

# Welcome to this Training Session with Theiagen Genomics



We will soon be getting started



# **Software Development Practices for Public Health Bioinformatics**

## Week 00: Supplemental Session

A Mid-Atlantic Workforce Development Offering Provided by the Division of Consolidated  
Laboratory Services in Collaboration with Theiagen Genomics

# Training Workshop Resources

## Training Information, Communication, and Support

- **GitHub Repo** created to host training resources and information:
  - <https://github.com/theiagen/Mid-Atlantic-SDP4PHB-2025>
- **Support contact:**
  - support@theiagen.com

# Training Objectives

## Software Development Practices for Public Health Bioinformatics

- Knowledge of **best software development practices applied to public health bioinformatics** such as **design documents** and the use of **integrated development environments**
- Proficiency in using **version control systems** for collaborative development
- Ability to deploy **continuous integration** and acceptance testing
- Understanding **workflow managers** and how to construct an analysis pipeline

# Training Format

## Virtual Training Workshop

All sessions hosted via Zoom. Below are key dates for this workshop (all in Eastern Time):

- **Tuesday (x4), February 04 - 25, 2025, 11:00 am**
  - Training Lectures & Exercises (90m)
- **Thursdays (x4), February 06 - 27, 2025, 11:00 am**
  - Training Office Hours (60m)

*All participants should have received a  
**Calendar invite** with Zoom call-in information*

# GitPod Access for Hands-On Exercises

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## Prerequisites for Hands-On Exercises

In addition to lectures, this course consists of several hands-on exercises to reinforce the coursework material. To participate in these exercises, trainees will need the following resources:

1. GitHub Account
2. GitPod Account
3. GitPod Configuration for Public Repositories
4. GitPod Workspace

**Detailed instructions** for setting these up are available in our course [GitHub repository](#)

# GitPod Classic

## Alternative to Gitpod Fex

Use GitPod to create a dev environment:

- Navigate to <https://gitpod.io/>
- Select "Continue with GitHub", authorize Gitpod to access your GitHub account, and sign in with your credentials
- Start New Workspace
- Set the repository to <https://github.com/theiagen/Mid-Atlantic-SDP4PHB-2025/>
- Select the default Editor and default Class, click "Continue"

**Detailed instructions** for setting these up are available in our course [GitHub repository](#)



# GitPod Classic - Configuration for Public Repositories



# GitPod Classic - Configuration for Public Repositories

## User Settings

Manage your personal account settings.

Account

Notifications

Variables

SSH Keys




**Git Providers**

Access Tokens

Preferences

### Git Providers




Manage your permissions to the available Git provider integrations. [Learn more](#)

 <b>GitLab</b> gitlab.com	— Username	— Permissions	⋮
 <b>GitHub</b> github.com	libuitkg Username	user:email Permissions	⋮
 <b>Bitbucket Cloud</b> bitbucket.org	— Username	— Permissions	⋮

# GitPod Classic - Configuration for Public Repositories

## Git Providers

Manage your permissions to the available Git provider integrations. [Learn more](#)

 <b>GitLab</b> gitlab.com	— Username	— Permissions	⋮
 <b>GitHub</b> github.com	libuitkg Username	user:email Permissions	⋮
 <b>Bitbucket Cloud</b> bitbucket.org	— Username	— Permissions	⋮

Edit Permissions

Manage on github.com

## Edit Permissions



Configure provider permissions.

- ☒ **user:email**  
Read-only access to your email addresses
- ☐ **read:user**  
Read-only access to your profile information
- ☒ **public\_repo**  
Write access to code in public repositories and organizations
- ☐ **repo**  
Read/write access to code in private repositories and organizations
- ☐ **read:org**  
Read-only access to organizations (used to suggest organizations when forking a repository)
- ☐ **workflow**  
Allow updating GitHub Actions workflow files

Update Permissions

# GitPod Classic - Configuration for Public Repositories

