**Preliminary schedule. SISG Module 11: Genetic Epidemiology.**

**Zoom link to all lectures:** https://washington.zoom.us/j/95833056286?pwd=ZEFwM0tLWnBnc2dpRyszMTIrNU5BUT09

**room ID:** 958 3305 6286

**password:** MOD11

\*Sessions will include either live break-out groups and/or hands-on exercises, as well as Poll Everywhere.

**Instructors:** Alie Fohner and Sara Lindstroem.

**Wednesday July 22 (all times in PT)**

**11.45-12.30** Introductions/Logistics. **Sara and Alie**

**12.30-12.45** Break

**12.45-13.30** Introduction to Genetic Epidemiology. **Sara.**

**13.30-13.45** Break

**13.45-14.30** Types of genetic variation. Genotyping/Sequencing technologies. **Alie**

**Thursday July 23 (all times in PT)**

**8.30-9.15** Hardy-Weinberg Equilibrium and Linkage Disequilibrium. **Alie.**

**9.15-9.30** Break

**9.30-10.15** Population structure and admixture mapping. **Alie.**

**10.15-10.30** Break

**10.30-11.15** Study designs and imputation. **Sara.**

**11.15-11.45** Lunch

**11.45-12.30** Analysis of association studies. **Alie**.

**12.30-12.45** Break

**12.45-13.30** Genome-wide association studies. **Sara.**

**13.30-13.45** Break

**13.45-14.30** Q&A

**Friday July 24 (all times in PT)**

**8.30-9.15** Bioethics. **Alie.**

**9.15-9.30** Break

**9.30-10.15** Rare variants. **Sara.**

**10.15-10.30** Break

**10.30-11.15** Gene-Environment interactions. **Sara.**

**11.15-11.45** Lunch

**11.45-12.30** Risk prediction and translational genetics. **Alie.**

**12.30-12.45** Break

**12.45-13.30** Mendelian Randomization. **Sara.**

**13.30-13.45** Break

**13.45-14.30** Q&A