

## Chandan Tankala

---

CONTACT INFORMATION	McAurthur Court 111 Department of Mathematics University of Oregon Eugene, OR 97405 USA	E-mail: <a href="mailto:chandant@uoregon.edu">chandant@uoregon.edu</a> Website: <a href="https://chandantankala.github.io">https://chandantankala.github.io</a>
RESEARCH INTERESTS	Discrete probability theory and stochastic processes, analysis of mixing times of Markov chains	
EDUCATION	<b>University of Oregon</b> , Eugene, Oregon, USA Ph.D. candidate in Mathematics (Expected graduation: May 2024) <ul style="list-style-type: none"><li>• Advisor: David A. Levin</li><li>• Thesis title: <i>Mixing times of two non-reversible Markov chains</i></li></ul> <b>Texas A&amp;M University</b> , College Station, TX, USA M.S. in Geophysics, 2012 <b>National Institute of Technology</b> , India Bachelor's in Engineering, 2009	
EMPLOYMENT	<b>British Petroleum</b> , Houston, Texas, USA <ol style="list-style-type: none"><li>1. Geophysicist, 2012 - 2015 Inverse problems and imaging, signal processing, stochastic optimization</li><li>2. Geophysicist intern, May - August, 2011</li></ol>	
JOURNAL PUBLICATIONS AND PREPRINTS	1. <b>David A. Levin, Chandan Tankala.</b> Fast mixing of a randomized shift-register Markov chain, <i>Journal of Applied Probability</i> 60.1 (2023): 253-266, <a href="https://arxiv.org/abs/2109.05387">arXiv:2109.05387</a>	
PUBLICATIONS IN PREPARATION	1. <b>Balázs Gerencsér, David A. Levin, Chandan Tankala.</b> Fast mixing of the biased walk on $\mathbb{Z}_n$ with shortcuts. 2. <b>David A. Levin, Chandan Tankala.</b> Mixing time of a Hamiltonian Monte-Carlo Markov chain for the Ising model. 3. <b>Balázs Gerencsér, David A. Levin, Chandan Tankala.</b> Phase transition for a biased random walk on $\mathbb{Z}_n$ with added randomness.	
INVITED TALKS	1. University of California, Santa Barbara 2. Oregon State University 3. University of Washington 4. University of California, Davis	<b>October 2023</b> <b>March 2023</b> <b>November 2022</b> <b>October 2021</b>
TEACHING	<b>University of Oregon:</b> <ol style="list-style-type: none"><li>1. Calculus III</li><li>2. Calculus II</li><li>3. Calculus I</li><li>4. Business calculus</li><li>5. Introduction to statistics</li></ol>	<b>Fall 2023</b> <b>Spring 2021, Summer 2021</b> <b>Spring 2023, Summer 2022</b> <b>Winter 2022, Fall 2021</b> <b>Spring 2019, Summer 2019</b>

6. College algebra Fall 2018, Spring 2020, Fall 2020

CONFERENCES AND  
WORKSHOPS  
ATTENDED

- |   |  |
|---|--|
| 1. Pacific Northwest Probability Seminar, University of Washington, Seattle | <b>October 2022,<br/>November 2023</b> |
| 2. CRM-PIMS Summer School in Probability (Online)                           | <b>Summer 2021</b>                     |
| 3. Online Open Probability School, University of British Columbia (Online)  | <b>Summer 2020</b>                     |
| 4. Stochastic Processes and Applications, Northwestern University, Evanston | <b>July 2019</b>                       |

MENTORING  
EXPERIENCE

**Mentor** in University of Oregon's directed reading program **2020-2022**  
 Reading program pairing undergraduate students with graduate student mentors. Supervised four students at University of Oregon in:  
 (1) stochastic processes (2) theoretical statistics (3) combinatorics (4) graph theory

COMPUTER SKILLS Python, C++, MATLAB, R

REFERENCES

1. David A. Levin, Associate Professor, Mathematics, University of Oregon
2. Christopher Sinclair, Associate Professor, Mathematics, University of Oregon
3. Peter Ralph, Associate Professor, Mathematics, University of Oregon
4. Balázs Gerencsér, Associate Professor, Alfréd Rényi Institute of Mathematics