STATISTICS COLLOQUIUM

MONDAY, SEPTEMBER 15, 2014
TALK: 4:15 PM — SCIENCE CENTER RM. 705
RECEPTION: 3:50 PM — SCIENCE CENTER, 7TH FLOOR

“Scaling Adaptive Education”

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ABSTRACT

In the thirty years since Bloom [1] attributed a 2-sigma improvement in educational outcomes to tutoring, differentiated learning has remained difficult to deliver at a reasonable cost to a mass audience. I will present Knewton's approach to this challenge, which focuses on scaling both user and content pools to achieve a better understanding of each. The talk is organized around three challenge problems relating to online modeling of student proficiencies, identification of multi-concept dependencies for assessments, and human-assisted inference of a latent matrix of content relationships.