

Multi-omics Boot Camp

Analysis of Omics Data for Research Studies



Day 1: Wednesday Jan 18, 2023

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|---|--|---------------------------------------|
| 8:45 - 9:00 PT 11:45 - 12:00 ET | <i>Login to Zoom</i> | |
| 9:00 - 9:45 PT 12:00 - 12:45 ET | Welcome and Introduction | David Conti, PhD |
| 9:45 - 10:00 PT 12:45 - 1:00 ET | <i>Break / One-on-one questions</i> | |
| 10:00 - 11:00 PT 1:00 - 2:00 ET | Session 1. Introduction to Observational Studies and Omic Data (Lecture) | David Conti, PhD TA: Yinqi Zhao |
| 11:00 - 11:15 PT 2:00 - 2:15 ET | <i>Break / One-on-one questions</i> | |
| 11:15 - 12:00 PT 2:15 - 3:00 ET | Session 2. Polygenic Analyses and Summary Statistics (Lecture) | Nicholas Mancuso PhD TA: Zeyun Lu |
| 12:00 - 1:00 PT 3:00 - 4:00 ET | <i>Networking Meal Break</i> | |
| 1:00 - 1:45 PT 4:00 - 4:45 ET | Session 3. Polygenic Analyses and Summary Statistics (Lab) | Nicholas Mancuso, PhD TA: Zeyun Lu |
| 1:45 - 2:00 PT 4:45 - 5:00 ET | <i>Break / One-on-one questions</i> | |
| 2:00 - 3:00 PT 5:00 - 6:00 ET | Session 4. Advanced Polygenic analysis and Summary Statistics (Lecture/Lab) | Nicholas Mancuso, PhD TA: Zeyun Lu |
| 3:00 - 3:15 PT 6:00 - 6:15 ET | Questions and Day 1 Wrap Up | |

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Day 2: Thursday Jan 19, 2023

8:45 - 9:00 PT

11:45 - 12:00 ET

Login to Zoom

9:00 - 9:45 PT

12:00 - 12:45

Session 5. Interaction (Lecture)

William Gauderman, PhD

TA: Yingi Zhao

9:45 - 10:00 PT

12:45 - 1:00 ET

Break / One-on-one questions

10:00 - 10:45 PT

1:00 - 1:45 ET

Session 6. Interaction (Lab)

William Gauderman, PhD

TA: Yingi Zhao

10:45 - 11:00 PT

1:45 - 2:00 ET

Break / One-on-one questions

11:00 - 12:00 PT

2:00 - 3:00 ET

Session 7. Advanced Interactions (Lecture/Lab)

Juan Pablo Lewinger, PHD

TA: Yingi Zhao

12:00 - 1:00 PT

3:00 - 4:00 ET

Networking Meal Break

1:00 - 1:45 PT

4:00 - 4:45 ET

Session 8. Clustering (Lecture)

Kimberly Siegmund, PhD

TA: Yinqi Zhao

1:45 - 2:00 PT

4:45 - 5:00 ET

Break / One-on-one questions

2:00 - 3:00 PT

5:00 - 6:00 ET

Session 9. Clustering (Lab)

Kimberly Siegmund, PhD

TA: Yinqi Zhao

3:00 - 3:15 PT

6:00 - 6:15 ET

Questions and Day 2 Wrap Up

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Day 3: Friday Jan 20, 2023

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|---|---|--|
| 8:45 - 9:00 PT 11:30 - 12:00 ET | <i>Login to Zoom</i> | |
| 9:00 - 10:00 PT 12:00 - 1:00 ET | Session 10. Advanced Clustering (Lecture/Lab) | Kimberly Siegmund, PhD TA: Yinqi Zhao |
| 10:00 - 10:15 PT 1:00 - 1:15 ET | <i>Break / One-on-one questions</i> | |
| 10:15 - 11:00 PT 1:15 - 2:00 ET | Session 11. Mediation/Latent Variable (Lecture) | David Conti, PhD TA: Yinqi Zhao |
| 11:00 - 11:15 PT 2:00 - 2:15 ET | <i>Break / One-on-one questions</i> | |
| 11:15 - 12:00 PT 2:15 - 3:00 ET | Session 12. Mediation/Latent Variable (Lab) | David Conti, PhD TA: Yinqi Zhao |
| 12:00 - 1:00 PT 3:00 - 4:00 ET | <i>Networking Meal Break</i> | |
| 1:00 - 2:00 PT 4:00 - 5:00 ET | Session 13. Advanced Mediation/Latent Variable (Lecture/Lab) | David Conti, PhD TA: Yinqi Zhao |
| 2:00 - 2:15 PT 5:00 - 5:15 ET | <i>Break / One-on-one questions</i> | |
| 2:15 - 3:00 PT 5:15 - 6:00 ET | Session 14. Bringing it all Together: Multi-omic Analysis in Real Data | Jesse Goodrich, PhD |
| 3:00 - 3:15 PT 6:00 - 6:15 ET | Questions and wrap-up | All Instructors |