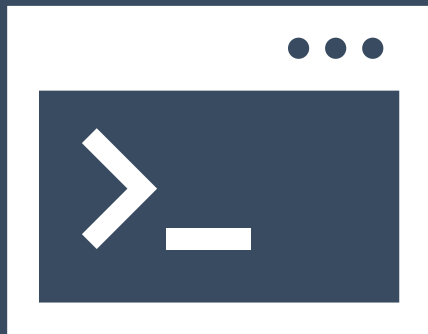


Peak Analysis

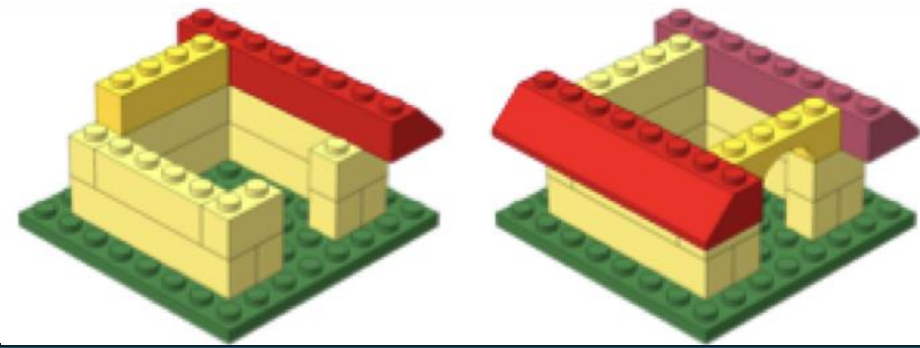
<https://tinyurl.com/Peak-analysis>



Harvard Chan Bioinformatics Core



Workshop Scope



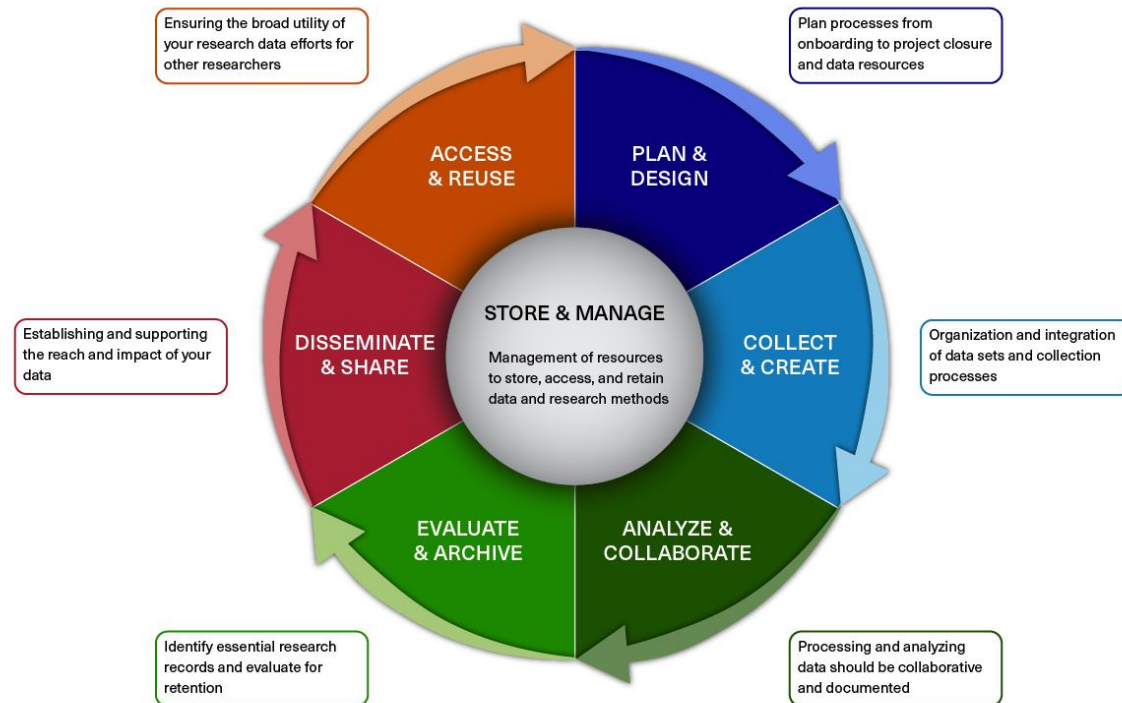
- ❖ Describe peak data and different file formats generated from peak calling algorithms
- ❖ Assess various metrics used to assess the quality of peak calls
- ❖ Compare peak calls across samples within a dataset
- ❖ Create visualizations to evaluate peak annotations
- ❖ Evaluate differentially enriched regions between two sample groups

Exit survey

<https://tinyurl.com/hbc-peak-analysis-exit-survey>

Research Data Management (RDM)

BIOMEDICAL RESEARCH DATA LIFECYCLE



Better RDM practice benefits you

- ❖ **HMS Data Management LMA**

- ❖ **Webpage:** <https://datamanagement.hms.harvard.edu>

- ❖ **Sign up** for quarterly email updates

- ❖ **Harvard-wide Research data Management**






- ❖ <https://researchdatamanagement.harvard.edu/>

Fall 2024 Data Lifecycle Training

Plan & Design

- September 24**  Managing Research Data Efficiently
- September 26**  Project and Lab Onboarding
- October 31**  Data Horror Stories: Avoid the Nightmare
- November 19**  Writing a Data Management and Sharing Plan

Collect & Analyze

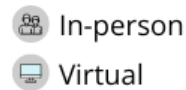
- September 19**  Intro to MATLAB
- October 10**  Research Computing: Intro to Python
- November 20**  Basic Shell
- November 21**  Research Computing: Intro to O2
- December 5**  RCBio: easy and quick HPC pipeline builder & runner

Store & Evaluate

- October 22**  Introduction to the General Records Schedule
- October 24**  Computing Strategies and Resources
- November 22**  Managing Paper Records: Off-Site Records Storage
- December 17**  Managing Electronic Records: Shared Drives and Emails

Share & Publish

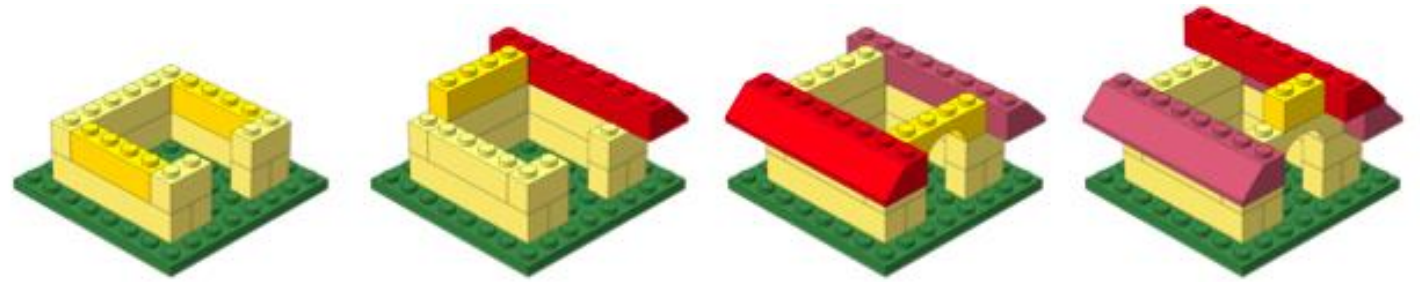
- September 18**  Interact with your data using RShiny
- November 14**  Principles of Finding and Citing Data
- December 3**  Research Management: Tools for Open Science
- December 12**  Data Sharing in Repositories



Learn More & Register
bit.ly/rdmwg-calendar



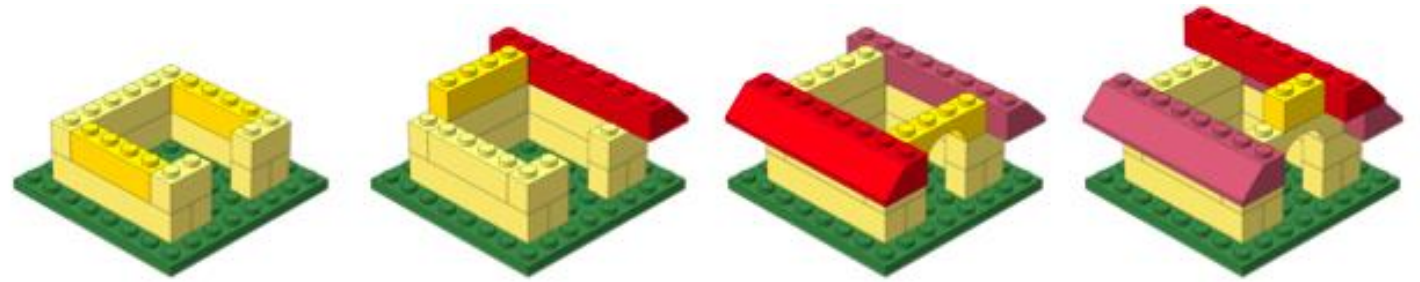
Keep building!



2024-2025 schedule:

Topic	Pre-requisites	Date/Time	Time	Registration
Tips and Tricks on O2	Shell	12/11/24*	1 - 4 pm	Register!
R Basics	None	2/19/25	1 - 4 pm	Registration coming
Rmarkdown	R Basics	3/19/25	1 - 4 pm	Registration coming
GitHub Part I	Shell	4/16/25	1 - 4 pm	Registration coming
GitHub Part II	GitHub Part I	5/21/25	1 - 4 pm	Registration coming

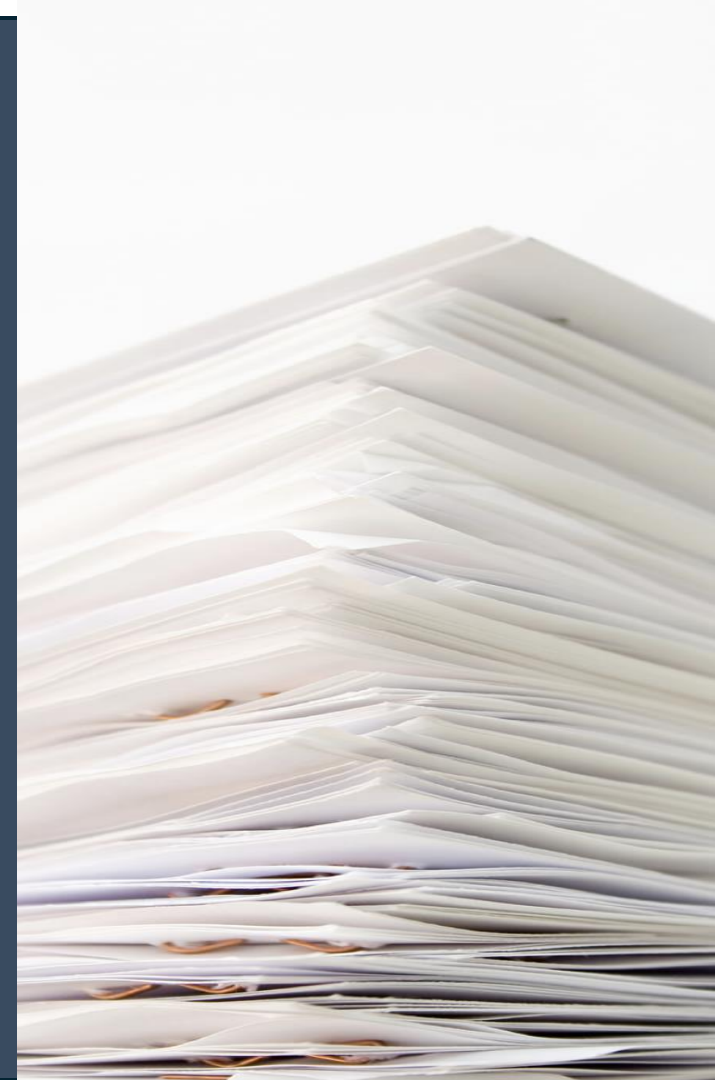
Keep building!



Shell for Bioinformatics	Basic	January 21, 24, 28	Three 2.5h session	None
Introduction to bulk RNA-seq data analysis Part I	Advanced	February 4, 7, 11	Three 2.5h session	Shell for Bioinformatics
Introduction to R	Basic	February 18, 21, 25 and 28	Four 2h sessions	None
Introduction to SingleCell RNA-seq	Advanced	March 4, 7, 11	Three 2.5h session	R
Introduction to Differential Gene Expression (DGE) Analysis	Advanced	March 18, 21, 25, 28	Four 2h sessions	R
Pseudobulk	Advanced	April 4, 8, 11	Three 2.5h sessions	R

Talk to us early!

Involvement in study design to optimize experiments



Join us for HBC Community Breakfast!

- ❖ An opportunity to get to know others in the community
- ❖ Free food and beverages
- ❖ Great conversations
- ❖ Thursday January 9th, 2025
 - ❖ 9:00 to 10:30am



<http://bioinformatics.sph.harvard.edu/breakfast/>

O2 Service Outage



O2

- ❖ January 3rd to January 10th 2025
- ❖ The O2 Cluster will be completely offline, including O2 Portal.
- ❖ All data on O2 will be inaccessible.
- ❖ Websites hosted on O2 will be completely offline, including all web content, not just job submissions.
- ❖ Other services reliant on O2 will be affected.

<https://it.hms.harvard.edu/news/upcoming-data-center-relocation>

More Information

- ❖ *HBC training materials: <https://hbctraining.github.io/main>*
- ❖ *HBC website: <http://bioinformatics.sph.harvard.edu>*

Contact Us

Sign up for our mailing list:

<https://tinyurl.com/hbc-training-mailing-list>

- ❖ *HBC training team:* hbctraining@hsph.harvard.edu
- ❖ *HBC consulting:* bioinformatics@hsph.harvard.edu