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NOV 2	2-3pm	BTRIS Intermediate for Clinical Researchers – Report Options, Optimizing Searches, Filtering Data	C
NOV 3	9:30am-4pm	Pathway Analysis	C
NOV 9-10	9am-5pm	Software Carpentry (two-day workshop)	C
NOV 14	9am-12pm	VantagePoint	C
	1-3pm	Introduction to Image Processing and Machine Learning with Images in MATLAB	C
NOV 15	10am-12pm	3D Printing Orientation	C
	1-3 pm	Computer Vision and Deep Learning with MATLAB: An Introduction	C
NOV 17	9:30am-4pm	GeneSpring 14.5	C
	12-1pm	EndNote Desktop	W
NOV 28	9am-12pm	Introduction to R: Data Wrangling	C W
	1-4pm	Intermediate R: Data Visualization	C W
NOV 29	10am-12:30pm	PubMed: Understanding the Basics	C
	12-3pm	VantagePoint	W
NOV 30	11am-12pm	From RePORTER to Web of Science and InCites: Bibliometric Analysis	W

REGISTRATION

Registration is required. Register online at nihlibrary.beta.libcal.com/calendar/nihltraining or by phone at (301) 496-1080

COURSE DESCRIPTIONS

Full course descriptions with links to course hand-outs, related resources and web tutorials are available online.

ACCOMMODATIONS

Sign language interpreters and other reasonable accommodations can be provided. If you require such accommodations contact the NIH Library Information Desk at (301) 496-1080 five business days in advance. TDD users/callers please call the above number through the Federal Relay Service at 1 (800) 877-8339.

LOCATION

Classes are held in the NIH Library Training Room located in the NIH Library, Clinical Center/Building 10. Webinars are held online.

C
classroom

W
webinar

HANDS ON • FREE • REGISTRATION REQUIRED • NIH/HHS STAFF ONLY • See class descriptions on reverse

Class Descriptions

3D Printing Orientation

Learn how to operate the Makerbot Replicator 2 and Stratasys uPrint 3D printers. Also covered, 3D model preparation and how to avoid common printing problems. Users are required to attend this orientation before 3D printing at the NIH Library.

BTRIS Intermediate for Clinical Researchers

BTRIS offers a number of report options and search strategies. This class will enable users to determine the best report options to find data and how to apply filters to queries and reports. You must have a BTRIS user account for access to identified data. To create an account go to: https://www.surveymonkey.com/s/Request_Data_Access.

Computer Vision and Deep Learning with MATLAB: An Introduction

Computer vision uses images and video to detect, classify, and track objects or events in order to understand a real-world scene. You will learn about capabilities for computer vision with the MATLAB product family.

EndNote Desktop

EndNote is bibliographic management software that helps you to manage references and create bibliographies. Learn how to build an EndNote library, manage your references, and work with MS Word to create bibliographies.

From RePORTER to Web of Science and InCites: Bibliometric Analysis

This course demonstrates how to move publication data from RePORTER to Web of Science and conduct bibliometric analyses. It also provides an introduction to InCites, a program that can provide fast bibliometric results.

GeneSpring 14.5

In this class, learn about GeneSpring 14.5, a data visualization and statistical analysis tool used by biologists for research and drug discovery. GeneSpring analyzes data from Microarrays, qPCR, NGS, and Mass Spectrometry and enables a user to examine probes across data types, array platforms, and organisms that map to the same biological entity.

Intermediate R: Data Visualization

This class will introduce participants to using ggplot2 and other R visualization tools in RStudio to create a variety of data visualizations. R's ggplot2 is a data visualization package that implements the Grammar of Graphics, a theoretical framework for building graphs and charts from their individual components, including data, geometric objects, coordinates, and aesthetic properties.

Introduction to Image Processing and Machine Learning with Images in MATLAB

This seminar is designed for anyone interested in using MATLAB to process, visualize, and quantify imagery. We will introduce a typical real-world challenge and discuss approaches to managing and exploring collections of widely heterogeneous images.

Introduction to R: Data Wrangling

In this course for non-programmers, participants will learn the basics to get started with R. The class covers key terminology and concepts and will use RStudio to learn about loading, aggregating, and processing data.

NIH Library

Introduction to the BTRIS Limited Data Set Application

The BTRIS Limited Data Set Application allows researchers to access data from across all active and terminated protocols conducted within the NIH intramural program. Access clinical research data from 1976 to present across 515,000 subjects. You must have a BTRIS user account for access to Limited Data Set data. To create an account go to: https://www.surveymonkey.com/s/Request_Data_Access.

Pathway Analysis

This training will provide a comprehensive understanding of bioinformatics tools for pathway analysis including: gene-gene interaction, visualization, and interpretation.

PubMed: Understanding the Basics

An introduction to PubMed's content, tools, and features will be provided. The steps to conduct a search and access journal full-text in PubMed will be shared along with suggestions on how to make your PubMed searching experience more fruitful.

Software Carpentry (two-day workshop)

This workshop will cover basic concepts and tools for scientific computing including: the basics of structured programming in R, version control using Git, and automating tasks using the Unix shell. Participants should bring their laptop with the downloaded Software Carpentry set-up files. A limited number of laptops will be available.

VantagePoint

VantagePoint is a powerful text-mining tool for discovering knowledge in search results from patent and literature databases. VantagePoint helps you rapidly understand and navigate through large search results, giving you a better perspective—a better vantage point—on your information.