



## Cancer Data Science: Selected Topics

### Counting cancers

- Cancers in one person's world
- Collecting cancer data
- Explore and visualize cancer data

### Mapping cancer rates

- Cancers across the globe
- Produce interactive, data-rich maps
- Cancer in our counties

### Body parts affected by cancer

- An overall view
- Variation in survival
- Subtypes and molecular origins

### Clinical trials: Finding new treatments

- Equipoise: when medicine doesn't know
- Randomization and avoidance of bias
- Methods of comparing treatments

EXPLORE CANCER  
PATHOLOGY

USE BIG DATA

SURVIVAL

MEASURE and  
MAP

# Cancer Data Science Series

LEARN DATA SCIENCE TO BEAT CANCER WITH GALAXY, JUPYTER, & R  
This customized Data Science Education Opportunity for CURE students is for those interested in:

- Learning about Jupyter notebooks, R, and Galaxy (an open-source data analysis platform)
- Developing data visualization and interpretation skills
- Finding and using publicly available large datasets
- Topics: map making, cancer risk measurement, genes involved in cancer, & treatment discovery

### Series Details

Dates - 7/12, 7/19, 7/26, and 8/2

Time - 5-6:30pm

Location - 10 Brookline Pl,  
Brookline, MA

*\*\*Participation in all sessions is required\*\**

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