

CRM Causal Inference Challenge

Dear Colleagues,

The Centre de Recherches Mathématiques (CRM) will be hosting a Statistical Causal Inference and Applications in Genetics workshop at the University of Montreal this summer. To further motivate interest and provide a realistic setting in which to benchmark a wide variety of methods, the CRM will be sponsoring a causal inference challenge in conjunction with the workshop.

Interested parties may compete as an individual or form a team and participants are invited to present a poster of their work at the workshop. The winning team will receive C\$300 and will have the opportunity to give an oral presentation of their results. Data for the challenge will be released on June 15 and the registration will close on July 18.

The data were collected by the International Mouse Phenotyping Consortium, and consists of 22 phenotypic measurements made on 614 mice. Most are 'wildtype' mice, but we have also included mice under 13 different single gene knock-out conditions. These experimental perturbations give an opportunity for an analysis of the causal mechanisms underlying the phenotypic measurements. Teams will be expected to predict some values that we have removed, as well as produce a causal interpretation of the data provided. The specifics of the work are left to the individual team but could, for example, include the selection of an underlying graph.

More information and registration for the challenge can be found on the conference webpage displayed below. Please contact Sam Wang (ysamwang@uw.edu) with any questions or clarifications about the challenge.

http://www.crm.umontreal.ca/2016/Genetics16/competition_e.php

Thanks,
Workshop Organizing Committee
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