



THE UNIVERSITY OF
CHICAGO

Departments of Computer Science, Mathematics, and Statistics
SCIENTIFIC AND STATISTICAL COMPUTING SEMINAR

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**Asymptotic Behaviour of the Permanent of a Doubly
Stochastic Matrix**

THURSDAY, October 4, 2012, at 3:00 PM
112 Stevanovich Center, 5727 S. University Avenue

ABSTRACT

I will give a brief background on the alpha-weighted permanent with an emphasis on how and where this function arises in combinatorics, probability and statistics. The talk will focus on strategies for approximating the permanent of a typical large matrix with positive entries. The Sinkhorn IPF projection reduces the problem to the permanent of a doubly stochastic matrix, and a subsequent expansion yields a computable determinantal approximation.

Organizers:

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