Workshop

Sun Mar 3, 2019

4pm - 7pm  Reception
Where: Ballroom Lobby  St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

Mon Mar 4, 2019

All day  Advanced course
Mon Mar 4, 2019 - Fri Mar 8, 2019
Where: St Julien Hotel and Spa  900 Walnut St Boulder, CO 80302
Calendar: Workshop
Created by: Jeff Lessem

8am - 9am  Optional review: Linux/Unix operating system (Medland)
Where: Xanadu Ballroom  St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

9am - 9:10am  Introduction and welcome (Hewitt)
Where: Xanadu Ballroom  St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

9:10am - 10:15am  Overview: Historical context and current challenges (N. Martin and Boomsma)
Where: Xanadu Ballroom  St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

10:15am - 10:30am  Introducing the computer system (Lessem)
Where: Xanadu Ballroom  St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

10:30am - 11am  Coffee Break
Where: Ballroom Foyer  St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302,USA
Calendar: Workshop
Created by: lessem@colorado.edu

11am - 12:30pm  Biometrical models and introduction to genetic analysis (Sham and D. Evans)
Where: Xanadu Ballroom  St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

12:30pm - 1:30pm  Lunch & RCR Discussion
Where: Great Room  St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu
Workshop

1:30pm - 3pm
Introduction to GWAS, common variation and PLINK (Colodro and Grasby)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

3pm - 3:30pm  Tea
Where: Ballroom Foyer St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302,USA
Calendar: Workshop
Created by: lessem@colorado.edu

3:30pm - 5pm  Quality Control in PLINK (Grasby and Colodro)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

5:30pm - 7:30pm  Reception
Where: Ballroom Lobby St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302,USA
Calendar: Workshop
Created by: lessem@colorado.edu

Tue Mar 5, 2019

All day  Advanced course
Mon Mar 4, 2019 - Fri Mar 8, 2019
Where: St Julien Hotel and Spa 900 Walnut St Boulder, CO 80302
Calendar: Workshop
Created by: Jeff Lessem

8am - 9am  Optional review: PLINK and Polygenic Risk Scores (Medland)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

9am - 10:30am
Common variant association and population stratification (Abdellaoui and Okbay)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

10:30am - 11am  Coffee Break
Where: Ballroom Foyer St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302,USA
Calendar: Workshop
Created by: lessem@colorado.edu

11am - 12:30pm
Family-based association methods plus practical (Boomsma and van Dongen)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

12:30pm - 1:30pm  Lunch & RCR Discussion
Where: Great Room St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu
Workshop

1:30pm - 3pm Imputation and Analysis of Imputed Data with Practical (Medland and Colodro)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

3pm - 3:30pm Tea
Where: Ballroom Foyer St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

3:30pm - 5pm Methods for estimating heritability (Yengo, B. Neale, and Keller)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

5:30pm - 7:30pm Reception
Where: Ballroom Lobby St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

Wed Mar 6, 2019

All day Advanced course
Mon Mar 4, 2019 - Fri Mar 8, 2019
Where: St Julien Hotel and Spa 900 Walnut St Boulder, CO 80302
Calendar: Workshop
Created by: Jeff Lessem

8am - 9am Optional review - X-Chromosomes and Sex Differences (Medland)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: Jeff Lessem

9am - 10:30am Methods for estimating genetic correlation (B. Neale, Keller, and Yengo)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

10:30am - 11am Coffee Break
Where: Ballroom Foyer St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

11am - 12pm Genomic SEM (Nivard)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

12pm - 12:30pm Power and Type 1 error (Sham and B. Neale)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: Jeff Lessem
Workshop

12:30pm - 1:30pm Lunch & RCR Discussion
Where: Great Room St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

1:30pm - 3pm EasyQC, meta-analysis (Metal), and multivariate meta-analytic approaches (Bartels and Okbay)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

3pm - 3:30pm Tea
Where: Ballroom Foyer St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

3:30pm - 5pm Pathway analysis with practical (Posthuma and Watanabe)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

5:30pm - 7:30pm Genomics PLC Poster Session
Where: Ballroom Lobby St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

Thu Mar 7, 2019

All day Advanced course
Mon Mar 4, 2019 - Fri Mar 8, 2019
Where: St Julien Hotel and Spa 900 Walnut St Boulder, CO 80302
Calendar: Workshop
Created by: Jeff Lessem

8am - 9am Heavily recommended review: Intro to Python and Jupyter Notebooks (Poterba and Seed)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: Jeff Lessem

9am - 10:30am Sequencing study theory (H. Martin and B. Neale)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

10:30am - 11am Coffee Break
Where: Ballroom Foyer St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

11am - 12pm Rare variant association (Simpson and B. Neale)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu
**Workshop**

12pm - 12:30pm  **Introduction to Hail (Seed and Poterba)**

*Where:* Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA

*Calendar:* Workshop

*Created by:* Jeff Lessem

12:30pm - 1:30pm  **Lunch & RCR Discussion**

*Where:* Great Room St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA

*Calendar:* Workshop

*Created by:* lessem@colorado.edu

1:30pm - 3pm  **Hail: Genetic QC for common and rare variant data on the cloud (Seed and Poterba)**

*Where:* Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA

*Calendar:* Workshop

*Created by:* lessem@colorado.edu

3pm - 3:30pm  **Tea**

*Where:* Ballroom Foyer St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA

*Calendar:* Workshop

*Created by:* lessem@colorado.edu

3:30pm - 5pm  **Hail: Genetic analysis and annotation at scale (Seed and Poterba)**

*Where:* Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA

*Calendar:* Workshop

*Created by:* lessem@colorado.edu

**Fri Mar 8, 2019**

**All day  **Advanced course**

*Mon Mar 4, 2019 - Fri Mar 8, 2019*

*Where:* St Julien Hotel and Spa 900 Walnut St Boulder, CO 80302

*Calendar:* Workshop

*Created by:* Jeff Lessem

8am - 9am  **Optional review: Simulation or who needs to collect data when you can make it up yourself (L. Evans)**

*Where:* Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA

*Calendar:* Workshop

*Created by:* Jeff Lessem

9am - 10:30am  **FUMA, Functional mapping and annotation of GWAS (Watanabe and Posthuma)**

*Where:* Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA

*Calendar:* Workshop

*Created by:* lessem@colorado.edu

10:30am - 11am  **Coffee Break**

*Where:* Ballroom Foyer St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA

*Calendar:* Workshop

*Created by:* lessem@colorado.edu

11am - 12:30pm  **Mendelian randomization (D. Evans and B. Neale)**

*Where:* Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA

*Calendar:* Workshop

*Created by:* lessem@colorado.edu
Workshop

12:30pm - 1:30pm  Lunch & RCR Discussion
Where: Great Room St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

1:30pm - 3pm  Epigenetics (van Dongen and Nivard)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

3pm - 3:30pm  Tea
Where: Ballroom Foyer St Julien Hotel & Spa, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

3:30pm - 4:15pm  Phenotype-driven Confounds (M. Neale and Pritkin)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: Jeff Lessem

4:15pm - 5pm  What excites the faculty, 5 minute talks (Chaired by Maes)
Where: Xanadu Ballroom St Julien Hotel & Spa, 900 Walnut St, Boulder, CO80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu

6pm - 9pm  Farewell Party
Where: Jill's Restaurant, 900 Walnut St, Boulder, CO 80302, USA
Calendar: Workshop
Created by: lessem@colorado.edu