Statistics Seminar

Department of Mathematical Sciences

DATE:	Thursday, March 12, 2020
TIME:	1:15pm – 2:15pm
LOCATION:	WH 100E
SPEAKER:	Yifei Zeng, Binghamton University
TITLE:	Genome-wide mapping of global-to-local genetic effects on human facial shape

Abstract

Genome-wide association scans of complex multipartite traits like the human face typically use preselected phenotypic mea- sures. In this paper, they report a data-driven approach to phenotyping facial shape at multiple levels of organization, allowing for an open-ended description of facial variation while preserving statistical power. Compared to previous study there are 15 replicated loci been detected which highlighted distinctive patterns of global-to-local genetic effects on facial shape and showed enrichment for active chromatin elements in human cranial neural crest cells, suggesting an early developmental origin of the facial variation captured.

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