Chandan Tankala

CONTACT INFORMATION	Deady Hall 204 *E-mail:* chandant@uoregon.edu Department of Mathematics *WWW:chandantankala.github.io* University of Oregon Eugene, OR 97405 USA

RESEARCH INTERESTS

Probability theory with applications to problems from theoretical computer science and statistical physics. Current focus areas include analysis of Markov chain mixing times and non-equilibrium statistical mechanics.

EDUCATION

University of Oregon, Eugene, Oregon, USA

> Ph.D. Candidate, Mathematics (expected graduation date: June 2022)
> - Advisor: David A. Levin

Texas A&M University, College Station, TX, USA

> M.S., Geophysics, 2012

National Institute of Technology, Kurukshetra, India

> Bachelors of Technology, 2009

PROFESSIONAL EXPERIENCE

British Petroleum, Houston, TX USA

Research scientist, Seismic Imaging group   **2012 - 2015**
Worked on creating and implementing seismic imaging, signal processing algorithms which are broadly based on waveform inversion, wavelet transforms, stochastic optimization.

Intern, Geohazards team   **May - Aug, 2011**
Worked on 4D seismic data analysis to characterize potential hazards.

PAPERS SUBMITTED

- Fast mixing of a randomized shift-register Markov chain

PAPERS IN PREPARATION

- Upper bound for mixing time for asymmetric simple exclusion process on a $d-$ary tree
- Mixing time bounds for asymmetric simple exclusion process on a cycle

COURSES

Machine learning, Statistical mechanics, Combinatorics, Algorithms, Probability theory, Stochastic processes and dynamical systems, Real analysis, Abstract algebra, Abstract topology

COMPUTER SKILLS   Python,MATLAB,R