Multi-omics Boot Camp

Analysis of Omics Data for Research Studies

Day 1: Wednesday May 28, 2025

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: Tsz Fung*
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: Tsz Fung*
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: Tsz Fung*
3:00 - 3:15 PT *6:00 - 6:15 ET*	**Questions and Day 1 Wrap Up**	

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Day 2: Thursday May 29, 2025

8:45 - 9:00 PT *11:45 - 12:00 ET*	*Login to Zoom*	
9:00 - 9:45 PT *12:00 - 12:45 ET*	**Session 5. Interaction (Lecture)**	Jim Gauderman, PhD *TA: Daniel Rud*
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)**	Jim Gauderman, PhD *TA: Daniel Rud*
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 Rud*
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 Jia*
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 Jia*
3:00 - 3:15 PT *6:00 - 6:15 ET*	**Questions and Day 2 Wrap Up**	

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Day 3: Friday May 30, 2025

8:45 - 9:00 PT *11:30 - 12:00 ET*	*Login to Zoom*	
9:00 - 10:00 PT *12:00 - 1:00 ET*	**Session 10. Advanced Clustering (Lecture/Lab)**	Kimberly Siegmund, PhD *TA: Qiran Jia*
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 Jia*
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 Jia*
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 Jia*
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 (Lecture)**	Jesse Goodrich, PhD
3:00 - 3:15 PT *6:00 - 6:15 ET*	**Questions and Wrap Up**	All Instructors