2023 Quantitative Biology Bootcamp, CSHL School of Biological Sciences

Instructors:

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GitHub Repository: https://github.com/jbkinney/23e qbbootcamp

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Day 1: Tuesday, 5 September 2023, 10am - 6pm, Hershey East Room, Hershey 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 (provided)
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)
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Day 2: Wednesday, 6 September 2023, 1pm - 6pm, Samet Conference Room, Koch Bldg.
1:00pm - 1:30pm: Overview of high-performance computing (lecture, Justin)
1:30am - 3:00pm: Read mapping using Elzar (tutorial, Justin)
3:00pm - 3:30pm: Break
3:30pm - 4:00pm: Introduction to Pandas (lecture, Justin)

3:30pm - 4:00pm: Introduction to Pandas (lecture, Justin 4:00pm - 5:30pm: Pandas I, TF analysis (tutorial, Ivan)

Day 3: Thursday, 7 September 2023, 10am - 6pm, Plimpton Conference Room, Beckman Bldg. 10:00am - 11:30am: Pandas II, Replication origin analysis (tutorial, Justin) 11:30pm - 12:00pm: Introduction to Data Visualization (lecture, Justin) 12:00pm - 1:00pm: Lunch (provided) 1:00pm - 2:30pm: Matplotlib (tutorial, Ivan) 2:30pm - 3:00pm: Break 3:00pm - 4:30pm: Advanced visualization (tutorial, Justin)