## 2023 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/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)
Day 2: Wednesday, 6 September 2023, 1pm - 6pm, Samet Conference Room, Koch Bldg.
           1:00pm - 1:30pm: Overview of high-performance computing (lecture, Justin)
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1:30am - 3:00pm: Read mapping using Elzar (tutorial, Justin)

3:00pm - 3:30pm: Break

3:30pm - 4:00pm: Introduction to Pandas (lecture, Justin)

4:00pm - 5:30pm: Pandas I, TF analysis (tutorial, Justin)

Day 3: Thursday, 7 September 2023, 10am - 6pm, Plimpton Conference Room, Beckman Bldg.

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

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)