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Analysis of Omics Data for Research Studies

# Day 1: Wednesday June 7, 2023

| **8:45 – 9:00 PT**  *11:45 – 12:00 ET* | *Login to Zoom* | |
| --- | --- | --- |
| **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* | *Break / One-on-one questions* |  |
| **10:00 – 11:00 PT**  *1:00 – 2:00 ET* | **Session 1. Introduction to Observational Studies and Omic Data (Lecture)** | David Conti, PhD |
| **11:00 – 11:15 PT**  *2:00 – 2:15 ET* | *Break / One-on-one questions* |  |
| **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* | *Networking Meal Break* |  |
| **1:00 – 1:45 PT**  *4:00 – 4:45 ET* | **Session 3. Polygenic Analyses and Summary Statistics (Lab)**  **Interaction (Lab)** | Nicholas Mancuso, PhD  *TA: Zeyun Lu* |
| **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 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 June 8, 2023

| **8:45 – 9:00 PT**  *11:45 – 12:00 ET* | *Login to Zoom* | |
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| **9:00 – 9:45 PT**  *12:00 – 12:45 ET* | **Session 5. Interaction (Lecture)** | William Gauderman, PhD *TA: Daniel R* |
| **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: Daniel R* |
| **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: Daniel R* |
| **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: Qiran* |
| **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: Qiran* |
| **3:00 – 3:15 PT**  *6:00 – 6:15 ET* | **Questions and Day 2 Wrap Up** |  |

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# Day 3: Friday June 9, 2023

| **8:45 – 9:00 PT**  *11:30 – 12:00 ET* | *Login to Zoom* | |
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| **9:00 – 10:00 PT**  *12:00 – 1:00 ET* | **Session 10. Advanced Clustering (Lecture/Lab)** | Kimberly Siegmund, PhD  *TA: Qiran* |
| **10:00 – 10:15 PT**  *1:00 – 1:15 ET* | *Break / One-on-one questions* |  |
| **10:15 – 11:00 PT**  *1:15 – 2:00 ET* | **Session 11. Mediation/Latent Variable (Lecture)** | David Conti, PhD  *TA: Qiran* |
| **11:00 – 11:15 PT**  *2:00 – 2:15 ET* | *Break / One-on-one questions* |  |
| **11:15 – 12:00 PT**  *2:15 – 3:00 ET* | **Session 12. Mediation/Latent Variable (Lab)** | David Conti, PhD  *TA: Qiran* |
| **12:00 – 1:00 PT**  *3:00 – 4:00 ET* | *Networking Meal Break* |  |
| **1:00 – 2:00 PT**  *4:00 – 5:00 ET* | **Session 13. Advanced Mediation/Latent Variable (Lecture/Lab)** | David Conti, PhD  *TA: Qiran* |
| **2:00 – 2:15 PT**  *5:00 – 5:15 ET* | *Break / One-on-one questions* |  |
| **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 |