

**CURRICULUM VITAE
NICHOLAS CRAWFORD**

Contact Information

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Employment

VIGRE Assistant Professor Dept. of Statistics UC Berkeley September 2007- June 2010

Education

Ph.D.: Mathematics University of California, Los Angeles May 2007
B.A.: Mathematics Colby College June 2000

Honors

NSF VIGRE Fellowship UCLA Math Dept. 2000-2004
Honors Thesis: Wavelets and Functional Analysis Colby College 2000
Cum Laude, Colby College 2000

Research

Advisors: Marek Biskup Ph.D., Lincoln Chayes Ph.D.
Field: Probability, Statistical Mechanics
Some interests: Phase transitions and mean field theories of
classical and quantum spin systems.

Papers

- M. Biskup, L. Chayes and N. Crawford, *Mean-field driven first-order phase transitions in systems with long-range interactions*, J. Statist. Phys. 122 (2006), no. 6, 1139-1193.
- N. Crawford, *Thermodynamics and Universality for Mean Field Quantum Spin Glasses*, Comm. Math. Phys. 274, no. 3 / September, 2007.
- L. Chayes, N. Crawford, D. Ioffe, A. Levit *The Phase Diagram of the Mean Field Transverse Ising Model*, submitted.
- N. Crawford *The Interaction Between Multi-Overlaps in the High Temperature Phase of the Sherrington-Kirkpatrick Model of Spin Glasses*, submitted.

- S. Chatterjee, N. Crawford *Central Limit Theorems for the Energy Density in the High Temperature Phase of the Sherrington-Kirkpatrick Model* in preparation.