

**UNIVERSITY OF ARIZONA / CIMAT FIRST WORKSHOP
ON INTERDISCIPLINARY STATISTICS**

**June 2-3, 2016
Cimat, Guanajuato**

Program

Thursday 2nd June 2016

9:30 - 10:45 am

Short course: *Statistical analysis of inverse problems I.*
Andrés Christian, CIMAT.

11:00 - 11:45 am

Consistency of modularity clustering on random geometric graphs.
Erik Davis, University of Arizona.

12:00 - 12:45 pm

Statistical modeling in Ecology at CIMAT.
Eloísa Díaz Francés, CIMAT.

13:00 - 13:45 pm

Deep human history; secrets from the neotome.
Joe Watkins, University of Arizona.

14:00 - 15:00 pm

Lunch

15:00 - 15:30 pm

Measures of causal influence between biosignals in the frequency domain.
Eduardo Álvarez, CIMAT.

15:30 - 16:00 pm

Towards statistical analysis of extinction based on the fossil record.
Pedro Orozco, CIMAT.

16:00 - 16:45 pm

Testing for differentially expressed pathways from within-subject matched pairs of RNA-seq data sets.
Grant Schissler, University of Arizona.

Friday 3rd June 2016

9:30 - 10:45 am

Short course: *Statistical analysis of inverse problems II*.
Andrés Christian, CIMAT.

11:00 - 11:45 am

Demography and natural selection: inferring population evolutionary history from genetic sequencing data.
Aaron Ragsdale, University of Arizona.

12:00 - 12:45 pm

Statistical analysis in neuroimaging.
Rolando J. Biscay, CIMAT.

13:00 - 13:45 pm

Distribution of collisions times of interacting particles in one-dimension with random initial positions and velocities.
Alex Young, University of Arizona.

14:00 - 15:00 pm

Lunch

15:00 - 15:45 pm

PLS generalized linear regression alternative methodology for applications in classification of microarray data.
Adolphus Wagala, CIMAT.

16:00 - 16:45 pm

Conclusions