

VS Code

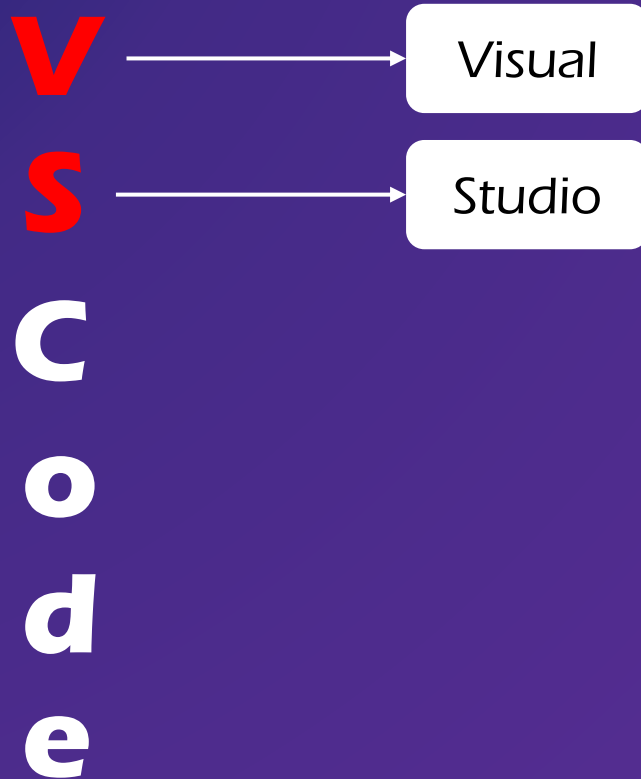
**Advanced Molecular Detection
Southeast Region Bioinformatics**

This resource was made possible through funding provided under the Epidemiology and Laboratory Capacity for Prevention and Control of Emerging Infectious Diseases (ELC) Cooperative Agreement (CK24-0002), Project D: Advanced Molecular Detection to the Florida Department of Health. The conclusions, findings, and opinions expressed by authors do not necessarily reflect the official position of the U.S. Department of Health and Human Services, the Public Health Service, or the Centers for Disease Control and Prevention

Updates

- Materials from the 2-day in-person AMD training are on our GitHub!
 - [southeast-region/meetings/amd training 2025 at master · StaPH-B/southeast-region](#)
- The 15-week virtual training has started! Join us Fridays at 12 EST
 - If you never received the link, please send us an email!

What is **VS** Code?



- Free, Open-Source Editor From Microsoft
- Supports many programming languages
- User-Friendly Interface
- Integrated Terminal
- Runs on Windows, macOS, and Linux

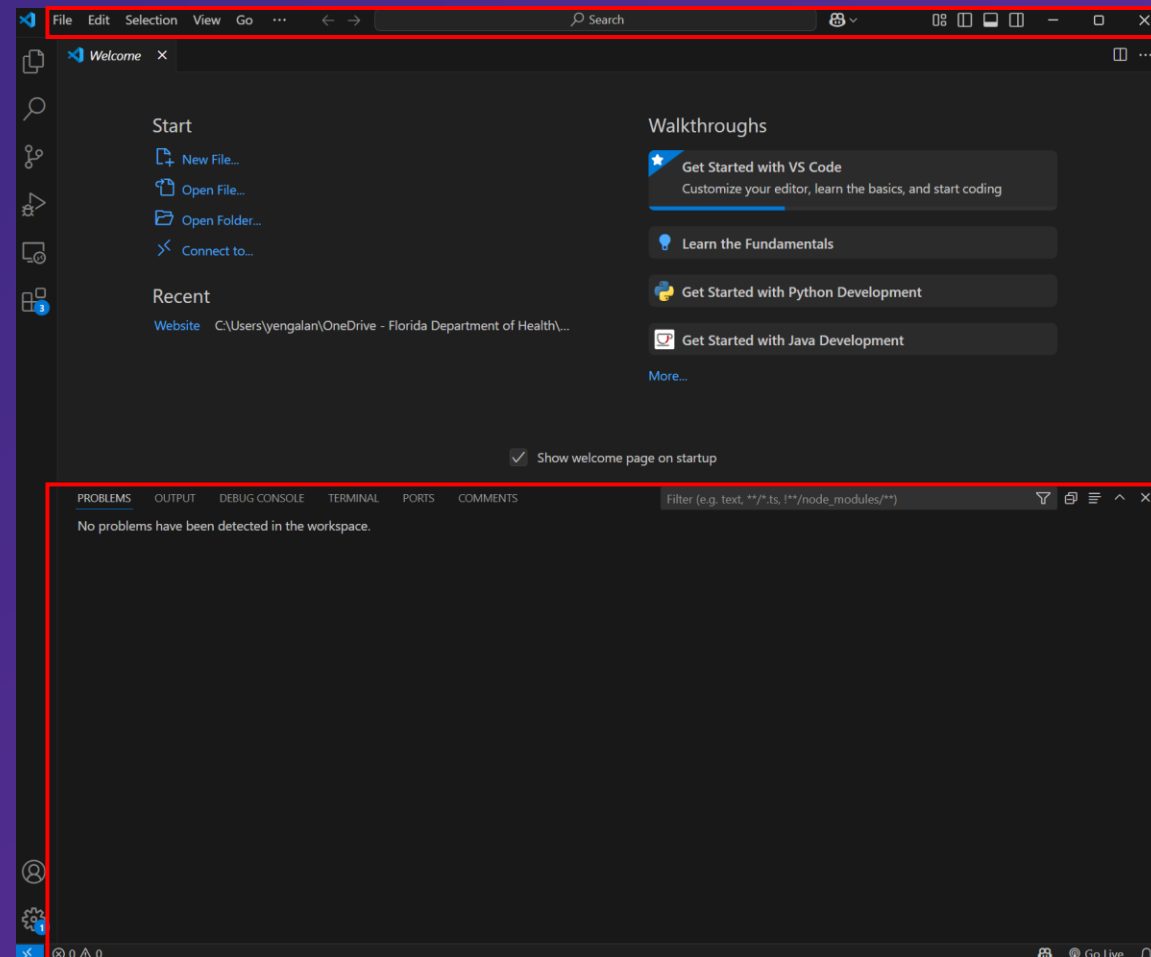


Installing **VS** Code

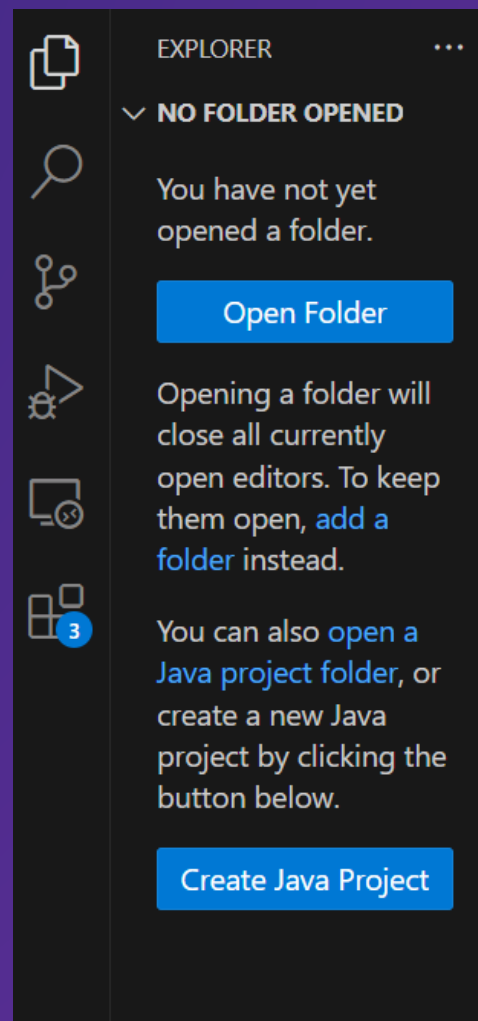
1. Go to: <https://code.visualstudio.com/>
2. Choose your Operating System
3. Quick Install
4. (Optional) Install extensions during setup



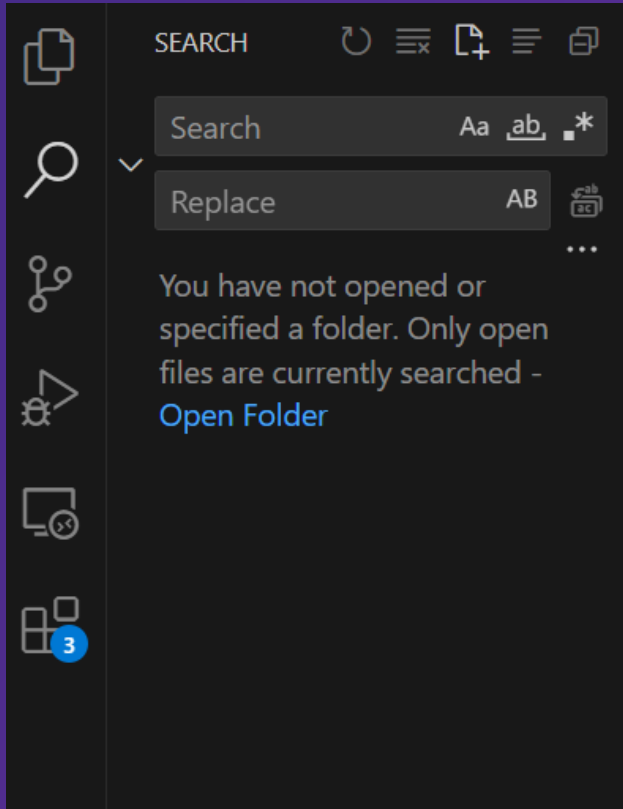
VS Code Interface Overview



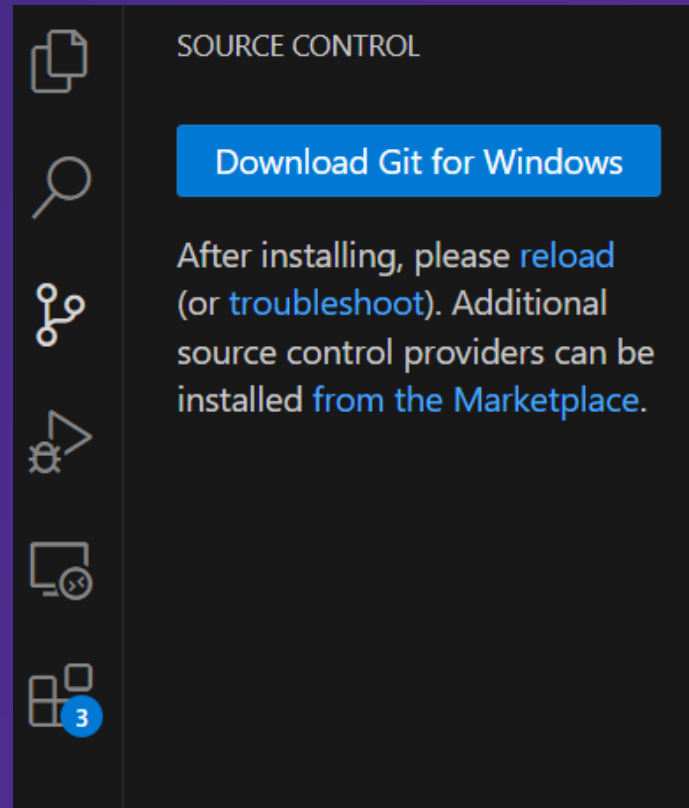
VS Code Interface Overview Cont.



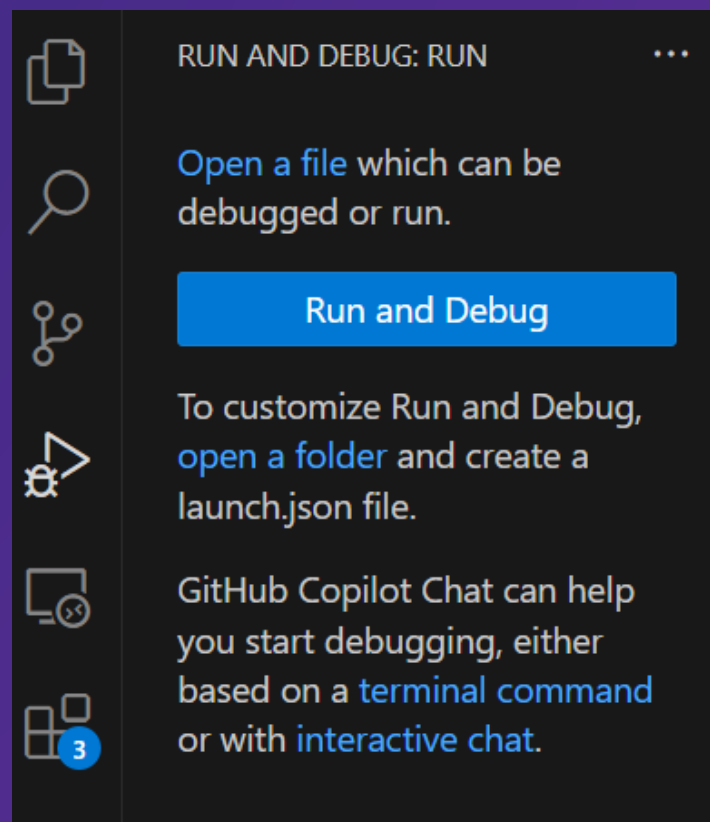
VS Code Interface Overview Cont.



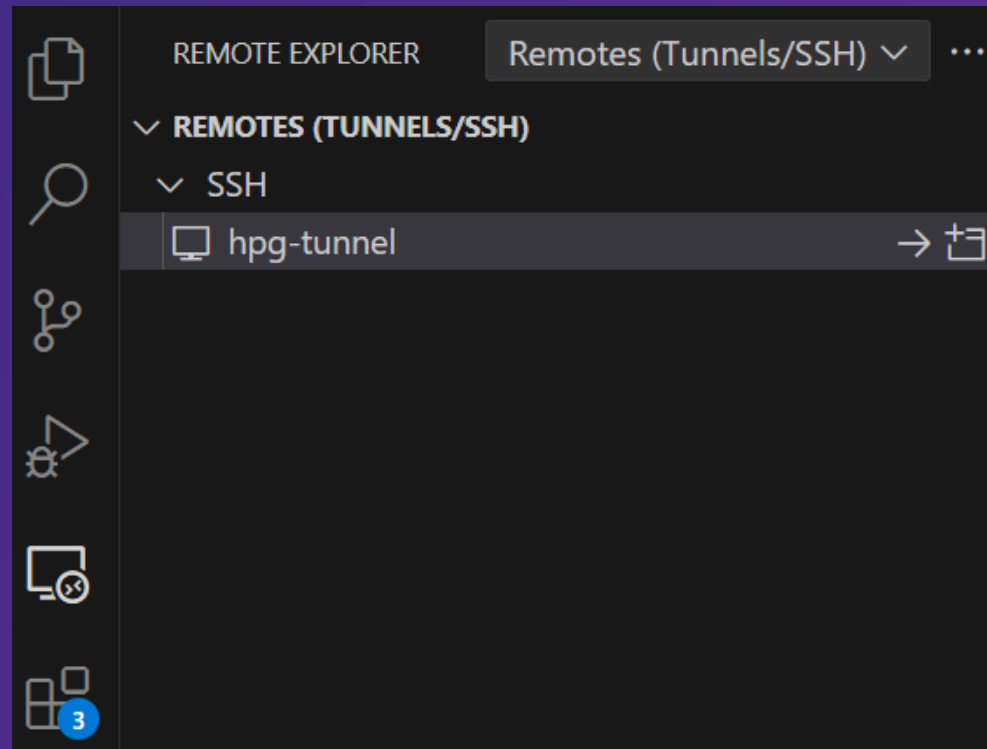
VS Code Interface Overview Cont.



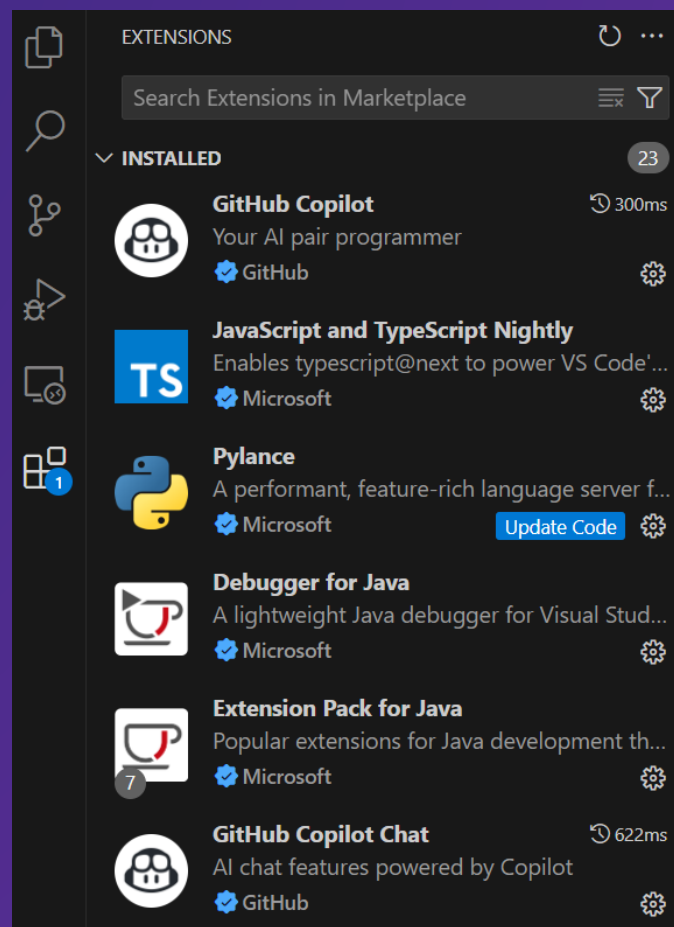
VS Code Interface Overview Cont.



VS Code Interface Overview Cont.



VS Code Interface Overview Cont.



Connect HPG to *VS* Code

Connect HPG to **VS** Code Cont.

```
PS C:\Users\yengalan> ssh n.yengalareddy@hpg.rc.ufl.edu
(n.yengalareddy@hpg.rc.ufl.edu) Password:
(n.yengalareddy@hpg.rc.ufl.edu) Duo two-factor login for 60386812@ufid.it.ufl.edu

Enter a passcode or select one of the following options:

1. Duo Push to XXX-XXX-8535
2. Phone call to XXX-XXX-8535

Passcode or option (1-2): 1
Success. Logging you in...
Success. Logging you in...
Last login: Wed Jul  9 17:44:47 2025 from 167.78.72.20

Welcome to UF Research Computing
-----

The user agrees to comply with Research Computing's policies.

https://www.rc.ufl.edu/documentation/policies/

Backup Policy
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Data on Research Computing storage systems is NOT backed up without investment
in backup services. Please visit the link below for more information.

https://www.rc.ufl.edu/documentation/policies/storage/

UFIT Policy Notice
-----

The user understands and acknowledges that the computer and the network are the
property of the University of Florida (UF). The user agrees to comply with the
UF Acceptable Use Policy and Guidelines. UF monitors computer and network
activities without user authorization. UF may provide information about computer
or network usage to UF officials, including law enforcement when warranted.
Therefore, the user should have limited expectations of privacy.

[n.yengalareddy@login7 ~]$ |
```



Connect HPG to **VS** Code Cont.

```
[n.yengalareddy@login8 ~]$ srundev --partition=hpg-dev --mem=4gb --ntasks=1 --cpus-per-task=4 --time=04:00:00
Starting an interactive session in the hpg-dev partition
Command: srun -p hpg-dev --time=01:00:00 --mem=6gb --partition=hpg-dev --mem=4gb --ntasks=1 --cpus-per-task=4 --time=04:00:00 -
-pty -u bash -i
srun: job 7000281 queued and waiting for resources
srun: job 7000281 has been allocated resources
bash-5.1$ ./code tunnel
bash: ./code: No such file or directory
bash-5.1$ ls
'~.'  blue_folder  jupyterhub_slurmspawner_66396982.log  singularityIMG
bin  jupyterhub_slurmspawner_66386415.log  jupyterhub_slurmspawner_66468585.log  vscode_cli.tar.gz
bash-5.1$ cd bin
bash-5.1$ ./code tunnel
```



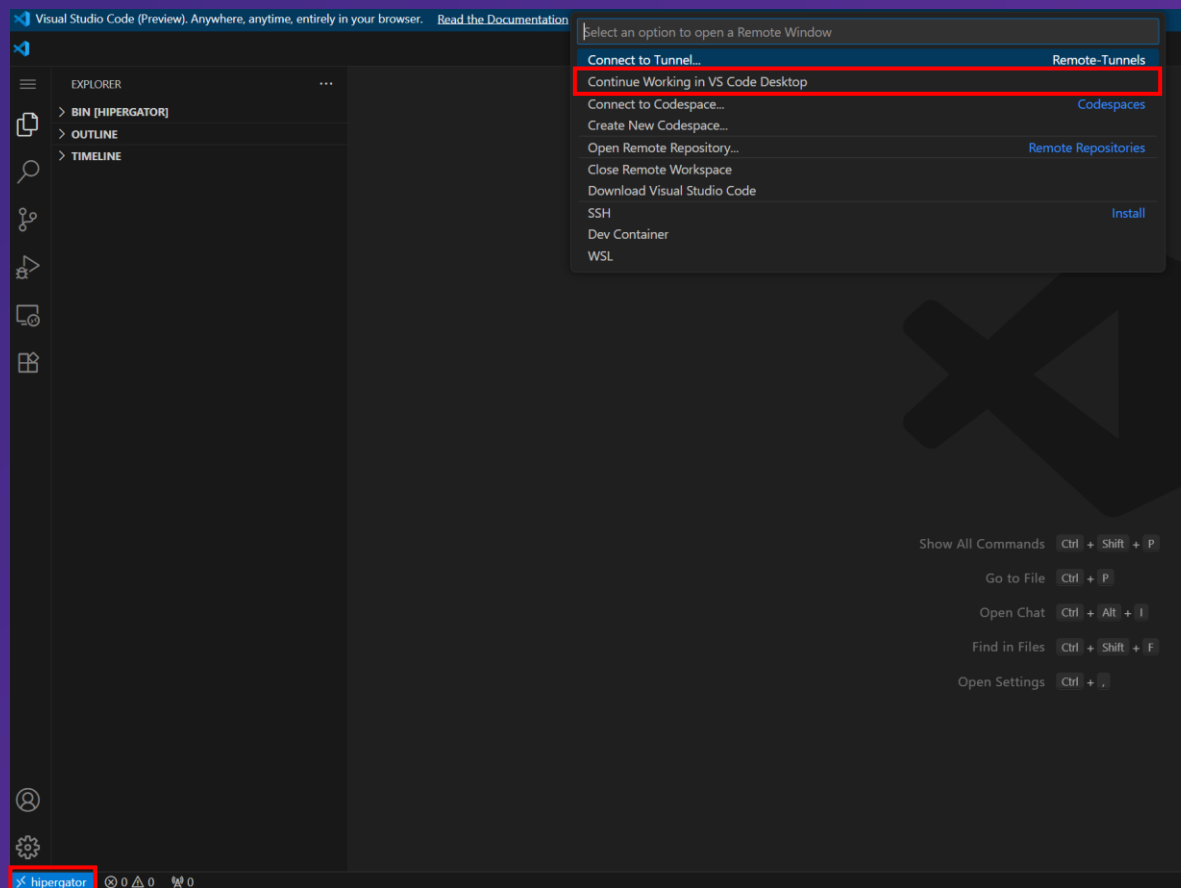
Connect HPG to **VS** Code Cont.

```
* Visual Studio Code Server
*
* By using the software, you agree to
* the Visual Studio Code Server License Terms (https://aka.ms/vscode-server-license) and
* the Microsoft Privacy Statement (https://privacy.microsoft.com/en-US/privacystatement).
*

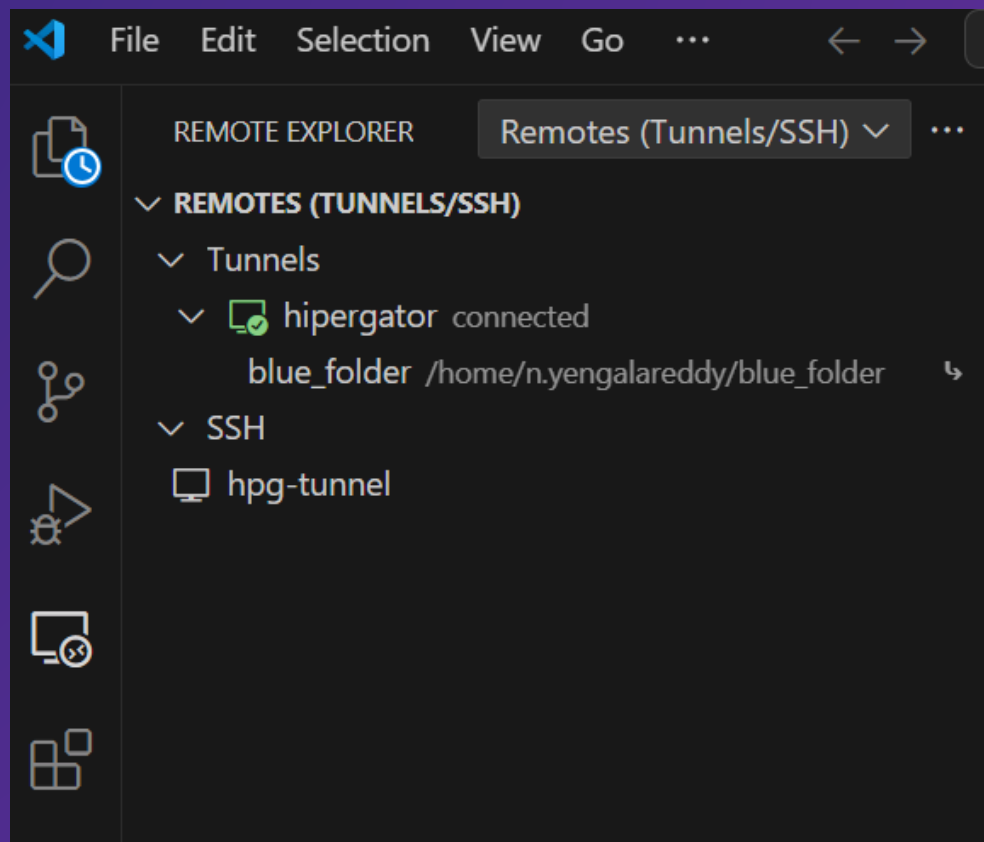
Open this link in your browser https://vscode.dev/tunnel/hipergator/home/n.yengalareddy/bin
```



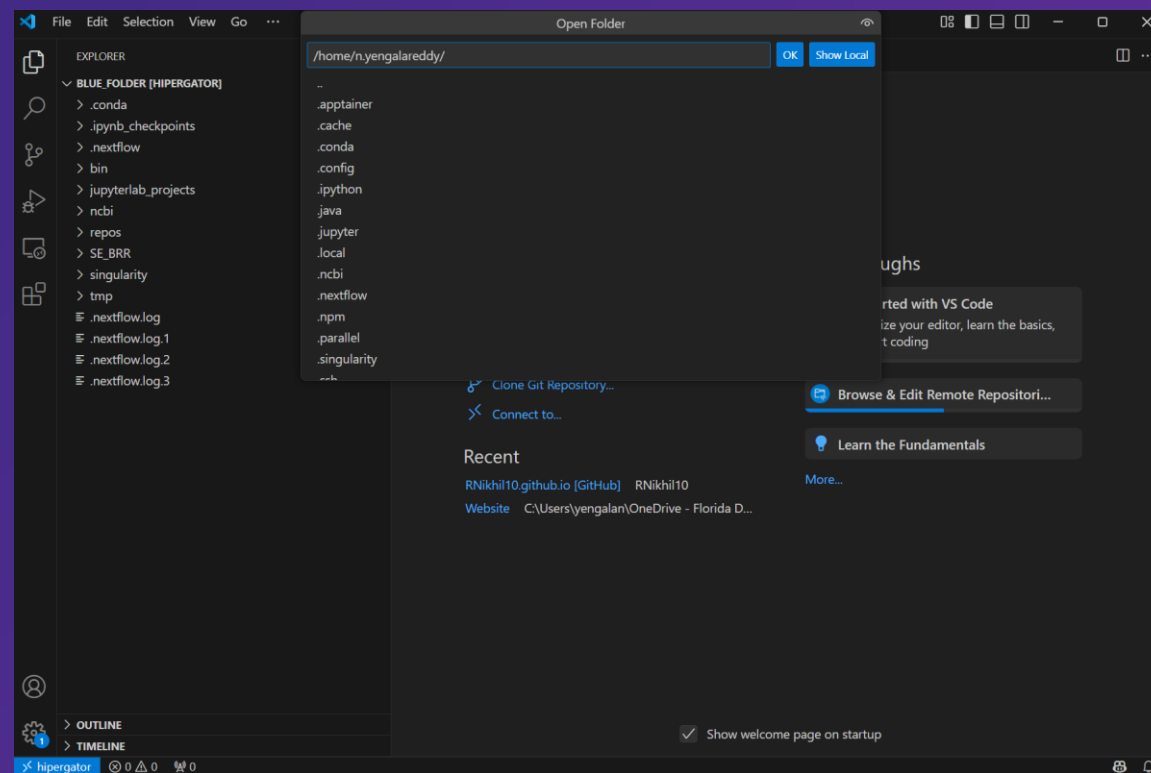
Connect HPG to **VS** Code Cont.



Connect HPG to **VS** Code Cont.



Connect HPG to **VS** Code Cont.



Connect HPG to **VS** Code Cont.

```
^C[2025-07-10 16:14:33] info Shutting down: Ctrl-C received  
[2025-07-10 16:14:33] info [rpc.2] Disposed of connection to running server.  
[2025-07-10 16:14:33] info [rpc.3] Disposed of connection to running server.  
bash-5.1$ exit  
exit  
[n.yengalareddy@login8 ~]$ |
```



Conclusion



Fundamentals of **VS**
Code



Installation and setup
of **VS** Code



Basic Interface
Fundamentals of **VS**
Code



Successfully
Connected HPG to **VS**
Code



References

- https://docs.rc.ufl.edu/interfaces/ssh_vscode/
- https://docs.rc.ufl.edu/domain/vscode_development/ (Preferred)
- https://help.rc.ufl.edu/doc/VS_Code_Remote_Development



Advanced Molecular Detection

Southeast Region Bioinformatics

Questions?

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