2022-06-08	bdf95a7
updating files	Kayla I Perry <kiperry1488@gmail.com>	2022-06-08	c9a3110e
added phylogenetic diversity	Kayla I Perry <kiperry1488@gmail.com>	2022-02-08	34e24cf1
Adding files	Kayla I Perry <kiperry1488@gmail.com>	2022-01-27	abf521ea
Initial commit	Kayla I Perry <kiperry1488@gmail.com>	2021-06-25	cc565e15

Commits 1-14 of 14

SHA eccedfde189b4490a9397d6993f09bc8635a350

Author Kayla I Perry <kiperry1488@gmail.com>

Date (UTC) 2023-01-23 18:50

Subject Updated figures

Parent 25dfe146ab0bd4e47073ca4c00732b6f896f668e

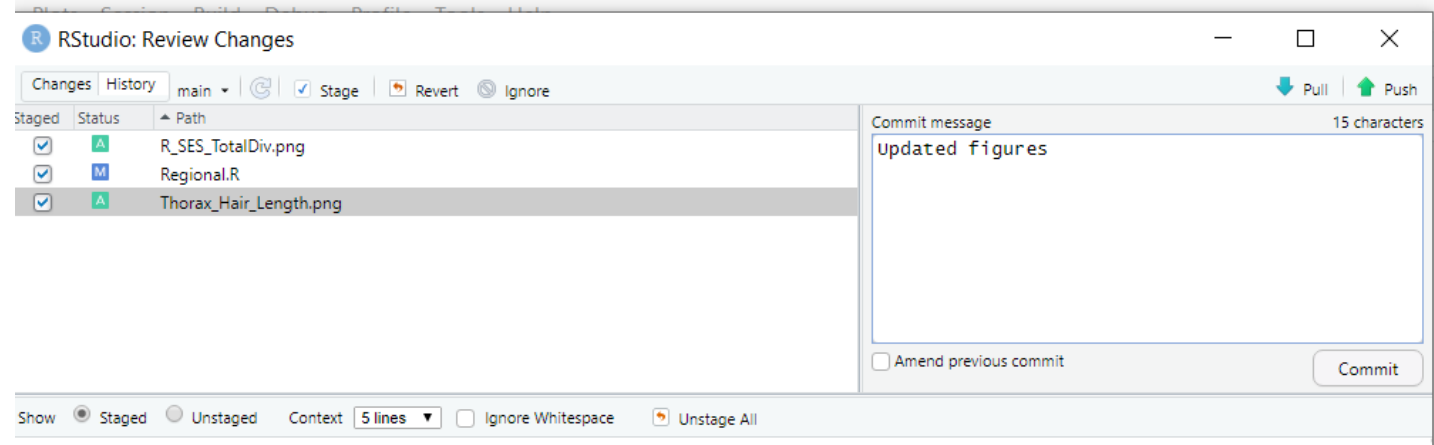
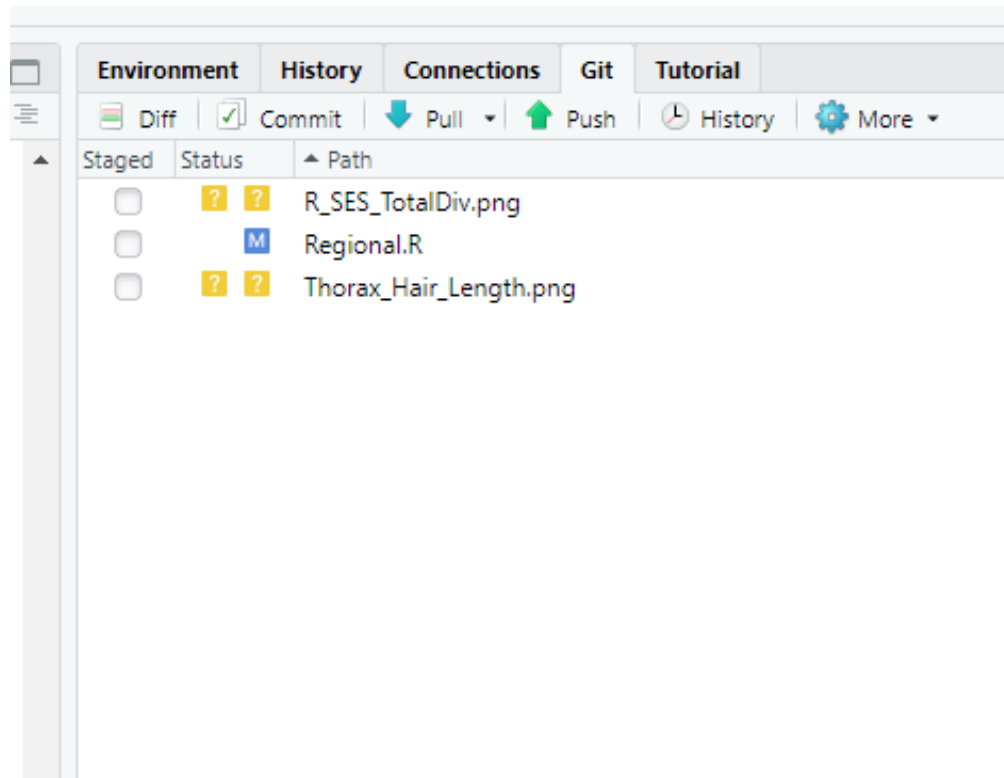
Regional.R

View file | eccedfde

```
@@ -1774,3 +1774,46 @@ ggplot(SSES_cwm.m, aes(x=ses, y=cwm, fill = cwm)) +
1774 1774   scale_fill_viridis(alpha = 0.7, discrete = TRUE, option = "d")
1775 1775
1776 1776   dev.off()
1777
1778 #####
1779
1780 ### figure panel - Total diversity indices
1781
1782 SSES$trmt <- c("U", "A", "U", "U", "U", "A", "A", "U", "A", "U", "U", "U", "U", "A", "U",
1783              "A", "U", "U", "A", "A")
1784
1785 levels(SSES$trmt)[levels(SSES$trmt)=="U"] <- "urban"
1786 levels(SSES$trmt)[levels(SSES$trmt)=="A"] <- "Agriculture"
1787
1788 SSES$trmt <- as.factor(SSES$trmt)
1789 str(SSES)
1790
1791 # Total beta-diversity
1792 png("R_SES_TotalDiv.png", width = 2500, height = 1000, pointsize = 30)
1793
1794 par(mfrow=c(1,3))
1795 par(mar=c(5.8,4.2))
```


Pull, Commit, then Push

1. **Pull** from the online repository to update your local files
2. **Commit** to save a new version of a file(s)
3. **Push** those changes online to the repository



1) Sync project files locally on your computer and online

2) Make commits to record changes to files over time

3) Facilitates remote collaboration because multiple folks can add and make changes to project files in the repository at the same time

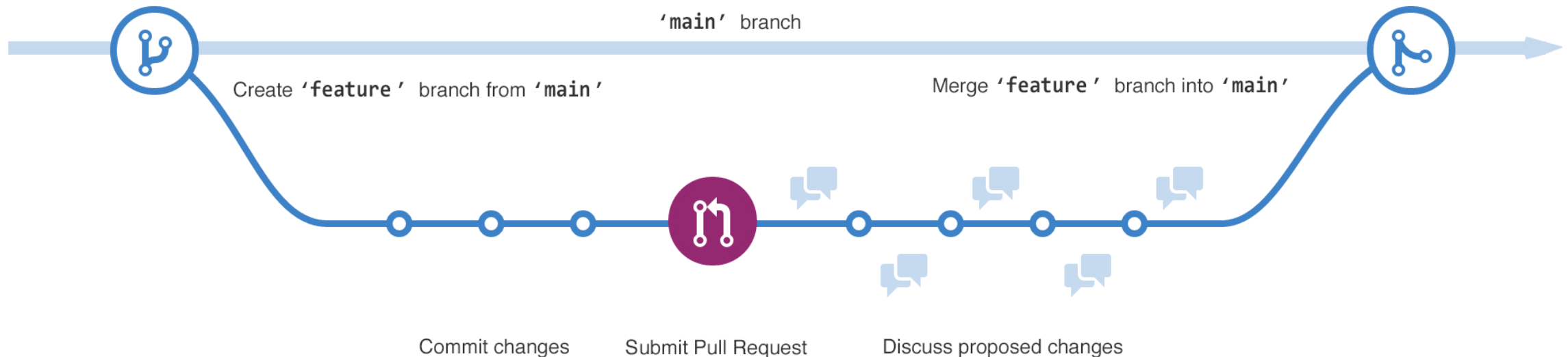


Additional features: Branch / Merge

Parallel version of your repository at a particular point in time

- Allows for experimentation/revision without affecting the original documents of the project
- Can merge the branch back into the project later

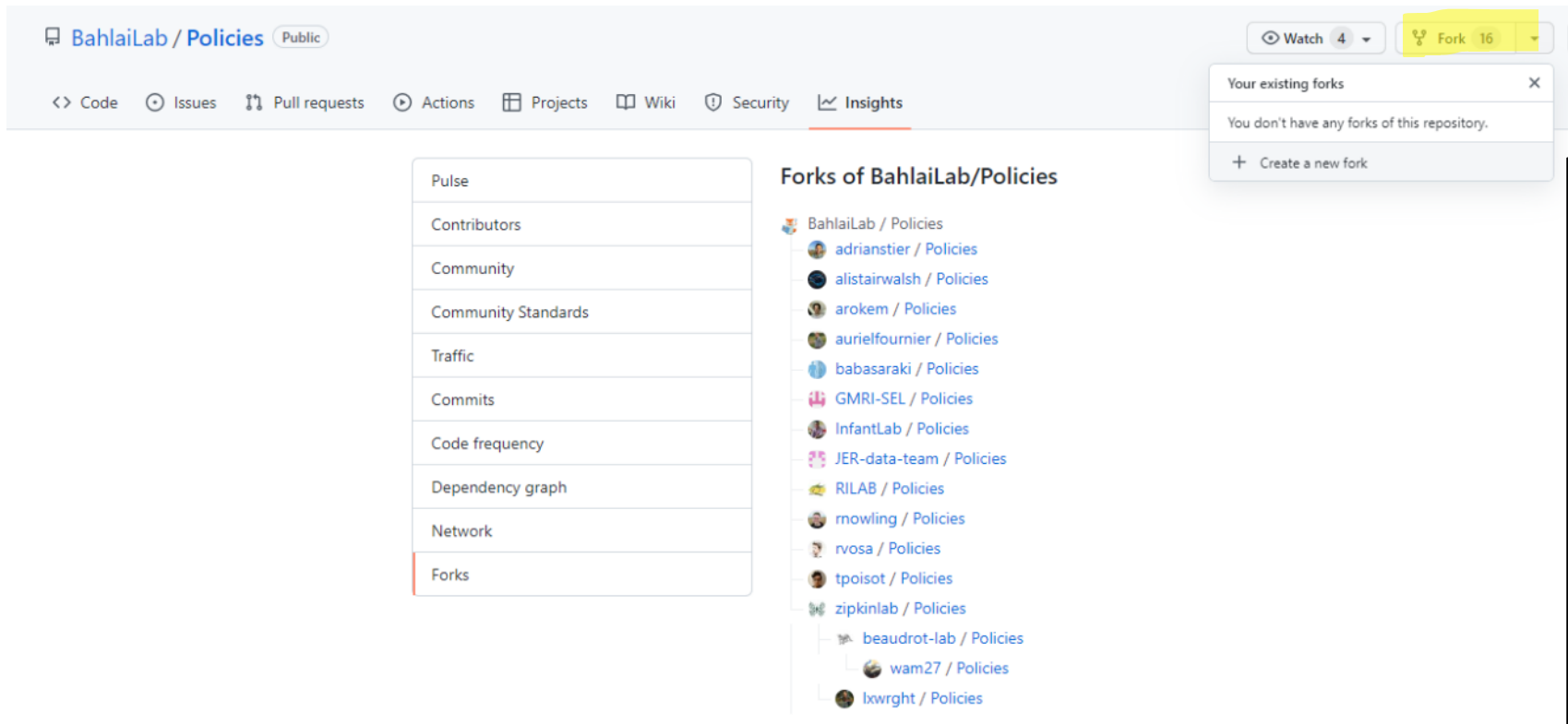
Contained within the repository, but does not impact the main branch



Additional features: Fork

Make a personal copy of a repository

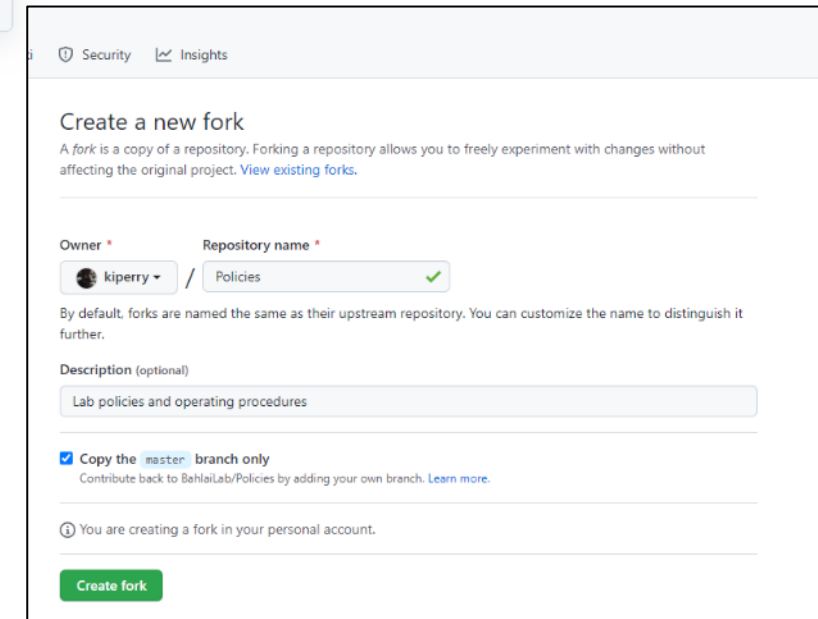
- Intention to contribute or improve, and then provide changes at a later point in time



The screenshot shows the GitHub repository page for **BahlaiLab / Policies**. The repository is public. The left sidebar has the 'Forks' tab selected. The main content area displays a list of forks under the heading 'Forks of BahlaiLab/Policies'. The list includes:

- BahlaiLab / Policies
- adrianstier / Policies
- alistairwalsh / Policies
- arokem / Policies
- aurielfournier / Policies
- babasarak / Policies
- GMRI-SEL / Policies
- InfantLab / Policies
- JER-data-team / Policies
- RILAB / Policies
- rnowling / Policies
- rvosa / Policies
- tpoisot / Policies
- zipkinlab / Policies
- beaudrot-lab / Policies
- wam27 / Policies
- bxwrght / Policies

At the top right, there are buttons for 'Watch' (4) and 'Fork' (16). A dropdown menu is open for the 'Fork' button, showing 'Your existing forks' (empty) and a '+ Create a new fork' option.



The screenshot shows the 'Create a new fork' dialog box. It includes the following fields and options:

- Owner ***: kiperry
- Repository name ***: Policies (with a green checkmark)
- Description (optional)**: Lab policies and operating procedures
- ☒ **Copy the master branch only**: Contribute back to BahlaiLab/Policies by adding your own branch. [Learn more.](#)
- ☐ **You are creating a fork in your personal account.**
- Create fork** button

Additional features: Fork

Make a personal copy of a repository

- Intention to contribute or improve, and then provide changes at a later point in time

If you are not an official collaborator on the repository, need to submit a pull request

- If the repository is public, folks have access to your files but cannot change them without permission

Starting point for your own project

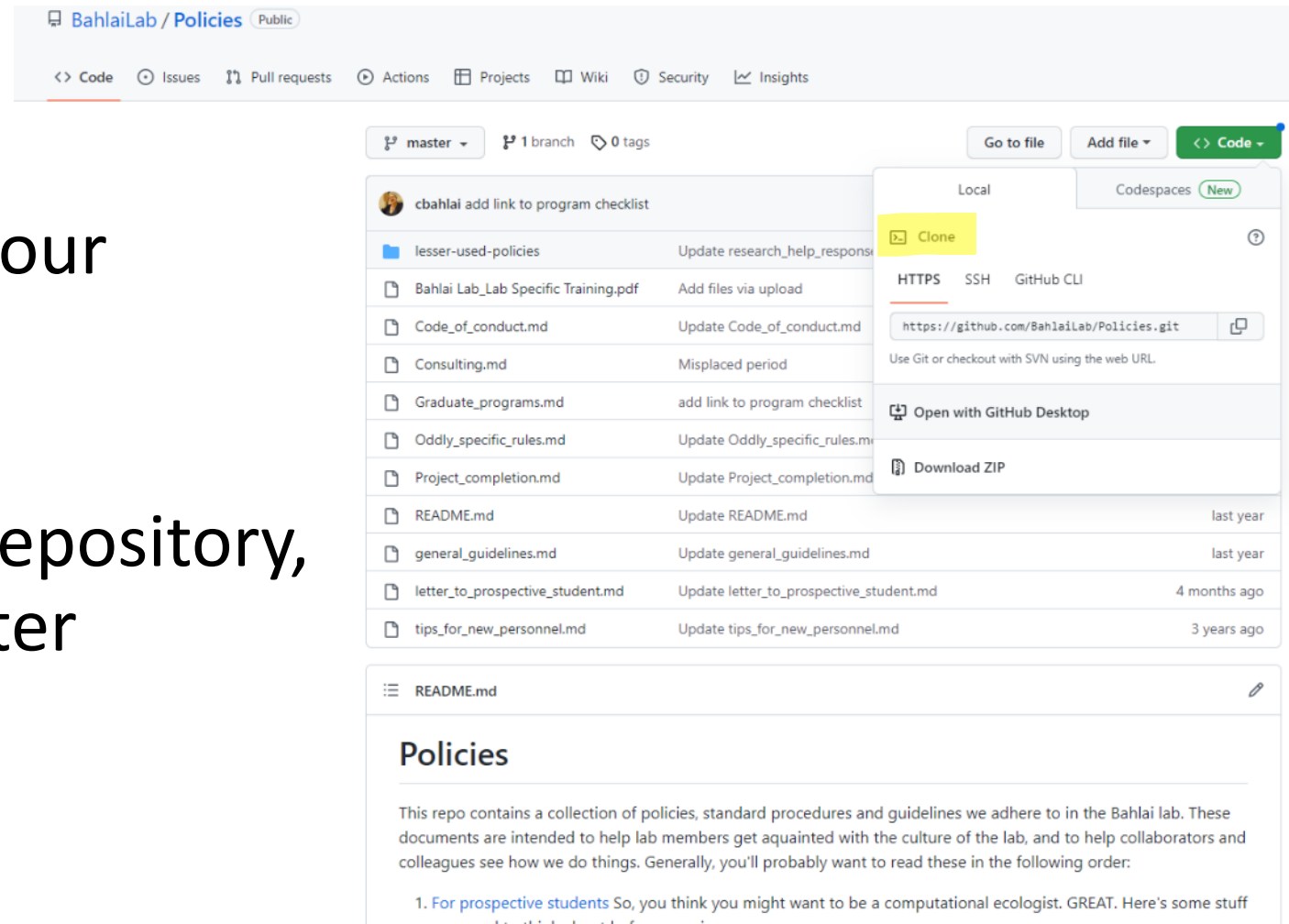
Additional features: Clone

Make a copy of a repository on your computer

- Access files locally

Clone a forked repository to your computer

Added as a collaborator to a repository, clone the files to your computer



Additional features: Issues

List tasks associated with the project that need to be accomplished

Label issues, assign them to yourself or collaborators, and track completion

The screenshot shows the GitHub interface for the repository 'kiperry / Ash_Beetle_Communities'. The 'Issues' tab is selected in the top navigation bar. A welcome message states: 'Welcome to issues! Issues are used to track todos, bugs, feature requests, and more. As issues are created, they'll appear here in a searchable and filterable list. To get started, you should [create an issue](#).' The search bar contains the filter 'is:issue is:open'. On the right, a sidebar lists 9 labels: bug, documentation, duplicate, enhancement, good first issue, help wanted, invalid, question, and wontfix, each with a brief description of its purpose.

9 labels	
bug	Something isn't working
documentation	Improvements or additions to documentation
duplicate	This issue or pull request already exists
enhancement	New feature or request
good first issue	Good for newcomers
help wanted	Extra attention is needed
invalid	This doesn't seem right
question	Further information is requested
wontfix	This will not be worked on

Review – What can we do with Git/GitHub?

- 1) Experiment on projects without breaking them – **Branch**
- 2) Make, assign, and keep track of tasks – **Issues**
- 3) Access existing projects made by others – **Fork or Clone**
- 4) Build on existing projects with collaborators – **Pull, Commit, Push**

Why use Git/GitHub with R?

Facilitates research transparency and reproducibility

Share data, code, and analyses with collaborators and scientific community

- Track development history over time

Aligns with open science journal requirements



Before the workshop, you should have...

Installed R and RStudio



Installed Git

Created an account on GitHub

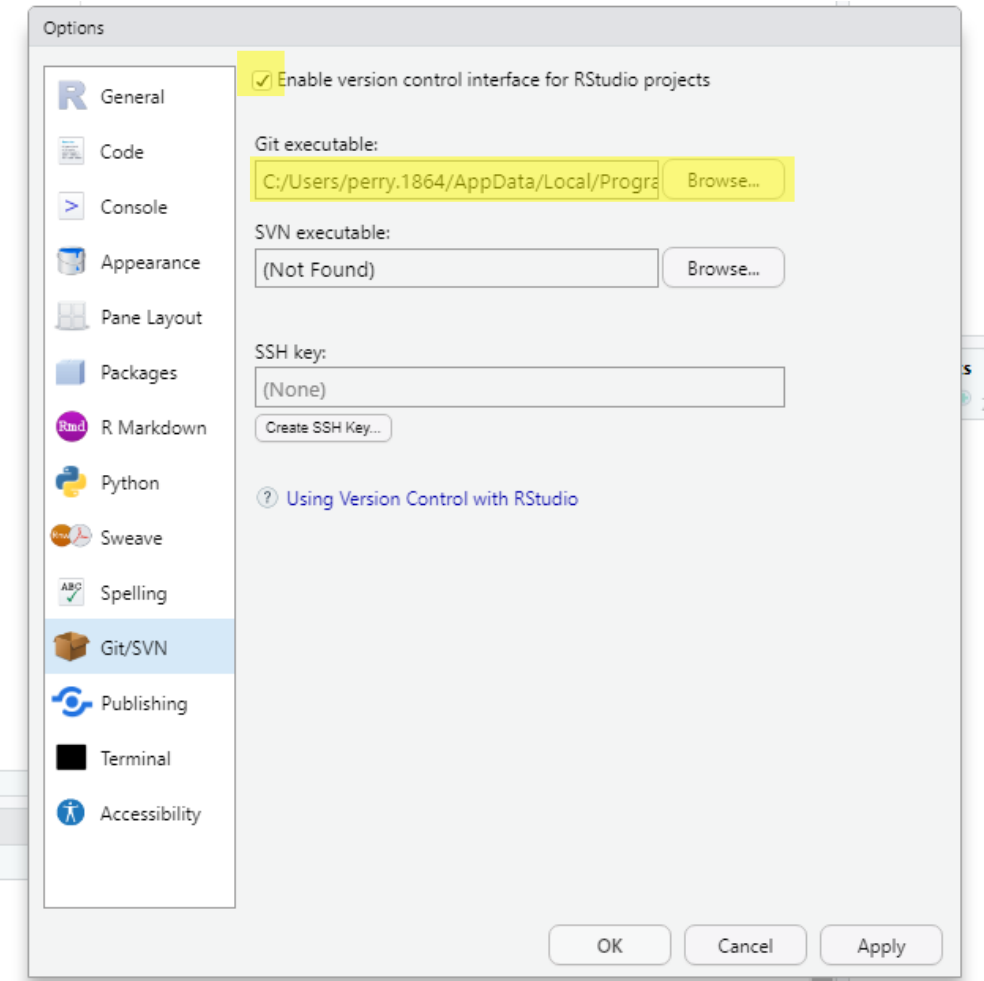
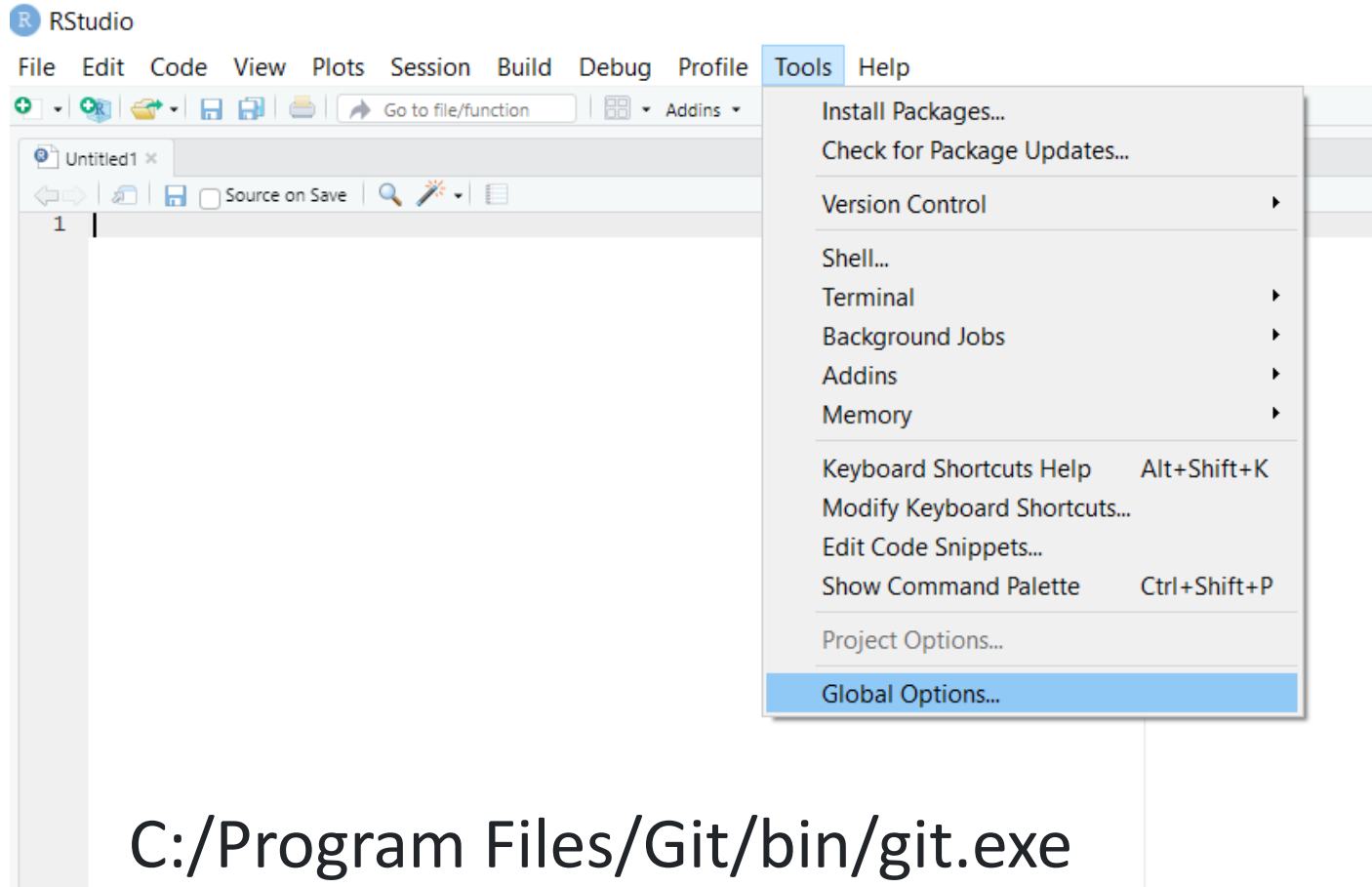


*May also be interested in GitDesktop (<https://desktop.github.com/>)

Integrate Git in RStudio

1) Check enable version control

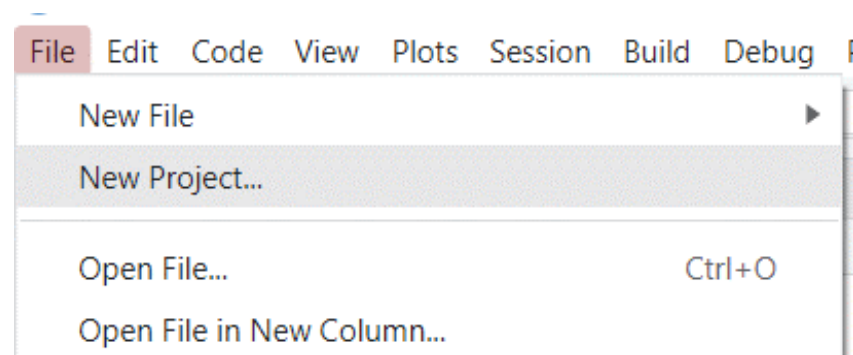
2) Set path to git.exe file



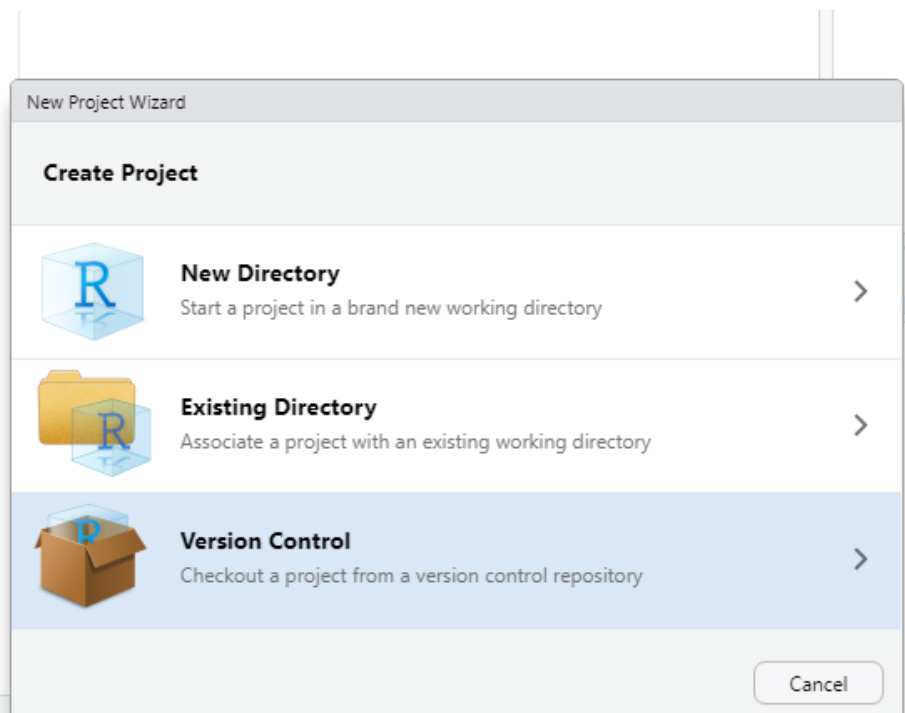
C:/Program Files/Git/bin/git.exe

Check to make sure Git and RStudio are linked

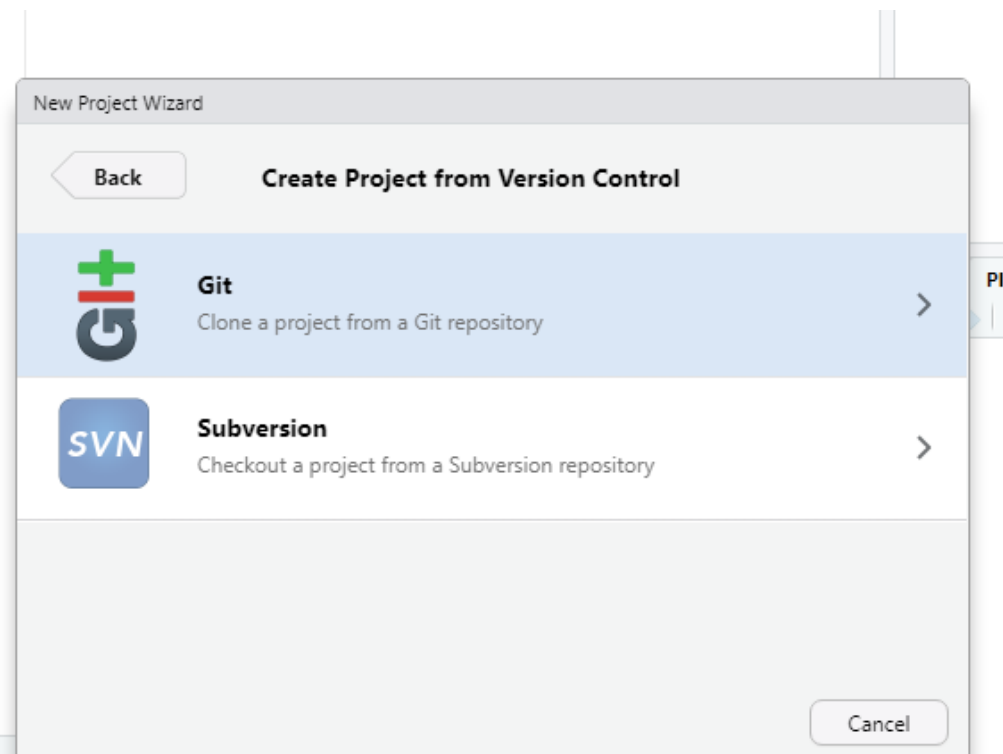
1



2



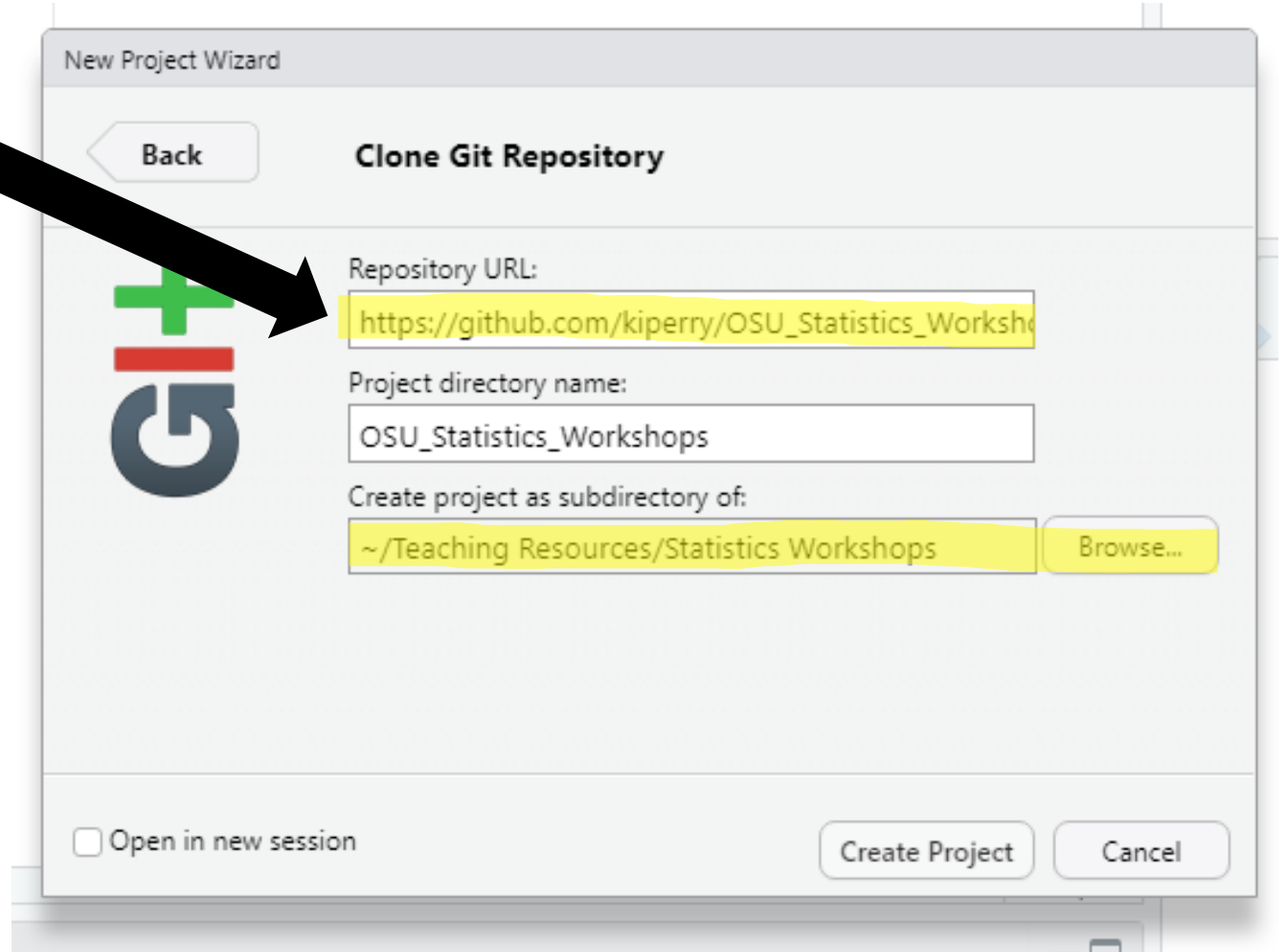
3



Clone a repository on GitHub to your computer

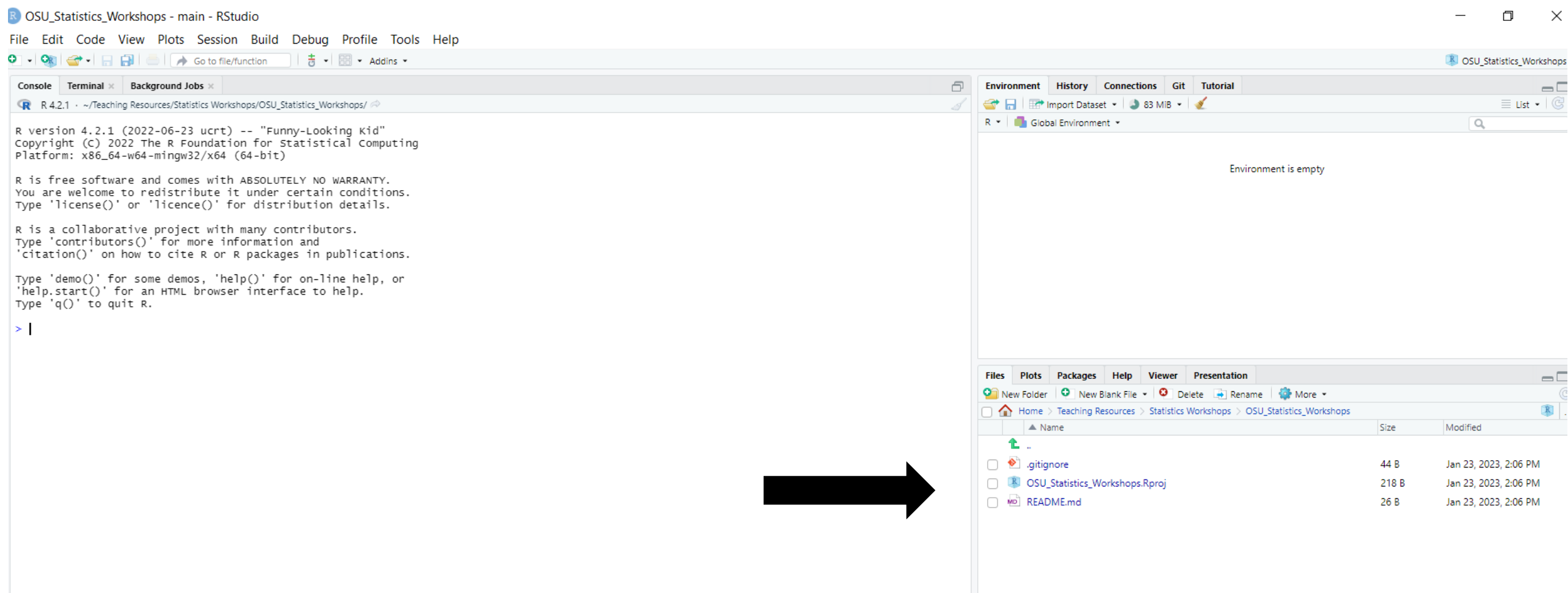
Copy and paste repo link

OSU_Statistics_Workshops



https://github.com/kiperry/OSU_Statistics_Workshops

Clone a repository on GitHub to your computer



The image shows the RStudio interface with the 'OSU_Statistics_Workshops' project open. The console displays the R version 4.2.1 startup message. The Environment pane shows an empty global environment. The Files pane shows the project structure with files like .gitignore, OSU_Statistics_Workshops.Rproj, and README.md.

OSU_Statistics_Workshops - main - RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Console Terminal Background Jobs

R 4.2.1 · ~/Teaching Resources/Statistics Workshops/OSU_Statistics_Workshops/

R version 4.2.1 (2022-06-23 ucrt) -- "Funny-Looking Kid"
Copyright (C) 2022 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> |

Environment History Connections Git Tutorial

Import Dataset 83 MIB

R Global Environment

Environment is empty

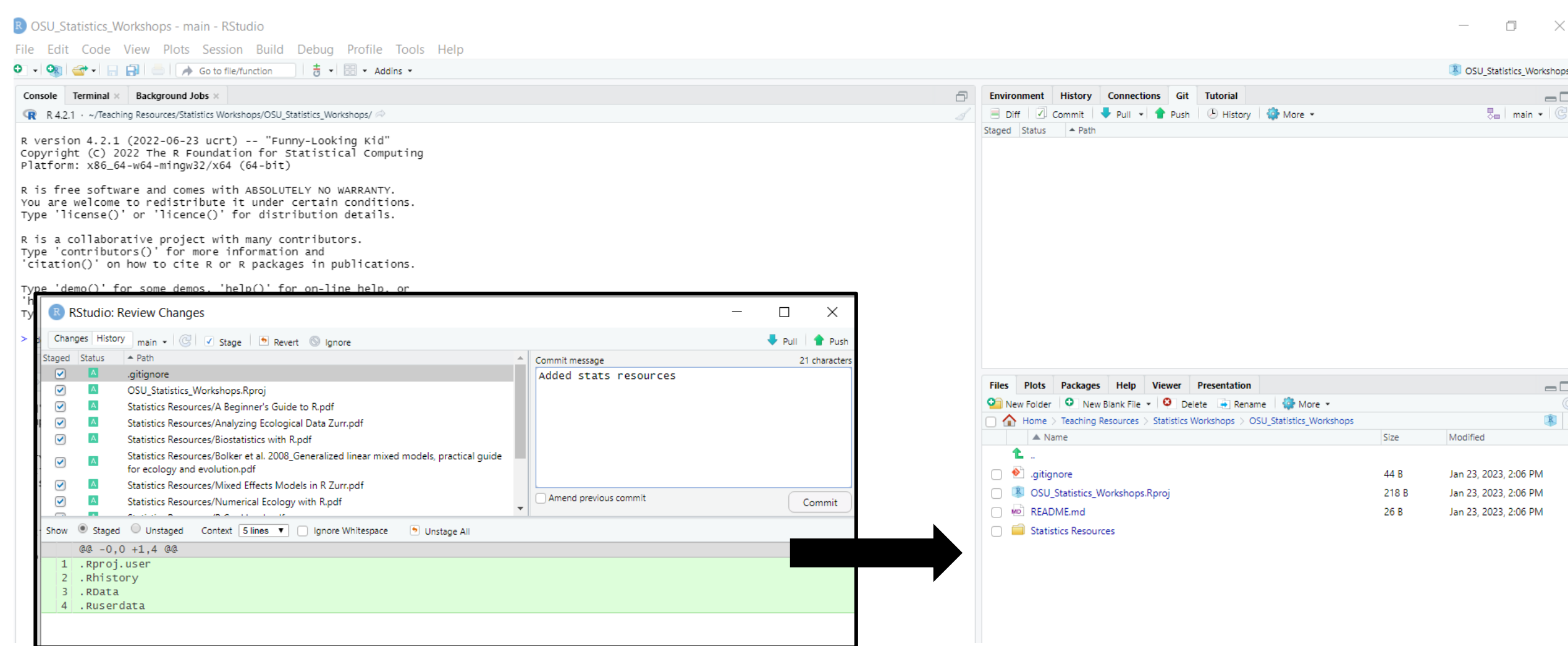
Files Plots Packages Help Viewer Presentation

New Folder New Blank File Delete Rename More

Home > Teaching Resources > Statistics Workshops > OSU_Statistics_Workshops

Name	Size	Modified
..		
.gitignore	44 B	Jan 23, 2023, 2:06 PM
OSU_Statistics_Workshops.Rproj	218 B	Jan 23, 2023, 2:06 PM
README.md	26 B	Jan 23, 2023, 2:06 PM

Clone a repository on GitHub to your computer



OSU_Statistics_Workshops - main - RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

R 4.2.1 · ~/Teaching Resources/Statistics Workshops/OSU_Statistics_Workshops/

R version 4.2.1 (2022-06-23 ucrt) -- "Funny-Looking Kid"
Copyright (C) 2022 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

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Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'?' for a list of topics, 'help()' for on-line help, or
'?' for a list of topics, 'help()' for on-line help, or

RStudio: Review Changes

Changes History main Stage Revert Ignore Pull Push

Staged Status Path

- ✓ .gitignore
- ✓ OSU_Statistics_Workshops.Rproj
- ✓ Statistics Resources/A Beginner's Guide to R.pdf
- ✓ Statistics Resources/Analyzing Ecological Data Zurr.pdf
- ✓ Statistics Resources/Biostatistics with R.pdf
- ✓ Statistics Resources/Bolker et al. 2008_Generalized linear mixed models, practical guide for ecology and evolution.pdf
- ✓ Statistics Resources/Mixed Effects Models in R.Zurr.pdf
- ✓ Statistics Resources/Numerical Ecology with R.pdf

Commit message 21 characters

Added stats resources

☐ Amend previous commit Commit

Show Staged Unstaged Context 5 lines Ignore Whitespace Unstage All

@@ -0,0 +1,4 @@

- 1 .Rproj.user
- 2 .Rhistory
- 3 .RData
- 4 .Ruserdata

Files Plots Packages Help Viewer Presentation

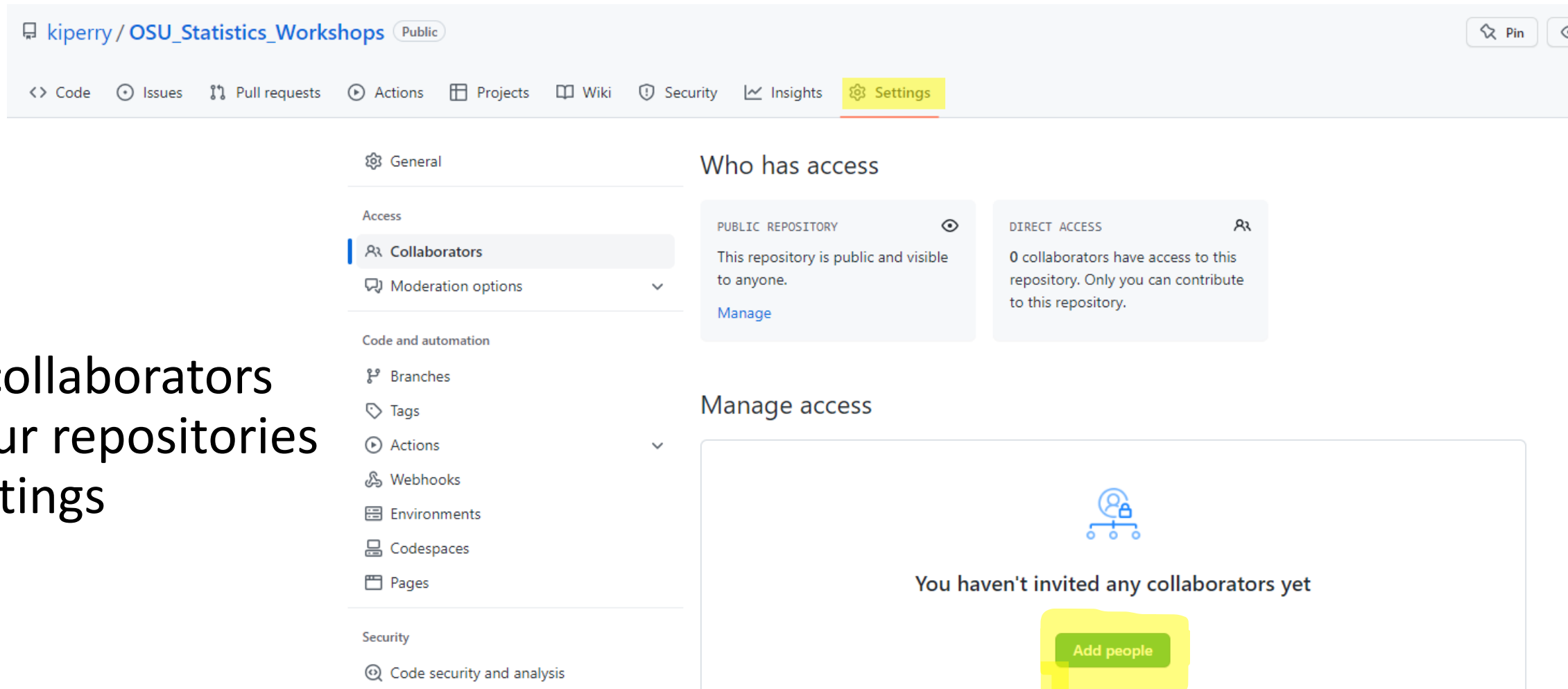
New Folder New Blank File Delete Rename More

Home > Teaching Resources > Statistics Workshops > OSU_Statistics_Workshops

Name	Size	Modified
..		
.gitignore	44 B	Jan 23, 2023, 2:06 PM
OSU_Statistics_Workshops.Rproj	218 B	Jan 23, 2023, 2:06 PM
README.md	26 B	Jan 23, 2023, 2:06 PM
Statistics Resources		

You can clone any public repositories on GitHub

However, only collaborators can make changes (via push)

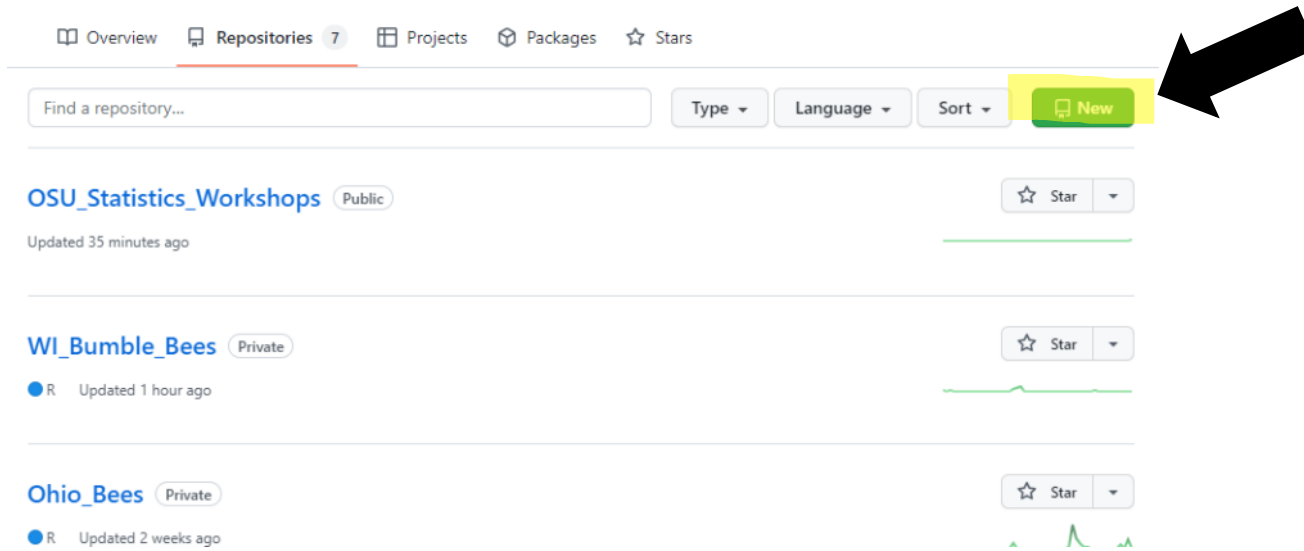


Add collaborators
to your repositories
in settings

Create your own repository!

Create your own repository!

1. Log into your GitHub account, go to the Repositories tab, click New



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Repository template

Start your repository with a template repository's contents.

No template ▾

Owner *

kiperry ▾

Repository name *

PNR_Beetles ✓

Great repository names are short and memorable. Need inspiration? How about [crispy-train](#)?

Description (optional)

☒ Public

Anyone on the internet can see this repository. You choose who can commit.

☐ Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☒ Add a README file

This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: None ▾

Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)


License: None ▾

This will set `main` as the default branch. Change the default name in your [settings](#).

i You are creating a public repository in your personal account.

Create repository

Edit your README file

 kiperry / PNR_Beetles Public


[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

main


1 branch

0 tags

[Go to file](#) [Add file](#) [Code](#)

 kiperry Initial commit

csf2a4c 1 minute ago 1 commit

 README.md

Initial commit

1 minute ago

README.md

PNR_Beetles

About

No description, website, or topics provided.

Readme

0 stars

1 watching

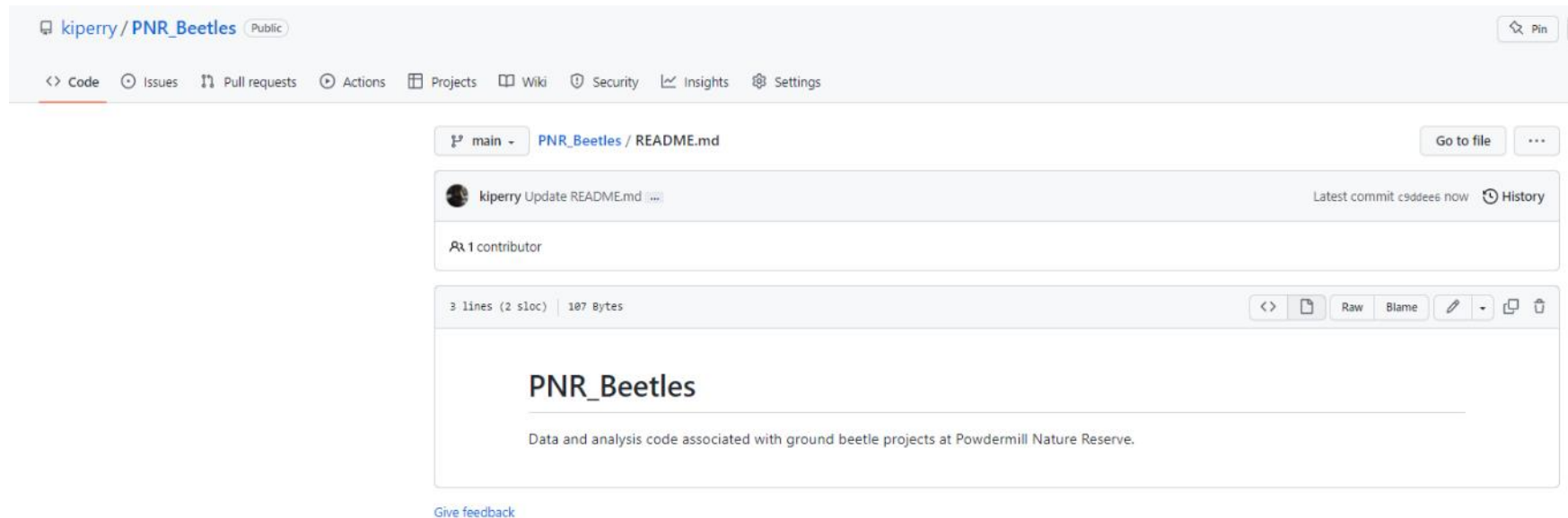
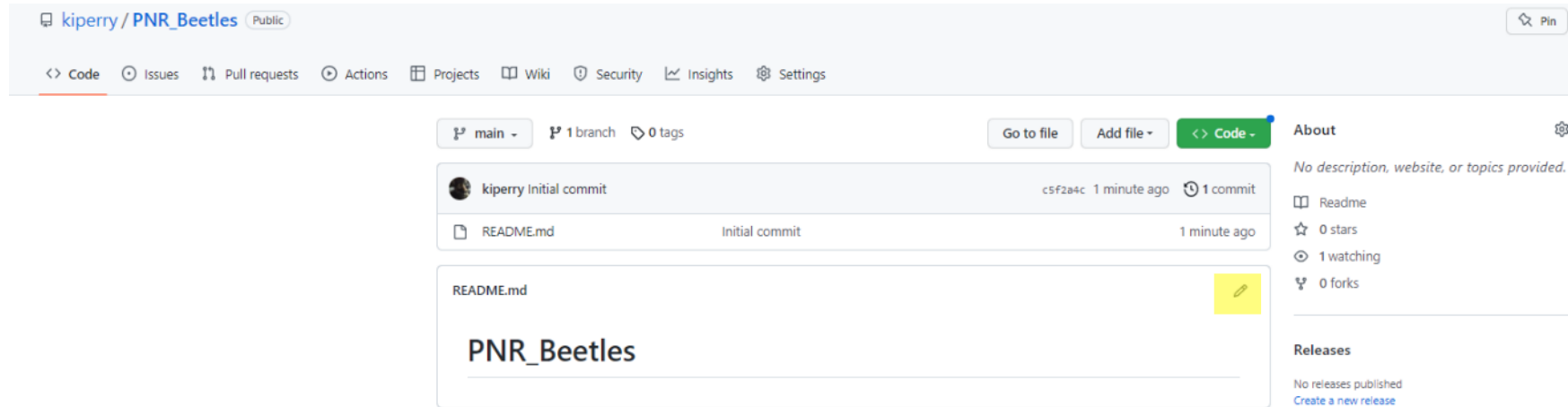
0 forks

Releases

No releases published

[Create a new release](#)

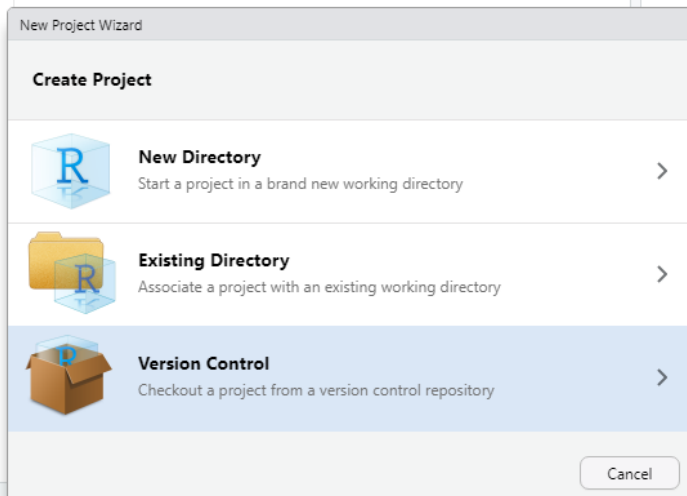
Edit your README file



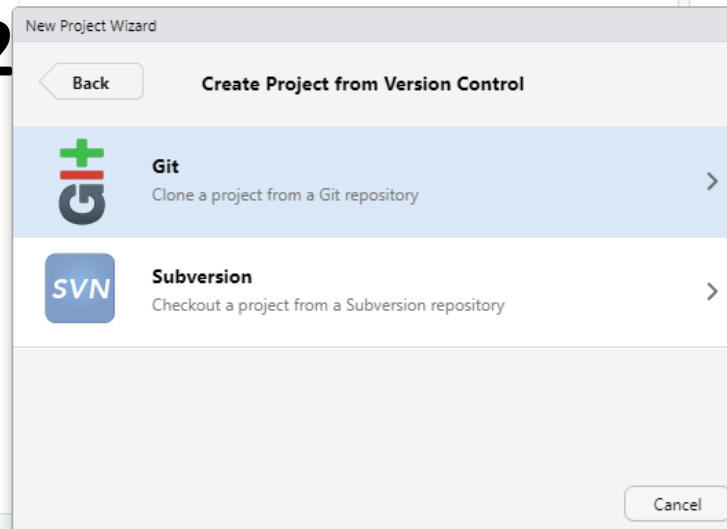
Update readme file
with a commit

Clone your newly created GitHub repository using R

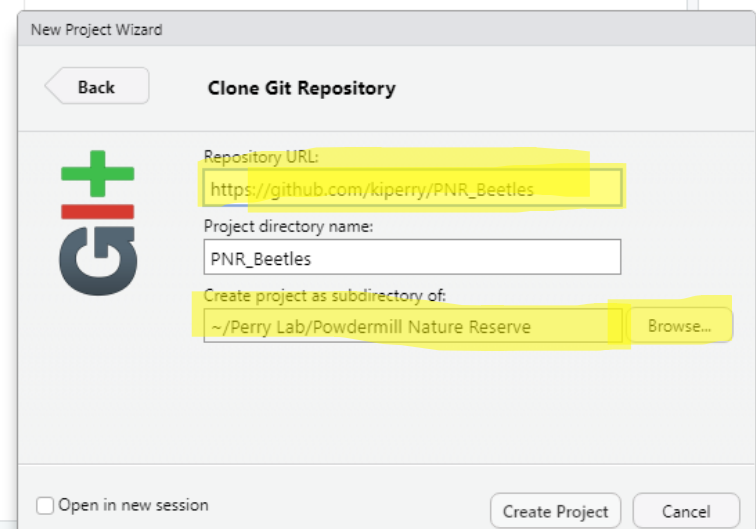
1



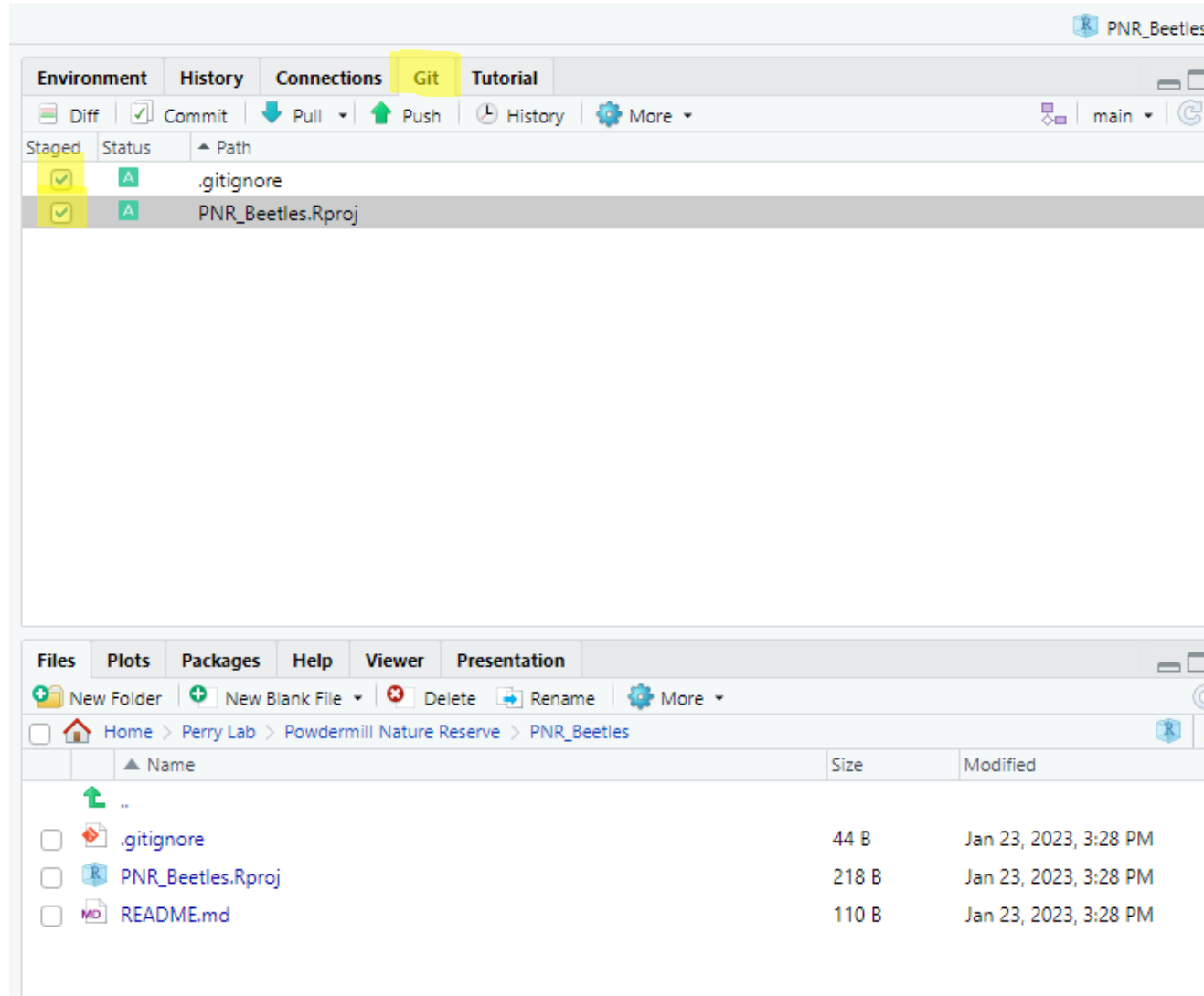
2



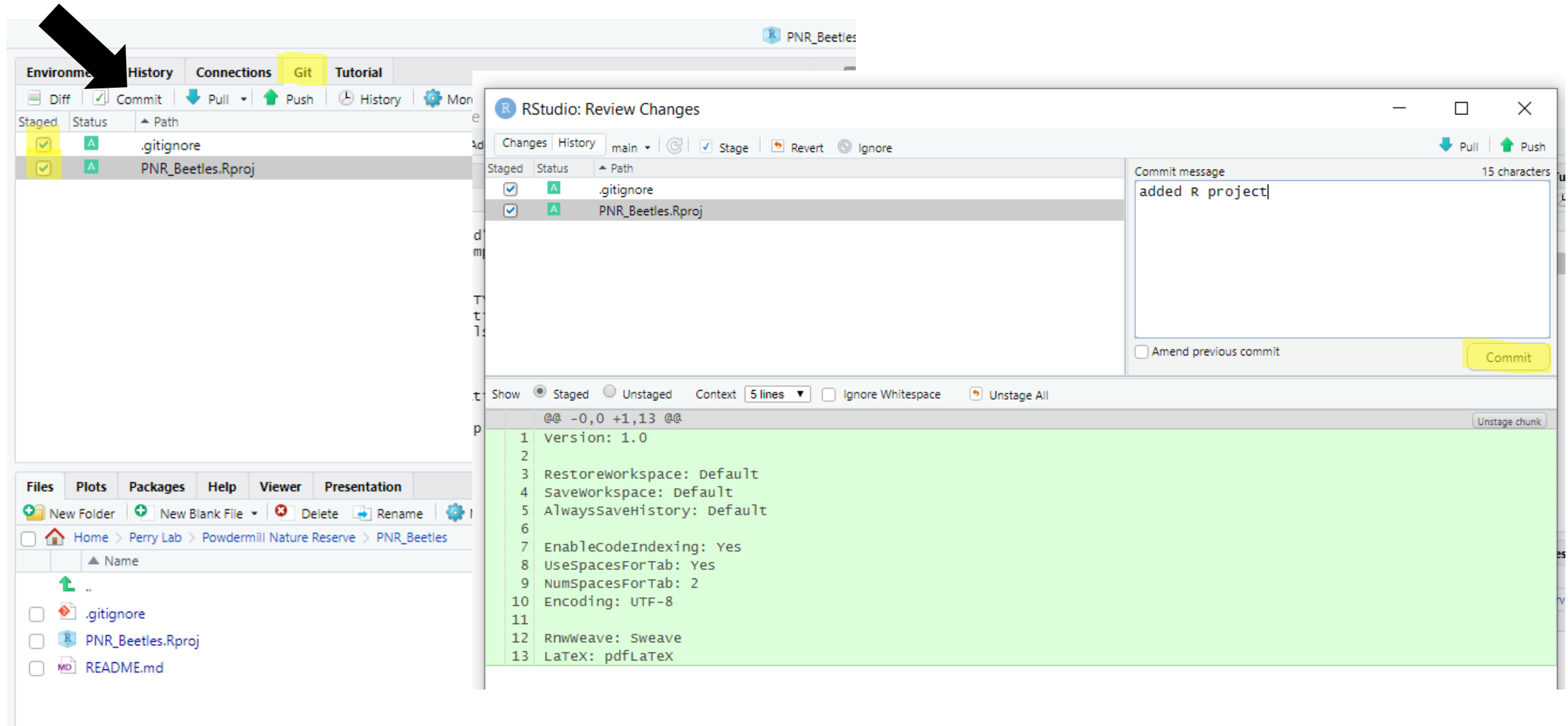
3



Select Git tab and make a commit to save changes



Select Git tab and make a commit to save changes



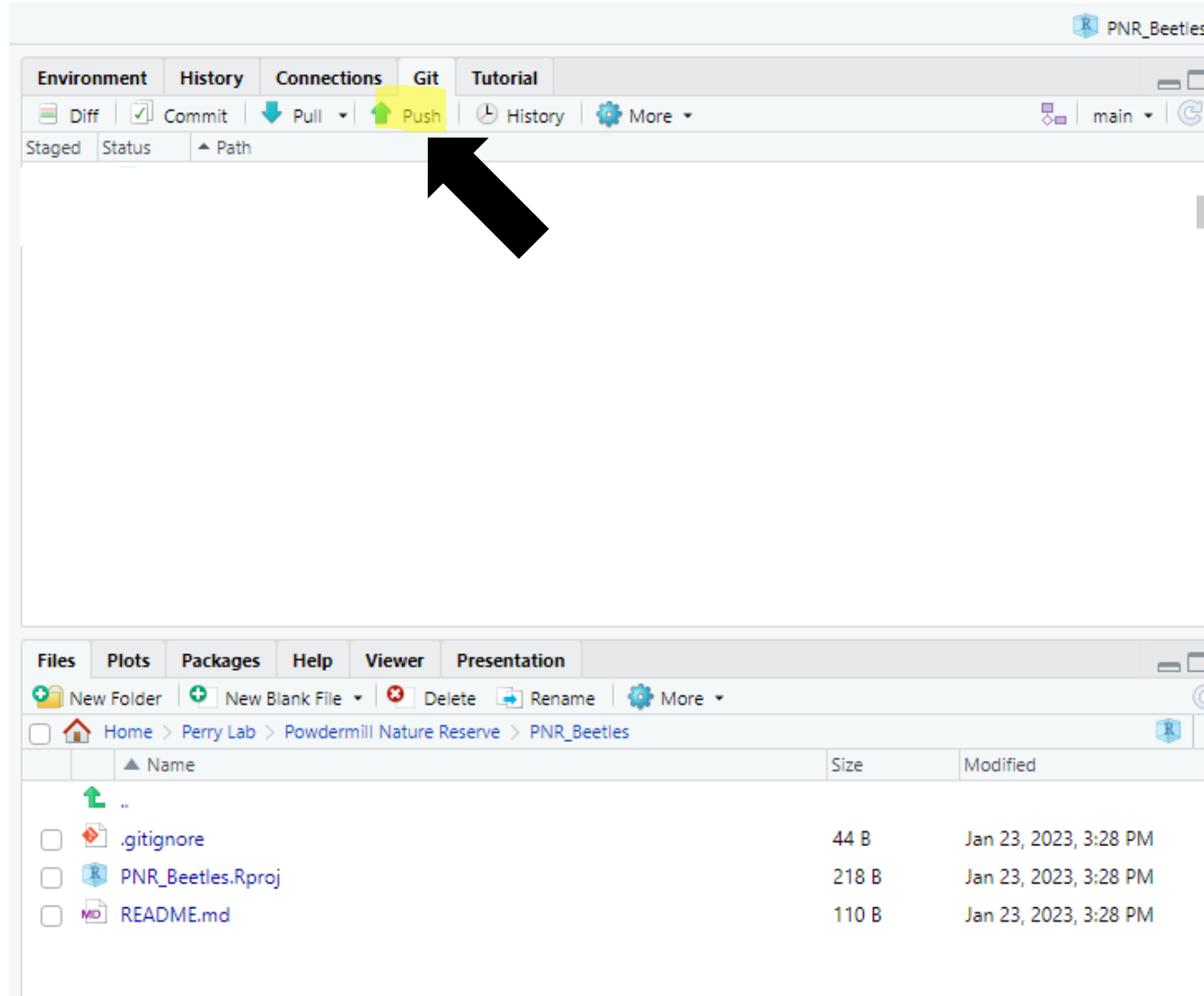
The screenshot shows the RStudio interface with the **Git** tab selected in the top toolbar. A large black arrow points to the **Git** tab. The **Staged** pane on the left shows two files: `.gitignore` and `PNR_Beetles.Rproj`, both with a green checkmark and a green 'A' icon. The **Files** pane at the bottom left shows the project structure: `Home > Perry Lab > Powdermill Nature Reserve > PNR_Beetles`. The files listed are `..`, `.gitignore`, `PNR_Beetles.Rproj`, and `README.md`. The **RStudio: Review Changes** window is open, showing the same two files in the **Staged** pane. The **Commit message** field contains the text `added R project`. The **Commit** button is highlighted in yellow. The **Diff** pane at the bottom shows the changes to `PNR_Beetles.Rproj`, with a green background and the following content:

```
@@ -0,0 +1,13 @@
1 Version: 1.0
2
3 Restoreworkspace: Default
4 Saveworkspace: Default
5 AlwaysSaveHistory: Default
6
7 EnableCodeIndexing: Yes
8 UsespacesForTab: Yes
9 NumSpacesForTab: 2
10 Encoding: UTF-8
11
12 Rnwweave: Sweave
13 LaTeX: pdfLaTeX
```

Select Git tab and make a commit to save changes



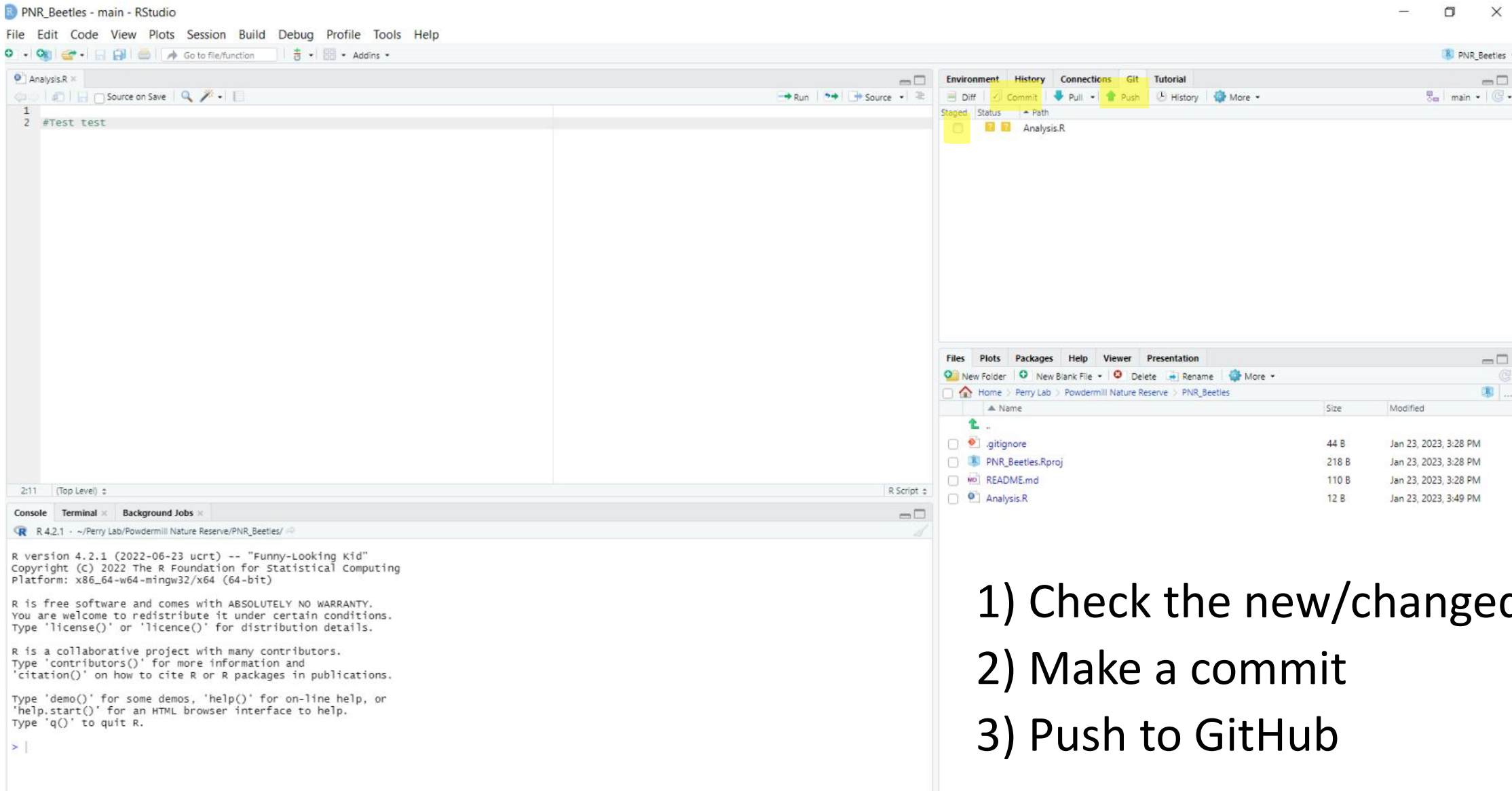
Push changes to your repository on GitHub



Link your newly created GitHub repository with R




Create a new r script and add to your repository



- 1) Check the new/changed file
- 2) Make a commit
- 3) Push to GitHub

New R files now in GitHub repository

 kiperry / **PNR_Beetles** Public

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

main ▾


1 branch





0 tags


Go to file

Add file ▾

<> Code ▾

 kiperry added r script 2ce02bf now 4 commits

 .gitignore	added R project	9 minutes ago
 Analysis.R	added r script	now
 PNR_Beetles.Rproj	added R project	9 minutes ago
 README.md	Update README.md	32 minutes ago

README.md 

PNR_Beetles

Data and analysis code associated with ground beetle projects at Powdermill Nature Reserve.

Review changes in your files over time

Version control that documents development history over time

The screenshot displays the RStudio interface with the 'Review Changes' window open. The window shows a list of commits with columns for Subject, Author, Date (UTC), and SHA. The current commit is 'updated code' by Kayla I Perry, dated 2023-01-23, with SHA 974b0cbf. Below the commit list, the file 'Analysis.R' is shown with a diff view. The diff highlights changes in the file, including the addition of a newline at the end of the file and the addition of a new line with the text '#another update'.

Subject	Author	Date (UTC)	SHA
HEAD -> refs/heads/main origin/main origin/HEAD updated code	Kayla I Perry <kiperry1488@gmail.com>	2023-01-23	974b0cbf
added r script	Kayla I Perry <kiperry1488@gmail.com>	2023-01-23	2ce02bf9
added R project	Kayla I Perry <kiperry1488@gmail.com>	2023-01-23	3124a221
Update README.md	Kayla I Perry <kiperry1488@gmail.com>	2023-01-23	c9ddee66
Initial commit	Kayla I Perry <kiperry1488@gmail.com>	2023-01-23	c5f2a4c6

SHA: 974b0cbfee447179394fc7ca8a7143dd34623261
Author: Kayla I Perry <kiperry1488@gmail.com>
Date (UTC): 2023-01-23 20:55
Subject: updated code
Parent: 2ce02bf96a3753219aaab7e31664b82ba783fd0b

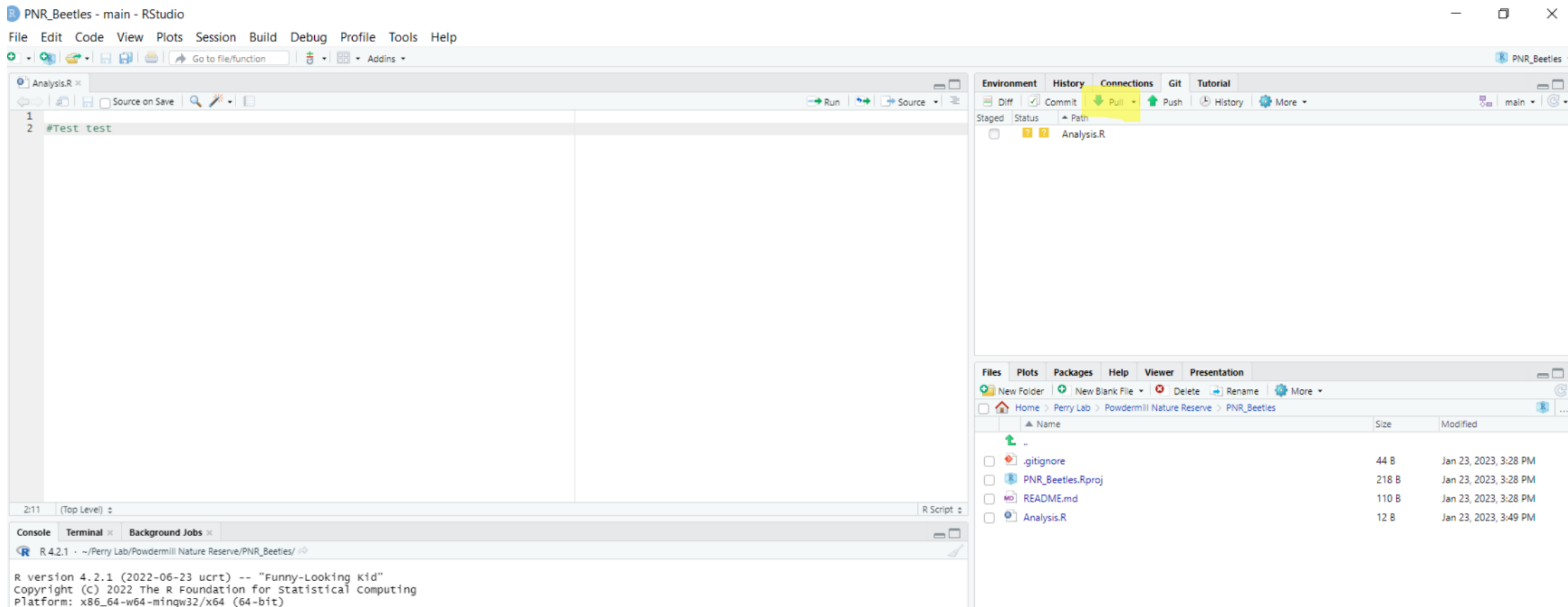
Analysis.R

```
@@ -1,2 +1,4 @@
1 1
2  #Test test
   No newline at end of file
3  #Test test
4  #another update
   No newline at end of file
```

The right side of the screenshot shows the RStudio file explorer with the 'PNR_Beetles' project open. The file list includes .gitignore, PNR_Beetles.Rproj, README.md, and Analysis.R, with their respective sizes and modification dates.

If a collaborator is added to your repository....

Start by pulling changes from the online repository



Submitting your manuscript for review?

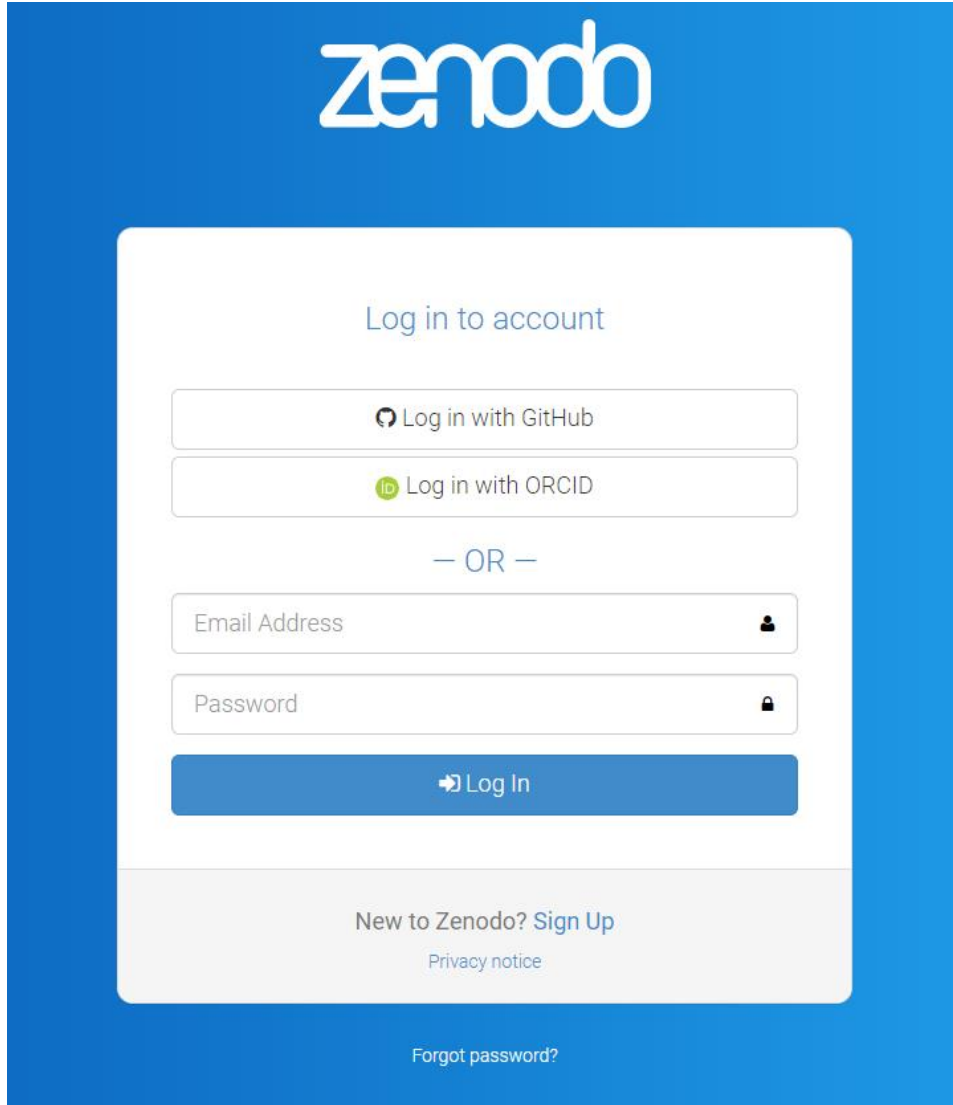
Include your GitHub repository link in your open research/data availability statement

Many journals now require submission of data and code for peer-review

23 **Open Research Statement:** Data are already published and publicly available, with those items properly
24 cited in this submission. This submission uses novel code, which is provided in an external repository to
25 be evaluated during the peer review process and are available at
26 https://github.com/BahlaiLab/Ohio_ladybeetles. If this paper is accepted for publication, data and code
27 will be permanently archived in Zenodo.

Link GitHub repository with Zenodo for DOI

Developed under European OpenAIRE Program
Operated by CERN



The Zenodo login page features a blue header with the Zenodo logo. Below the logo is a white box containing the login form. The form includes a 'Log in to account' heading, two buttons for 'Log in with GitHub' and 'Log in with ORCID', and a separator '— OR —'. Below the separator are input fields for 'Email Address' and 'Password', followed by a blue 'Log In' button. At the bottom of the white box are links for 'New to Zenodo? Sign Up' and 'Privacy notice'. At the very bottom of the page is a link for 'Forgot password?'.

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Log in to account

Log in with GitHub

Log in with ORCID

— OR —

Email Address

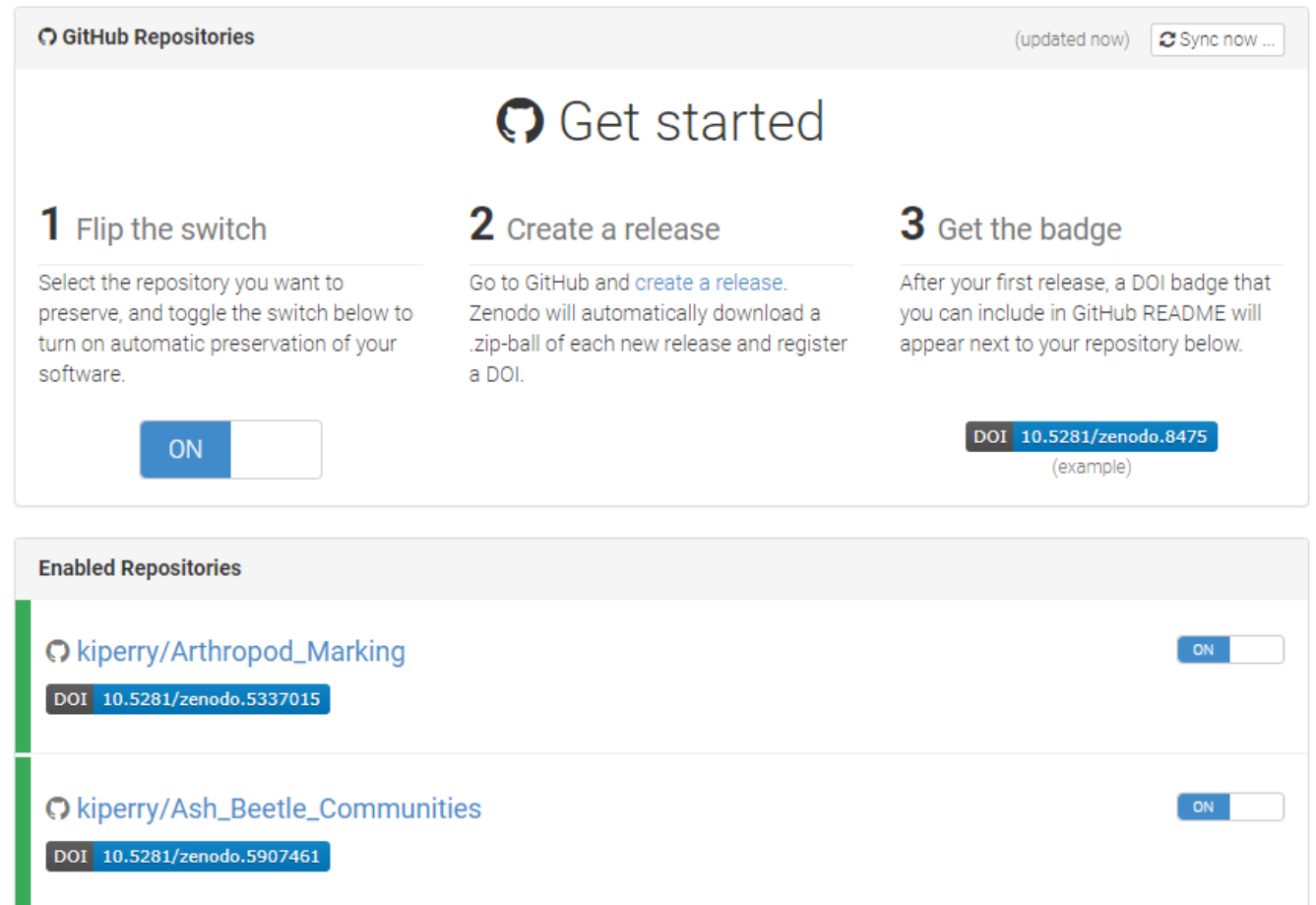
Password

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The GitHub Repositories page has a grey header with the title 'GitHub Repositories', a '(updated now)' status, and a 'Sync now ...' button. The main content area is titled 'Get started' and contains three numbered steps: 1. Flip the switch, 2. Create a release, and 3. Get the badge. Step 1 includes a switch labeled 'ON'. Step 2 provides instructions on creating a release. Step 3 shows an example DOI badge: 'DOI 10.5281/zenodo.8475 (example)'. Below the steps is a section titled 'Enabled Repositories' which lists two repositories: 'kiperry/Arthropod_Marking' and 'kiperry/Ash_Beetle_Communities'. Each repository has a switch labeled 'ON' and a corresponding DOI badge: 'DOI 10.5281/zenodo.5337015' and 'DOI 10.5281/zenodo.5907461'.

GitHub Repositories (updated now) Sync now ...

Get started

- 1 Flip the switch**
Select the repository you want to preserve, and toggle the switch below to turn on automatic preservation of your software.
☒ ON
- 2 Create a release**
Go to GitHub and [create a release](#). Zenodo will automatically download a .zip-ball of each new release and register a DOI.
- 3 Get the badge**
After your first release, a DOI badge that you can include in GitHub README will appear next to your repository below.
DOI 10.5281/zenodo.8475
(example)

Enabled Repositories

 kiperry/Arthropod_Marking	<input checked="" type="checkbox"/> ON
DOI 10.5281/zenodo.5337015	
 kiperry/Ash_Beetle_Communities	<input checked="" type="checkbox"/> ON
DOI 10.5281/zenodo.5907461	

Software and Data Products category on your CV!

January 26, 2022

Dataset Open Access

Edit

New version

44

views

2

downloads

[See more details...](#)

Study data and analysis code

 Kayla I Perry;  Christopher B Riley

Study data and R code, first release v1.0

This dataset supports the following study:

Perry, KI, CB Riley, F Fan, J Radl, DA Herms, and MM Gardiner. The value of hybrid and nonnative ash for the conservation of ash specialists is limited following late stages of emerald ash borer invasion, Agricultural and Forest Entomology, doi.org/10.1111/afe.12499

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Preview

Ash_Beetle_Communities-v1.0.zip

kiperry-Ash_Beetle_Communities-91a335c

◦ .gitignore	40 Bytes
◦ Ash CG HBeetles v3_community analyses.R	35.2 kB
◦ Ash Insect R code 2020.R	6.8 kB
◦ Ash-Beetle-Communities.Rproj	209 Bytes
◦ Beetle Data_2020_Final.xlsx	91.5 kB
◦ Data_Bark_Spray_Herbivores.csv	25.1 kB
◦ Data_Bark_Spray_NHerbivores.csv	23.1 kB
◦ Data_Herbivory.csv	27.8 kB
◦ Figures	
▪ NBetaDiversity_Bark_Ash.png	10.1 kB
▪ NBetaDiversity_Spray_Ash.png	10.3 kB
▪ NMDS_Herbivores_Bark_Ash.png	34.3 kB
▪ NMDS_Herbivores_Spray_Ash.png	32.9 kB
▪ NMDS_NHerbivores_Canopy_Bark_Ash.png	64.1 kB
▪ NSpecies_Rarefaction_Ash.png	27.4 kB
◦ README.md	257 Bytes
◦ Reports	

Files (428.0 kB)

Name	Size	
kiperry/Ash_Beetle_Communities-v1.0.zip	428.0 kB	 Preview  Download
md5:55e0cc39fb6c5ee28ef1a4ffd5c4414e 		

Available in

GitHub

Indexed in

OpenAIRE

Publication date:

January 26, 2022

DOI:

DOI 10.5281/zenodo.5907461

Published in:

Agricultural and Forest Entomology;
doi.org/10.1111/afe.12499.

Related identifiers:

Supplement to
https://github.com/kiperry/Ash_Beetle_Communities/tree/v1.0

License (for files):

 Creative Commons Attribution Share Alike 4.0 International

Update readme file on GitHub with DOIs

kiperry / Ash_Beetle_Communities Public

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 1 branch 1 tag

Go to file Add file <> Code

kiperry Update README.md	17ed6b7 on Mar 29, 2022	16 commits
Figures	update files	last year
Reports	update files	last year
.gitignore	Added files	2 years ago
Ash CG HBeetles v3_community anal...	update files	last year
Ash Insect R code 2020.R	update files	last year
Ash-Beetle-Communities.Rproj	Added files	2 years ago
Beetle Data_2020_Final.xlsx	update files	last year
CITATION.cff	Update CITATION.cff	last year
Data_Bark_Spray_Herbivores.csv	Added files	2 years ago
Data_Bark_Spray_NHerbivores.csv	updated analyses to focus on native herbivores only	2 years ago
Data_Herbivory.csv	update files	last year
README.md	Update README.md	10 months ago

README.md

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Perry, KI and CB Riley. 2022. kiperry/Ash_Beetle_Communities: Data and analysis R code (v1.0). Zenodo. <https://doi.org/10.5281/zenodo.5907461>

Perry, KI, CB Riley, F Fan, J Radl, DA Herms, and MM Gardiner. The value of hybrid and nonnative ash for the conservation of ash specialists is limited following late stages of emerald ash borer invasion, Agricultural and Forest Entomology, <https://doi.org/10.1111/afe.12499>

About

No description, website, or topics provided.

Readme Cite this repository 0 stars 1 watching 0 forks

Releases 1

Data and analysis R code (Latest) on Jan 26, 2022

Packages

No packages published Publish your first package

Languages

R 100.0%