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# Event Agenda

2023 Computational Genomics Summer Institute (CGSI)

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## Wed, Jul 12, 2023

**12:45 PM - 1:00 PM**

### **Retreat Bus Departure**

Location: Entrance, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**4:00 PM - 6:00 PM**

### **Retreat Hotel Check In**

Location: The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

**6:30 PM - 8:30 PM**

### **Dinner**

Location: Santana & Mavericks 41072 Big Bear Blvd., Big Bear Lake, CA 92315

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## Thu, Jul 13, 2023

**7:30 AM - 8:30 AM**

### **Breakfast**

Location: Stillwell Patio, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

**9:00 AM - 9:30 AM**

### **Polygenic Means To Test And Refine Depression Disease Models**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Na Cai

**9:30 AM - 10:00 AM**

### **Genomics of Longitudinal Traits**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Jessica Dennis

**10:00 AM - 10:15 AM**

### **Break**

**10:15 AM - 10:45 AM**

### **The Functional Architectures of Human Diseases and Complex Traits: From Polygenicity to Variant Function**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Steven Gazal

**10:45 AM - 11:15 AM**

### **Single-cell Data Integration Using Optimal Transport**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Ritambhara Singh

**11:15 AM - 11:30 AM**

### **Break**

**11:30 AM - 12:00 PM**

### **Using Neural Architecture Search in Genomics Research**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Zijun (Frank) Zhang

**12:00 PM - 1:00 PM**

### **Lunch**

Location: Stillwell Patio, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

**2:00 PM - 5:00 PM**

### **Hike Castle Rock Trail OR Holiday Inn Pool Party**

Location: Castle Rock Trailhead

**6:30 PM - 8:30 PM**

### **Dinner**

Location: Azteca Mexican Grill 40199 Big Bear Blvd., Big Bear Lake, CA 92315 <http://www.aztecabigbear.com>

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## Fri, Jul 14, 2023

**7:30 AM - 8:30 AM**

### **Breakfast**

Location: Stillwell Patio, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

**9:00 AM - 9:30 AM**

### **Inferring Parsimonious Migration Histories for Metastatic Cancers**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Mohammed El-Kebir

**9:30 AM - 10:00 AM**

### **Knowledge Graph Representation Learning Enabling Biomedical Applications**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Wei Wang

**10:00 AM - 10:15 AM**

### **Break**

**10:15 AM - 10:45 AM**

### **Computationally Scalable Approaches for Characterizing Genetic Architectures in Diverse Ancestries**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Nicholas Mancuso

**10:45 AM - 11:15 AM**

### **Models and Methods for Reconstructing Species-level Evolutionary Trees and Relationships to Tumor Phylogenetics**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Erin Molloy

**11:15 AM - 11:30 AM**

### **Break**

**11:30 AM - 12:00 PM**

### **Selective Inference for Computational Genomics**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Kris Sankaran

**12:00 PM - 1:00 PM**

### **Lunch**

Location: Stillwell Patio, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

**2:00 PM - 5:00 PM**

### **Soccer, Corn Hole, and other games**

Location: Meadow Park, 41220 Park Ave, Big Bear Lake, CA 92315

**6:30 PM - 8:30 PM**

### **Dinner**

Location: Village Sports Bar, 40789 Village Dr., Big Bear Lake, CA 92315

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## Sat, Jul 15, 2023

**7:30 AM - 8:30 AM**

### **Breakfast**

Location: Stillwell Patio, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

**9:00 AM - 9:30 AM**

### **Manifold Learning for Visualizing Genomic Data**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Jaehee Kim

**9:30 AM - 10:00 AM**

### **Genome-wide Prediction of Disease Variants with a Deep Protein Language Model**

Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315

Speaker: Vasilis Ntranos

**10:00 AM - 10:15 AM**

### **Break**

<b>10:15 AM - 10:45 AM</b>	<b>Tumor Evolution: Methods for Comparing, Summarizing and Visualizing Clonal Trees</b> Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315 Speaker: Layla Oesper
<b>10:45 AM - 11:15 AM</b>	<b>Computational Simulations and Machine Learning in Population Genetics Using an Example in Adaptive Introgression Inference</b> Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315 Speaker: Xinjun Zhang
<b>11:15 AM - 11:30 AM</b>	<b>Break</b>
<b>11:30 AM - 12:00 PM</b>	<b>Uncertainty Estimation in Machine Learning via Conformal Inference</b> Location: Timbers Room, The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315 Speaker: Matteo Sesia
<b>12:00 PM - 1:00 PM</b>	<b>Lunch On Your Own</b>
<b>1:00 PM - 1:30 PM</b>	<b>Bus Departure</b> Location: The Lodge at Big Bear Lake, A Holiday Inn Resort, 40650 Village Dr, Big Bear Lake, CA 92315
<b>2:00 PM - 4:00 PM</b>	<b>Fraternity House Check In -- Long Program Housing</b> Location: Phi Kappa Psi, 613 Gayley Ave, Los Angeles, CA 90024

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## Sun, Jul 16, 2023

<b>4:00 PM - 6:00 PM</b>	<b>Dormitory Check In -- Short Program Housing</b> Location: UCLA De Neve Plaza, 351 Charles E Young Dr West, Los Angeles, CA 90095
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## Mon, Jul 17, 2023

<b>8:00 AM - 9:00 AM</b>	<b>Registration and Breakfast</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>9:00 AM - 9:15 AM</b>	<b>Introduction &amp; Welcome</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>9:15 AM - 10:00 AM</b>	<b>Modeling Spatial Omics and Cellular Niches with Graph Neural Networks</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: James Zou
<b>10:00 AM - 10:45 AM</b>	<b>Selecting Between-sample ChIP-Seq Normalization Methods From The Perspective of Their Assumptions</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Jo Hardin
<b>10:45 AM - 11:15 AM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:15 AM - 11:30 AM</b>	<b>Popgen/Statgen Workshop Daily Orientation</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:15 AM - 11:30 AM</b>	<b>Genomic Tech Workshop Daily Orientation</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:15 AM - 11:30 AM</b>	<b>Methods Workshop Daily Orientation</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

<b>11:30 AM - 12:00 PM</b>	<b>Popgen/Statgen Faculty Talk: Population Genetics in Large Genealogies</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Simon Gravel
<b>11:30 AM - 12:00 PM</b>	<b>Genomic Tech Faculty Talk: Hierarchical Models for Deep Mutational Scans: "big" but actually small data</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Harold Pimentel
<b>11:30 AM - 12:00 PM</b>	<b>Methods Faculty Talk: Multiple Testing: Methods for Low- and High-Dimensional Testing Problems in Biomed, and Some Optimality Results</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Saharon Rosset
<b>12:00 PM - 1:30 PM</b>	<b>Lunch On Your Own</b>
<b>1:30 PM - 2:00 PM</b>	<b>Popgen/Statgen Workshop Interactive Time</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>1:30 PM - 2:00 PM</b>	<b>Genomic Tech Workshop Interactive Time</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>1:30 PM - 2:00 PM</b>	<b>Methods Workshop Interactive Time</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>2:00 PM - 2:30 PM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>2:30 PM - 3:00 PM</b>	<b>Popgen/Statgen Faculty Talk: Detection of Hard and Soft Sweeps from Population Genomic Data</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Nandita Garud
<b>2:30 PM - 3:00 PM</b>	<b>Genomic Tech Faculty Talk: Statistical Methods for Mapping of Context-dependent Regulatory Variants Using scRNA-seq Data</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Brunilda Balliu
<b>2:30 PM - 3:00 PM</b>	<b>Methods Faculty Talk: Evolutionary Models for Cancer and Lineage Tracing</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Ben Raphael
<b>3:00 PM - 3:30 PM</b>	<b>Popgen/Statgen Faculty Talk : Population Genetics Methods for Forensic DNA Identification</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Jaehee Kim
<b>3:00 PM - 3:30 PM</b>	<b>Genomic Tech Faculty Talk: Single-cell Data Integration Using Optimal Transport</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Ritambhara Singh
<b>3:00 PM - 3:30 PM</b>	<b>Methods Faculty Talk: Controlling False Discoveries in Genomics Data Analysis: What is the Null Hypothesis?</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Jingyi (Jessica) Li
<b>3:30 PM - 4:00 PM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>4:00 PM - 4:45 PM</b>	<b>Living in the Future of Genomics</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Rayan Chikhi
<b>5:00 PM - 6:30 PM</b>	<b>Opening Reception</b> Location: Luskin Conference Center, Courtyard South

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**Tue, Jul 18, 2023**

**8:30 AM - 9:15 AM**

**Breakfast**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**9:15 AM - 10:00 AM**

**Statistical Reference-free Genomics Solves Myriad Problems in Bioinformatics**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Julia Salzman

**10:00 AM - 10:45 AM**

**Models and Methods for Spatial Transcriptomics**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Ben Raphael

**10:45 AM - 11:15 AM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 11:30 AM**

**Popgen/Statgen Workshop Daily Orientation**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 11:30 AM**

**Genomic Tech Workshop Daily Orientation**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 11:30 AM**

**Methods Workshop Daily Orientation**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:30 AM - 12:00 PM**

**Popgen/Statgen Faculty Talk: Inference from Single Cell Lineage Tracing Data Generated via Genome Editing**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Julia Palacios

**11:30 AM - 12:00 PM**

**Leveraging High-throughput Functional Characterization Data to Dissect and Annotate Human Regulatory Regions**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Jason Ernst

**11:30 AM - 12:00 PM**

**Methods Faculty Talk: mDBG and alignment: The tumultuous fate of sequence bioinformatics ideas**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Rayan Chikhi

**12:00 PM - 1:30 PM**

**Lunch On Your Own**

**1:30 PM - 2:00 PM**

**Popgen/Statgen Workshop Interactive Time**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**1:30 PM - 2:00 PM**

**Genomic Tech Workshop Interactive Time**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**1:30 PM - 2:00 PM**

**Methods Faculty Talk: Machine Learning via Graph Signal for Complex Biological Data**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Smita Krishnaswamy

**2:00 PM - 2:30 PM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**2:30 PM - 3:00 PM**

**Popgen/Statgen Workshop: Poster Session**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**2:30 PM - 3:00 PM**

**Genomic Tech Faculty Talk: Graph and Algebraic Signal Processing Basics for Computational Biology**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Smita Krishnaswamy

<b>2:30 PM - 3:00 PM</b>	<b>Methods Faculty Talk: Clinical Event Extraction</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Nanyun (Violet) Peng
<b>3:00 PM - 3:30 PM</b>	<b>Popgen/Statgen Faculty Talk: Epigenetic Sequencing of Cell-free DNA for Biomarkers of Degenerative Disease.</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Noah Zaitlen
<b>3:00 PM - 3:30 PM</b>	<b>Genomic Tech Faculty Talk: Genotyping Allele-specific Copy Number Variants Using Pangenomes</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Mark Chaisson
<b>3:00 PM - 3:30 PM</b>	<b>Methods Faculty Talk: Leveraging Medical Twitter to Build a Visual-language AI Model for Pathology</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: James Zou
<b>3:30 PM - 4:00 PM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>4:00 PM - 4:45 PM</b>	<b>Faculty Talk: Statistical and Computational Challenges in the Analysis of Biobank-scale Data</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Sriram Sankararaman
<b>6:00 PM - 8:00 PM</b>	<b>Santa Monica Beach Picnic &amp; Games</b> Location: Near Annenberg Beach House, 415 Pacific Coast Hwy, Santa Monica, CA 90402

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## Wed, Jul 19, 2023

<b>8:30 AM - 9:15 AM</b>	<b>Breakfast</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>9:15 AM - 10:00 AM</b>	<b>Intuition and Paradoxes in Probability and Statistics</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Saharon Rosset
<b>10:00 AM - 10:45 AM</b>	<b>SwabSeq: Sequencing-based Detection of Pathogens</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Eleazar Eskin
<b>10:45 AM - 11:15 AM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:15 AM - 12:00 PM</b>	<b>Why is this so hard? It should be easy...</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Casey Greene
<b>12:00 PM - 12:45 PM</b>	<b>Machine Learning Models for Single Cell and Regulatory Genomics</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Christina Leslie
<b>12:45 PM - 2:00 PM</b>	<b>Lunch On Your Own</b>
<b>2:00 PM - 6:00 PM</b>	<b>Self-Guided Hollywood Tour (In Small Groups)</b>
<b>6:00 PM - 7:30 PM</b>	<b>Hollywood Bowl Picnic</b> Location: Picnic Area 14, Hollywood Bowl, 2101 N Highland Ave, Los Angeles, CA 90068
<b>8:00 PM - 10:00 PM</b>	<b>Hollywood Bowl Concert: Diana Krall</b> Location: Hollywood Bowl, 2301 N Highland Ave, Los Angeles, CA 90068

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**Thu, Jul 20, 2023**

**8:30 AM - 9:15 AM**

**Breakfast**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**9:15 AM - 10:00 AM**

**Large Language Models for Computational Biology: A Primer**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Jian Ma

**10:00 AM - 10:45 AM**

**From Mutagenic Processes to Mutational Signatures and Back**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Teresa Przytycka

**10:45 AM - 11:15 AM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 11:30 AM**

**Popgen/Statgen Workshop Daily Orientation**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 11:30 AM**

**Genomic Tech Workshop Daily Orientation**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 11:30 AM**

**Methods Workshop Daily Orientation**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:30 AM - 12:00 PM**

**Popgen/Statgen Faculty Talk : Generating Realistic Chromosome-Scale Simulations for Population Genomics Studies**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Ilan Gronau

**11:30 AM - 12:00 PM**

**Genomic Tech Faculty Talk : Computational Insights into Cancer Immunology**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Aly Azeem Khan

**11:30 AM - 12:00 PM**

**Methods Faculty Talk : Acceleration of Read Mapping Through Hardware/Algorithm Co-Design**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Can Alkan

**12:00 PM - 1:30 PM**

**Lunch On Your Own**

**1:30 PM - 2:00 PM**

**Popgen/Statgen Workshop Interactive Time**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**1:30 PM - 2:00 PM**

**Genomic Tech Workshop Poster Session**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**1:30 PM - 2:00 PM**

**Methods Workshop Poster Session**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**2:00 PM - 2:30 PM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**2:30 PM - 3:00 PM**

**Popgen/Statgen Workshop Interactive Time**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**2:30 PM - 3:00 PM**

**Genomic Tech Workshop Interactive Time**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**2:30 PM - 3:00 PM**

**Methods Workshop Interactive Time**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

<b>3:00 PM - 3:30 PM</b>	<b>Popgen/Statgen Faculty Talk: Optimizing Data Structures and Algorithms for Algebraic Computations on Large-Scale Population Genetic Data</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: April Wei
<b>3:00 PM - 3:30 PM</b>	<b>Genomic Tech Faculty Talk : BART: A Transcriptional Regulator Prediction Method for Functional Genomics</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Chongzhi Zang
<b>3:00 PM - 3:30 PM</b>	<b>Methods Faculty Talk : Outbreaks, Metastases and Homomorphisms: Inference of Transmissions and Migrations Under Structural Constraints</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Pavel Skums
<b>3:30 PM - 4:00 PM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>4:00 PM - 4:45 PM</b>	<b>Inferring Genome-wide Phylogenetic Trees with Hundreds of Thousands of Genomes</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Siavash Mirarab
<b>6:00 PM - 9:00 PM</b>	<b>Hammer Museum Concert</b> Location: UCLA Hammer Museum, 10899 Wilshire Blvd, Los Angeles, CA 90024

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## Fri, Jul 21, 2023

<b>8:30 AM - 9:15 AM</b>	<b>Breakfast</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>9:15 AM - 10:00 AM</b>	<b>How to “Squeeze” the Best Genome Assembly From Your HiFi Reads</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Stefano Lonardi
<b>10:00 AM - 10:45 AM</b>	<b>Advances in Large-scale Multiple Sequence Alignment</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Tandy Warnow
<b>10:45 AM - 11:15 AM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:15 AM - 12:00 PM</b>	<b>Faculty Talk: Independence Tests and Dependence Measures, for Unbiased and Biased Samples</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Or Zuk
<b>12:00 PM - 1:30 PM</b>	<b>Lunch On Your Own</b>
<b>1:30 PM - 2:15 PM</b>	<b>Popgen/Statgen Workshop Interactive Time</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>1:30 PM - 2:15 PM</b>	<b>Genomic Tech Workshop Interactive Time</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>1:30 PM - 2:15 PM</b>	<b>Methods Workshop Interactive Time</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>2:15 PM - 2:45 PM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>2:45 PM - 3:30 PM</b>	<b>Computational Methods for Modeling and Analyzing Epigenomic Data</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Jason Ernst



**3:30 PM - 4:00 PM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**4:00 PM - 4:45 PM**

**Design, Construction, and Usage of the Draft Pangenome**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Mark Chaisson

**5:00 PM - 6:30 PM**

**Closing Reception**

Location: First Floor Patio, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

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**Sat, Jul 22, 2023**

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**Sun, Jul 23, 2023**

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**Mon, Jul 24, 2023**

**8:30 AM - 9:15 AM**

**Breakfast**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**9:15 AM - 10:00 AM**

**Statistical Methods for Cancer Risk Prediction Models**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Wenyi Wang

**10:00 AM - 10:45 AM**

**MM Principle of Optimization**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Kenneth Lange

**10:45 AM - 11:15 AM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 12:00 PM**

**Participant Presentations**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Various Speakers

**12:00 PM - 1:00 PM**

**Lunch On Your Own**

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**Tue, Jul 25, 2023**

**8:30 AM - 9:15 AM**

**Breakfast**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**9:15 AM - 10:00 AM**

**Harnessing Genome Dynamics for Phylogenetic Reconstruction**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Sagi Snir

**10:00 AM - 10:45 AM**

**Eliciting Effective Machine Learning Algorithms via Majorization-Minimization**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Jason Xu

**10:45 AM - 11:15 AM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 12:00 PM**

**Participant Presentations**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Various Speakers

**12:00 PM - 1:00 PM**

**Lunch On Your Own**

6:00 PM - 8:00 PM

**Dinner**

Location: The Curious Palate, 395 Santa Monica Place (Third Floor), Santa Monica, CA 90401

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**Wed, Jul 26, 2023**

8:00 PM - 8:00 PM

**Day Off -- No Events Planned**

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**Thu, Jul 27, 2023**

8:30 AM - 9:15 AM

**Breakfast**

Location: Second Floor Patio, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

9:15 AM - 10:00 AM

**Characterization of Genomic Structural Variation Using Various Sequencing Technologies**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Can Alkan

10:00 AM - 10:45 AM

**Computational Biomedicine: Epigenetics Liquid Biopsy and Alternative Polyadenylation Therapy**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Wei Li

10:45 AM - 11:15 AM

**Coffee Break**

Location: Second Floor Patio, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

11:15 AM - 12:00 PM

**Participant Presentations**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Various Speakers

12:00 PM - 1:00 PM

**Lunch On Your Own**

6:00 PM - 8:00 PM

**Dinner**

Location: 2720 Main Street Santa Monica, CA 90405

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**Fri, Jul 28, 2023**

8:30 AM - 9:15 AM

**Breakfast**

Location: Second Floor Patio, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

9:15 AM - 10:00 AM

**Computational Analysis of Liver Whole-slide Images Empowers Genomic Analyses of Histological Traits**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Francesco Paolo Casale

10:00 AM - 10:45 AM

**Recent Advances in Normalizing Flows**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Christoph Lippert

10:45 AM - 11:15 AM

**Coffee Break**

Location: Second Floor Patio, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

11:15 AM - 12:00 PM

**Participant Presentations**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Various Speakers

12:00 PM - 1:00 PM

**Lunch On Your Own**

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**Sat, Jul 29, 2023**

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**Sun, Jul 30, 2023**

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**Mon, Jul 31, 2023**

**8:00 AM - 9:00 AM**

**Registration and Breakfast**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**9:00 AM - 9:15 AM**

**Introduction -- CGSI Organizing Committee**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**9:15 AM - 10:00 AM**

**From Population to Person: How to Help a Single, Actual Person with Data Science**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Lisa Bastarache

**10:00 AM - 10:45 AM**

**Revisiting Out of Distribution Generalization**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Rajesh Ranganath

**10:45 AM - 11:15 AM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 11:30 AM**

**Biobanks Workshop Daily Orientation**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 11:30 AM**

**ML in Health Workshop Daily Orientation**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:30 AM - 12:00 PM**

**Biobanks Faculty Talk : Confounding sneaks into biobanks in myriad ways...**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Nancy Cox

**11:30 AM - 12:00 PM**

**ML in Health Faculty Talk: Training Highly Generalizable Biomedical Image Segmentation Models with Very Few Annotations**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Pengtao Xie

**12:00 PM - 1:30 PM**

**Lunch On Your Own**

**1:30 PM - 2:00 PM**

**Biobanks Workshop Interactive Time**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**1:30 PM - 2:00 PM**

**ML in Health Workshop Interactive Time**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**2:00 PM - 2:30 PM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**2:30 PM - 3:00 PM**

**Biobanks Faculty Talk : Statistical and Computational Challenges in the Analysis of Biobank-scale Data**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Sriram Sankararaman

**2:30 PM - 3:00 PM**

**ML in Health Faculty Talk : Fairness and Equity in Machine Learning for Healthcare**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Irene Chen

**3:00 PM - 3:30 PM**

**Biobanks Faculty Talk : Computationally Scalable Approaches for Characterizing Genetic Architectures in Diverse Ancestries**

Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

Speaker: Nicholas Mancuso

<b>3:00 PM - 3:30 PM</b>	<b>ML in Health Faculty Talk : Strategies for Integrating Deep Learning with Current Biomedical Research</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Jeffrey Chiang
<b>3:30 PM - 4:00 PM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>4:00 PM - 4:45 PM</b>	<b>Methods for Disease Analysis Using Multiomic Data</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Ron Shamir
<b>5:00 PM - 6:30 PM</b>	<b>Opening Reception</b> Location: UCLA Botanical Gardens, 707 Tiverton Dr, Los Angeles, CA 90095

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## Tue, Aug 01, 2023

<b>8:30 AM - 9:15 AM</b>	<b>Breakfast</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>9:15 AM - 10:00 AM</b>	<b>Cause and Consequence of Within-Family Genetic Variation</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Peter Visscher
<b>10:00 AM - 10:45 AM</b>	<b>New Approaches to Phenotype Imputation and Causal Inference in Biobanks</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Sriram Sankararaman
<b>10:45 AM - 11:15 AM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:15 AM - 11:30 AM</b>	<b>Biobanks Workshop Daily Orientation</b> Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:15 AM - 11:30 AM</b>	<b>ML in Health Workshop Daily Orientation</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:30 AM - 12:00 PM</b>	<b>Biobanks Faculty Talk : Combining Biobanks and Cohort Studies: The Best of Both Worlds? The Case of Severe Mental Illness</b> Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Loes Olde Loohuis
<b>11:30 AM - 12:00 PM</b>	<b>ML in Health Faculty Talk: Deep Generative Models in Medicine</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Rajesh Ranganath
<b>12:00 PM - 1:30 PM</b>	<b>Lunch On Your Own</b>
<b>1:30 PM - 2:00 PM</b>	<b>Biobanks Workshop Interactive Time</b> Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>1:30 PM - 2:00 PM</b>	<b>ML in Health Workshop Interactive Time</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>2:00 PM - 2:30 PM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>2:30 PM - 3:00 PM</b>	<b>Biobanks Workshop Poster Session</b> Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

<b>2:30 PM - 3:00 PM</b>	<b>ML in Health Workshop: Observational Causal Inference for Improving and Auditing ML for Healthcare</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Shalmali Joshi
<b>3:00 PM - 3:30 PM</b>	<b>Biobanks Faculty Talk : Mixed Models in Genomic Analyses and Imaging Studies</b> Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Francesco Paolo Casale
<b>3:00 PM - 3:30 PM</b>	<b>ML in Health Faculty Talk: Reliable Machine Learning in Healthcare - Handling Dependent Censorship in Survival Analysis</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Rahul Krishnan
<b>3:30 PM - 4:00 PM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>4:00 PM - 4:45 PM</b>	<b>Bringing Machine Learning into Clinical Practice</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Julia Vogt
<b>6:00 PM - 8:00 PM</b>	<b>Santa Monica Beach Picnic &amp; Games</b> Location: Near Annenberg Beach House, 415 Pacific Coast Hwy, Santa Monica, CA 90402

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## Wed, Aug 02, 2023

<b>8:30 AM - 9:15 AM</b>	<b>Breakfast</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>9:15 AM - 10:00 AM</b>	<b>Detection of Assortative Mating Using Polygenic Scores</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Loic Yengo
<b>10:00 AM - 10:45 AM</b>	<b>Applications of Deep Learning in Digital Pathology and Embryology</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Iman Hajirasouliha
<b>10:45 AM - 11:15 AM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:15 AM - 12:00 PM</b>	<b>Performing GWAS of Images by Combining Deep Transfer Learning with Statistical Testing</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Christoph Lippert
<b>12:00 PM - 12:45 PM</b>	<b>Ways to Find Confounding in Biobanks</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Nancy Cox
<b>12:45 PM - 2:00 PM</b>	<b>Lunch On Your Own</b>
<b>3:00 PM - 7:00 PM</b>	<b>Temescal Gateway Park Hike/Picnic</b> Location: Temescal Gateway Park, 15601 Sunset Blvd, Pacific Palisades, CA 90272

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## Thu, Aug 03, 2023

<b>8:30 AM - 9:15 AM</b>	<b>Breakfast</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>9:15 AM - 10:00 AM</b>	<b>Less is More: Learning Signals to Learn Representations in Healthcare</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Sumit Chopra

<b>10:00 AM - 10:45 AM</b>	<b>Automated Quantitative Trait Locus Analysis</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Jason Moore
<b>10:45 AM - 11:15 AM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:15 AM - 11:30 AM</b>	<b>Biobanks Workshop Daily Orientation</b> Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:15 AM - 11:30 AM</b>	<b>ML in Health Workshop Daily Orientation</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>11:30 AM - 12:00 PM</b>	<b>Biobanks Faculty Talk: Fun with Phecodes!</b> Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Lisa Bastarache
<b>11:30 AM - 12:00 PM</b>	<b>ML in Health Faculty Talk : Understanding Spurious Feature Learning Through the Lens of Task Difficulty</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Kayhan Batmanghelich
<b>12:00 PM - 1:30 PM</b>	<b>Lunch On Your Own</b>
<b>1:30 PM - 2:00 PM</b>	<b>Biobanks Faculty Talk: Predicting the Epigenome from DNA Sequence, Are you there yet?</b> Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Haky (Hae Kyung) Im
<b>1:30 PM - 2:00 PM</b>	<b>ML in Health Workshop Poster Session</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>2:00 PM - 2:30 PM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>2:30 PM - 3:00 PM</b>	<b>Biobanks Faculty Talk: Still-Missing Heritability: A Tale of Two Traits</b> Location: Cohen Room, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Peter Visscher
<b>2:30 PM - 3:00 PM</b>	<b>ML in Health Workshop Interactive Time</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>3:00 PM - 3:30 PM</b>	<b>ML in Health Workshop Interactive Time</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>3:00 PM - 3:30 PM</b>	<b>ML in Health Workshop Free Time</b> Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>3:30 PM - 4:00 PM</b>	<b>Coffee Break</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
<b>4:00 PM - 4:45 PM</b>	<b>Familywise Error Rate Control for Statistical Testing in Brain Image Ontologies</b> Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095 Speaker: Daniel Tward
<b>6:30 PM - 10:00 PM</b>	<b>Skirball Museum exhibit and Sunset Concert. Performance by AvevA.</b> Location: Skirball Cultural Center, 2701 N Sepulveda Blvd, Los Angeles, CA 90049

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**Fri, Aug 04, 2023**

<b>8:30 AM - 9:15 AM</b>	<b>Breakfast</b> Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095
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**9:15 AM - 10:00 AM**

**Dissecting the Contribution of the Repeat-ome to Complex Traits**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Melissa Gymrek

**10:00 AM - 10:45 AM**

**Multi-modality Medical Image Analysis using Machine Learning**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Corey Arnold

**10:45 AM - 11:15 AM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**11:15 AM - 12:00 PM**

**Divide and Conquer: Carving Out Symbolic Models out of BlackBox for More Efficient Domain Adaptation**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Kayhan Batmanghelich

**12:00 PM - 1:30 PM**

**Lunch On Your Own**

**1:30 PM - 2:15 PM**

**Biobanks Workshop Interactive Time**

Location: Various Locations, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**1:30 PM - 2:15 PM**

**ML in Health Workshop Interactive Time**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**2:15 PM - 2:45 PM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**2:45 PM - 3:30 PM**

**Biobanks from a Pathologist's Viewpoint**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Valerie Arboleda

**3:30 PM - 4:00 PM**

**Coffee Break**

Location: First Floor, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095

**4:00 PM - 4:45 PM**

**CGSI Program Summary**

Location: Mong Auditorium, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095  
Speaker: Various Speakers

**5:00 PM - 6:00 PM**

**Closing Reception**

Location: First Floor Patio, Engineering VI, 404 Westwood Plaza, Los Angeles, CA 90095