Curriculum Vitae

Chenyang Zhong

Contact Information

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Stanford University
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Research Interest

Markov chain Monte Carlo
  – *Mixing time analysis*
  – *Sampling and counting algorithms*
  – *Applications to statistical inference and science*

Probability
  – *Probabilistic combinatorics, including random permutations and random trees*
  – *The interplay between algebraic structures and probability*

Statistical machine learning
  – *Applications of statistical machine learning methods to public health research*

Education

Stanford University, Stanford, CA, USA
  Ph.D. Candidate in Statistics   *Sept. 2017 – Jun. 2022 (expected)*
  – Advisor: Persi Diaconis

Peking University, Haidian, Beijing, China
  Yuanpei College, B.S. in Statistics   *Sept. 2013 – Jun. 2017*

Publications and Preprints

Hahn polynomials and the Burnside process
  – with Persi Diaconis
  – *The Ramanujan Journal* (2021): 1-29
  – link: http://link.springer.com/article/10.1007/s11139-021-00482-z

Stochastic symplectic ice
  – To appear in *Letters in Mathematical Physics*
  – arXiv: 2102.00660
  – link: https://arxiv.org/abs/2102.00660

Mallows permutation models with L^1 and L^2 distances I:
  hit and run algorithms and mixing times
  – arXiv: 2112.13456
  – Link: https://arxiv.org/abs/2112.13456

Convergence rate of a collapsed Gibbs sampler for crossed random effects models
  – with Swarnadip Ghosh
  – arXiv: 2109.02849
  – link: https://arxiv.org/abs/2109.02849

Survival stacking: casting survival analysis as a classification problem
  – with Erin Craig and Robert Tibshirani
  – arXiv: 2107.13480
  – link: https://arxiv.org/abs/2107.13480

Large deviation bounds for the Airy point process
  – arXiv: 1910.00797
  – link: https://arxiv.org/abs/1910.00797

Talks

Sept. 2021
  Stanford University, Probability Seminar

Feb. 2021
  Stanford University, Solvable Lattice Models Seminar

Aug. 2020
  IMS-Bernoulli One World Symposium, online

Honors & Awards

2015, 2016
  China National Scholarship

2015
  Silver Medal in S.T.Yau College Student Mathematics Contests

2014

Leo KoGuan Scholarship

2013
    Peking University Outstanding Freshman Scholarship

Teaching Experience

Teaching Assistant, Stanford University

Winter 2021
    STATS 310B/MATH 230B, Theory of Probability II
Winter 2020
    STATS 300B, Theory of Statistics II
Autumn 2018
    STATS 305A, Applied Statistics I
Spring 2021
    STATS 318, Modern Markov Chains
Autumn 2020
    STATS 334/MATH 231, Mathematics and Statistics of Gambling
Spring 2020
    STATS 271, Applied Bayesian Statistics
Spring 2019
    STATS 315B, Modern Applied Statistics: Data Mining
Winter 2019
    STATS 216, Introduction to Statistical Learning
Autumn 2017
    STATS 240, Statistical Methods in Finance
Summer 2018, Autumn 2019, Summer 2020
    STATS 202, Data Mining and Analysis
Autumn 2021
    STATS 116, Theory of Probability
Summer 2021
    STATS 60, Introduction to Statistical Methods: Precalculus