2024 Quantitative Biology Bootcamp, CSHL School of Biological Sciences

Instructors:

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Teaching assistants:

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GitHub Repository: https://github.com/jbkinney/24e_qbbootcamp/

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Day 1: Tuesday, 3 September 2024, 10am - 6pm, Plimpton Conference Room, Beckman Bldg.
10:00am - 10:30am: Overview of Quantitative Biology (lecture, Justin)
10:30am - 12:00pm: The Unix command line (tutorial, Ivan)
12:00pm - 1:00pm: Lunch Break
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1:00pm - 1:30pm: Introduction to Python and Jupyter Notebooks (tutorial, Justin)

1:30pm - 3:30pm: Python: data types (tutorial, Justin)

3:30pm - 4:00pm: *Break*

4:00pm - 6:00pm: Python: flow control (tutorial, Ivan)

Day 2: Wednesday, 4 September 2024, 1pm - 6pm, Plimpton Conference Room, Beckman Bldg.

1:00pm - 1:30pm: Introduction to dataframes (lecture, Justin)

1:30am - 3:00pm: Pandas I, TF analysis (tutorial, Ivan)

3:00pm - 3:15pm: Break

3:15pm - 3:30pm: NextGen sequencing and high-performance computing (lecture, Justin)

3:30pm - 5:00pm: Read mapping using Elzar (tutorial, Justin)

Day 3: Thursday, 5 September 2024, 10am - 6pm, Plimpton Conference Room, Beckman Bldg.

10:00am - 11:30am: Pandas II, Replication origin analysis (tutorial, Justin)

11:30am - 12:00pm: Introduction to Data Visualization (lecture, Justin)

12:00pm - 1:00pm: *Lunch Break*

1:00pm - 2:30pm: Matplotlib (tutorial, Ivan)

2:30pm - 3:00pm: Break

3:00pm - 4:30pm: Advanced visualization (tutorial, Justin)