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## WEEK 1

### SELF-PACED

#### Onboarding

#### Login & get access to program

Contact support team for issues: [sdo-support@stanford.edu](mailto:sdo-support@stanford.edu)

### FRIDAY, MAY 9TH @ 9AM - 10AM PST

#### Live Lecture

#### Introduction to Stanford Data Ocean

Dr. Amir Bahmani by the Director of Stanford Deep Data Research Center

### SELF-PACED

#### Milestone: Research Ethics

#### Research Ethics

Complete learning module on Stanford Data Ocean platform

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## WEEK 2

### WEDNESDAY, MAY 14TH @ 9AM -11AM PST

#### Live Lecture (1hr) & Office Hour (1hr)

#### Programming Basics

- 1-hour Programming with Python, R, Pandas lecture by Antony Ross, the Senior Data Scientist at Stanford Deep Data Research Center
- 1-hour office hour by teaching team on any questions about Programming with Python, R, Pandas

### SELF-PACED

#### Milestone: Programming Basics

#### Introduction to Python

Complete learning module on Stanford Data Ocean platform

#### Introduction to R

Complete learning module on Stanford Data Ocean platform

#### Introduction to Pandas

Complete learning module on Stanford Data Ocean platform

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## WEEK 3

**MONDAY, MAY 19TH @ 9AM -11AM PST**

### **Live Lecture (1hr) & Office Hour (1hr)**

#### **Statistics and Data Visualization**

- 1-hour Statistics Lecture by Antony Ross, the Senior Data Scientist at Stanford Deep Data Research Center
- 1-hour office hour by teaching team on any questions about programming, statistics, and data visualization

#### **SELF-PACED**



#### **Milestone: Data Analysis Tools**

#### **Introduction to Statistics I**

Complete learning module on Stanford Data Ocean platform

#### **Introduction to Data Visualization**

Complete learning module on Stanford Data Ocean platform

#### **SELF-PACED**



#### **Milestone: Cloud Computing**

#### **Introduction to Cloud Computing**

Complete learning module on Stanford Data Ocean platform

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## WEEK 4

**TUESDAY, MAY 27TH @ 9AM -11AM PST**

### Live Lecture

#### **Omics Data Introduction**

- 1-hour omics data lecture by Dr. Amir Bahmani, the Director of Stanford Deep Data Research Center
- 1-hour omics data lecture by Antony Ross, the Senior Data Scientist at Stanford Deep Data Research Center

### **SELF-PACED**

#### **Milestone: Bioinformatics**

##### **Introduction to Genomics**

Complete learning module on Stanford Data Ocean platform

##### **Introduction to Epigenetics**

Complete learning module on Stanford Data Ocean platform

##### **Introduction to Statistics II**

Complete learning module on Stanford Data Ocean platform

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## WEEK 5

**MONDAY, JUNE 2ND @ 9AM -10AM PST**

### Live Office Hour

#### **Teaching Team**

Q&A on any bioinformatics topics

### **SELF-PACED**

#### **Milestone: Bioinformatics**

##### **Introduction to Transcriptomics**

Complete learning module on Stanford Data Ocean platform

##### **Introduction to Proteomics**

Complete learning module on Stanford Data Ocean platform

##### **Introduction to Microbiome**

Complete learning module on Stanford Data Ocean platform

##### **Introduction to Metabolomics**

Complete learning module on Stanford Data Ocean platform

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## WEEK 6

**MONDAY, JUNE 9TH @ 9AM -11AM PST**

### **Live Lecture**

#### **Antony Ross**

AI/ML

by Senior Data Scientist at Stanford Deep Data Research Center

### **SELF-PACED**

#### **Milestone: Bioinformatics**

##### **Introduction to Clinical Data**

Complete learning module on Stanford Data Ocean platform

##### **Introduction to AI/ML**

Complete learning module on Stanford Data Ocean platform

##### **Introduction to Imaging Data**

Complete learning module on Stanford Data Ocean platform

##### **Introduction to Wearable Data**

Complete learning module on Stanford Data Ocean platform

##### **Introduction to Exposome**

Complete learning module on Stanford Data Ocean platform

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## WEEK 7

**MONDAY, JUNE 16TH @ 9AM -10AM PST**

### **Live Lecture**

#### **Dr. Arash Alavi**

Digital Health Foundations: Wearables and mHealth

by Software Development Director at Stanford Deep Data Research Center

### **SELF-PACED**

#### **Take Exam**

##### **Continue studying & preparing for exam**

Complete learning module on Stanford Data Ocean platform

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## WEEK 8

**MONDAY, JUNE 23RD @ 9AM -10AM PST**

 **Live Office Hour**

**Teaching Team**

Q&A on any bioinformatics topics

**SELF-PACED**

 **Take Exam**

**Continue studying & preparing for exam**

Complete learning module on Stanford Data Ocean platform

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## WEEK 9

**MONDAY, JUNE 30TH @ 9AM -10AM PST**

 **Live Office Hour**

**Teaching Team**

Q&A on any bioinformatics topics

**SELF-PACED**

 **Take Exam**

**Continue studying & preparing for exam**

Complete learning module on Stanford Data Ocean platform

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## WEEK 10

**MONDAY, JULY 7TH @ 11:59 PST**

 **Take Exam**

**Must Complete Exam by This Date**

Complete the certification exam on Stanford Data Ocean