

## **2022 LBRN Summer Bioinformatics Training Modules**

(for undergraduate, graduate students, faculty and staff of LBRN Institutions)

The Louisiana Biomedical Research Network (LBRN) Summer Program is Supported by the Louisiana Board of Regents and NIH:NIGMS P20GM103424

Program	BIG Data meet Biology	Machine Learning  Learning	COVID-19  Multi-Omics for Infectious Diseases	Cancer  Transcriptonics for Chronic Diseases  And Stranscriptonics for Chronic Diseases	Independent Projects  Bioinformatics Research Fellowship  To a Bootemark a gray man age of February de Bootemark pages  To the Bootemark of a gray man age of February de Bootemark pages  The Bootemark of Bootemark of Bootemark pages  The B
	Omics Logic Bioinformatics	Biomedical Data Analysis in R & Python	Bioinformatics for Infectious Diseases	Transcriptomics for Chronic Diseases	Research Project
Duration (months)	3	1	3	3	3
Number of Students	30	10	10	10	4
Difficulty	Beginner	Intermediate	Intermediate	Advanced	All Levels
Description	Getting Started with Bioinformatics	Learn to explore, visualize, and analyze biomedical -omics data using R and Python.	Learn about bioinformatics for COVID monitoring and multi-omics data in infectious disease research.	Master bulk and Single Cell RNA-seq methods used in chronic disease research like cancer.	Work on an independent bioinformatics research project with big data and technical support.

