

List of publications

Jeffrey E. Steif

- [1] A Characterization of Competition Graphs of Arbitrary Digraphs, (with Fred S. Roberts), *Discrete Applied Mathematics Journal*, **6**, (1983), 323–326.
- [2] The Frame Dimension and the Complete Overlap Dimension of a Graph, *Journal of Graph Theory*, **9**, (1985), 285–299.
- [3] Space–Time Bernoullicity of the Lower and Upper Stationary Processes for Attractive Spin Systems, *Annals of Probability*, **19**, No. 2, (1991), 609–635.
- [4] \bar{d} –Convergence to Equilibrium and Space–Time Bernoullicity for Spin Systems in the $M < \epsilon$ Case, *Ergodic Theory and Dynamical Systems*, **11**, Part 3, (1991), 547–575.
- [5] Some Rigorous Results for the Greenberg–Hastings Model, (with Richard Durrett), *Journal of Theoretical Probability*, **4**, No. 4, (1991), 669–690.
- [6] Fixation Results for Threshold Voter Systems, (with Richard Durrett), *Annals of Probability*, **21**, No. 1, (1993), 232–247.
- [7] An Application of the Very Weak Bernoulli Condition for Amenable Groups, (with Scot Adams), *Pacific Mathematical Journal*, **159**, No. 1, (1993), 1–17.
- [8] Nonuniqueness of Measures of Maximal Entropy for Subshifts of Finite Type, (with Robert Burton), *Ergodic Theory and Dynamical Systems*, **14**, Part 2, (1994), 213–235.
- [9] Percolation and the Hard-Core Lattice Gas Model, (with Jacob van den Berg), *Stochastic Processes and Their Applications*, **49**, No. 2, (1994), 179–197.
- [10] The Threshold Voter Automaton at a Critical Point, *Annals of Probability*, **22**, No. 3, (1994), 1121–1139.
- [11] New Results on Measures of Maximal Entropy, (with Robert Burton), *Israel Journal of Mathematics*, **89**, (1995), 275–300.
- [12] Two Applications of Percolation to Cellular Automata, *Journal of Statistical Physics*, **78**, (1995), 1325–1335.
- [13] Quite Weak Bernoulli with Exponential Rate and Percolation for Random Fields, (with Robert Burton), *Stochastic Processes and Their Applications*, **58**, No. 1, (1995), 35–55.
- [14] On Cover’s Consistent Estimator, (with Jack Koplowitz and Olle Nerman), *Scandinavian Journal of Statistics*, **22**, No. 3, (1995), 395–397.
- [15] The Variational Principle for Gibbs States Fails on Trees, (with Robert Burton and Charles Pfister), *Markov Processes and Related Fields*, **1**, No. 3, (1995), 387–406.
- [16] Some 2-d Symbolic Dynamical Systems: Entropy and Mixing, (with Robert Burton), *Ergodic Theory and Dynamical Systems (with applications to \mathbf{Z}^n -actions, number theory, statistical mechanics, and algebra)*, eds. Pollicott, M. and Schmidt, K., Cambridge University Press, (1996), 297–305.
- [17] On the continuity of the critical value for long range percolation in the exponential case, (with Ronald Meester), *Communications in Mathematical Physics*, **180**, (1996), 483–504.

- [18] Consistent Estimation of Joint Distributions for Sufficiently Mixing Random Fields, *Annals of Statistics*, **25**, (1997), 293–304.
- [19] On K -Automorphisms, Bernoulli Shifts and Markov Random Fields, (with Frank den Hollander), *Ergodic Theory and Dynamical Systems*, **17**, Part 2, (1997), 405–415.
- [20] Dynamical Percolation, (with Olle Häggström and Yuval Peres), *Annales Institut Henri Poincaré, Probabilités et Statistiques*, **33**, Part 4, (1997), 497–528.
- [21] Mixing properties of the generalized T, T^{-1} -process, (with Frank den Hollander), *Journal d'Analyse Mathématique*, **72**, (1997), 165–202.
- [22] Coupling Surfaces and Weak Bernoulli in One and Higher Dimensions, (with Robert Burton), *Advances in Mathematics*, **132**, Part 1, (1997), 1–23.
- [23] The Number of Infinite Clusters in Dynamical Percolation, (with Yuval Peres), *Probability Theory and Related Fields*, **111**, Part 1, (1998), 141–165.
- [24] Consistent estimation of percolation quantities, (with Ronald Meester), *Statistica Neerlandica*, **52**, (1998), 226–238.
- [25] Amenability and phase transition in the Ising model, (with Johan Jonasson), *Journal of Theoretical Probability*, **12**, (1999), 549–559.
- [26] On the equivalence of certain ergodic properties for Gibbs states, (with Frank den Hollander), *Ergodic Theory and Dynamical Systems*, **20**, (2000), 231–239.
- [27] On the existence and non-existence of finitary codings for a class of random fields, (with Jacob van den Berg), *Annals of Probability*, **27**, (1999), 1501–1522.
- [28] Robust Phase Transitions for Heisenberg and Other Models on General Trees, (with Robin Pemantle), *Annals of Probability*, **27**, (1999), 876–912.
- [29] Propp–Wilson algorithms and finitary codings for high noise Markov random fields, (with Olle Häggström), *Combinatorics, Probability & Computing*, **9**, (2000), 425–439.
- [30] The Ising Model on Diluted Graphs and Strong Amenability, (with Olle Häggström and Roberto Schonmann), *Annals of Probability*, **28**, (2000), 1111–1137.
- [31] Higher-dimensional subshifts of finite type, factor maps and measures of maximal entropy, (with Ronald Meester) *Pacific Mathematical Journal*, **200**, (2001), 497–510.
- [32] The T, T^{-1} -process, finitary codings and weak Bernoulli. *Israel Journal of Mathematics*, **125**, (2001), 29–43.
- [33] Which properties of a random sequence are dynamically sensitive?, (with Itai Benjamini, Olle Häggström and Yuval Peres), *Annals of Probability*, **31**, (2003), 1–34.
- [34] Finitary coding for the 1-D T, T^{-1} -process with drift, (with Mike Keane), *Annals of Probability*, **31**, (2003), 1979–1985.
- [35] Stationary Determinantal Processes: Phase Multiplicity, Bernoullicity, Entropy, and Domination (with Russ Lyons), *Duke Mathematical Journal*, **120**, (2003), 515–575.
- [36] Weak Bernoullicity of Random Walk in Random Scenery (with Frank den Hollander, Michael Keane, and Jacek Serafin), *Japanese Journal of Mathematics*, **29**, (2003), 389–406.

- [37] The voter model with anti-voter bonds (with Nina Gantert and Matthias Löwe), *Annales Institut Henri Poincare, Probabilites et Statistiques*, **41**, (2005), 767–780.
- [38] Dynamical Stability of Percolation for Some Interacting Particle Systems and ϵ -Stability, (with Erik Broman), *Annals of Probability*, **34**, (2006), 539–576.
- [39] Bad Configurations for Random Walk in Random Scenery and Related Subshifts, (with Frank den Hollander and Peter van der Wal), *Stochastic Processes and their Applications*, **115**, (2005), 1209–1232.
- [40] Stochastic Domination: The Contact Process, Ising models and FKG Measures, (with Thomas M. Liggett), *Annales Institut Henri Poincare, Probabilites et Statistiques*, **42**, (2006), 223–243.
- [41] Non-interactive correlation distillation, inhomogeneous Markov chains, and the reverse Bonami-Beckner inequality, (with Elchanan Mossel, Ryan O’Donnell, Oded Regev, and Benny Sudakov), *Israel Journal of Mathematics*, **154**, (2006), 299–336.
- [42] Refinements of stochastic domination (with Erik Broman and Olle Häggström), *Probability Theory and Related Fields*, **136**, (2006), 587–603.
- [43] Random walk in random scenery: A survey of some recent results, (with Frank den Hollander), *Dynamics and Stochastics: Festschrift in Honor of Michael Keane*, IMS Lecture Notes-Monograph Series, Vol. 48 (2006) 53–65.
- [44] Quantitative noise sensitivity and exceptional times for percolation, (with Oded Schramm), *Annals of Mathematics*, **171**, (2010), 619–672.
- [45] Statistical mechanical systems on complete graphs, infinite exchangeability, finite extensions and a discrete finite moment problem (with Tom Liggett and Bálint Tóth), *Annals of Probability*, **35**, (2007), 867–914.
- [46] Some results for poisoning in a catalytic model (with Aidan Sudbury), *Elect. Comm. in Probab.* **11**, (2006), 168–177.
- [47] Dynamical models for circle covering: Brownian motion and Poisson updating (with Johan Jonasson), *Annals of Probability*, **36**, (2008), 739–764.
- [48] Dynamical sensitivity of the infinite cluster in critical percolation, (with Yuval Peres and Oded Schramm), *Annales Institut Henri Poincare, Probabilites et Statistiques*, **45**, Part 2, (2009), 491–514.
- [49] The critical contact process in a randomly evolving environment dies out, (with Marcus Warfheimer), *ALEA. Latin American Journal of Probability and Mathematical Statistics*, **4**, (2008), 337–357.
- [50] On the Cluster Size Distribution for Percolation on Some General Graphs, (with Antar Bandyopadhyay and Adam Timar), *Revista Matematica Iberoamericana*, **26**, (2010), 529–550.
- [51] A survey on dynamical percolation, *Fractal geometry and stochastics, IV*, Birkhauser, (2009), 145–174.
- [52] Exclusion Sensitivity of Boolean Functions, (with Erik Broman and Christophe Garban), *Probability Theory and Related Fields*, **155**, (2013), 621–663.

- [53] A mini course on percolation theory, *Jyväskylä Lectures in Mathematics*, **3**, (2011).
- [54] Noise sensitivity and percolation. (with Christophe Garban), Probability and statistical physics in two and more dimensions, 49-154, *Clay Math. Proc.*, **15**, Amer. Math. Soc., Providence, RI, 2012.
- [55] A crossover for the bad configurations of random walk in random scenery, (with Sébastien Blachère and Frank den Hollander), *Annals of Probability*, **39**, (2011), 2018–2041.
- [56] Strong noise sensitivity and random graphs, (with Eyal Lubetzky), *Annals of Probability*, **43**, (2015), 3239–3278.
- [57] Random walks on dynamical percolation: mixing times, mean squared displacement and hitting times (with Yuval Peres and Alexandre Stauffer), *Probability Theory and Related Fields*, **162**, (2015), 487–530.
- [58] Wald for non-stopping times: The rewards of impatient prophets, (with Alexander E. Holroyd and Yuval Peres), *Elect. Comm. in Probab.* **19**, (2014), no. 78, 9pp.
- [59] Scaling limits for the threshold window: When does a monotone Boolean function flip its outcome? (with Daniel Ahlberg) (and with an appendix by Gabor Pete), *Annales Institut Henri Poincaré, Probabilités et Statistiques*, **53**, (2017), 2135–2161.
- [60] Cutoff for the noisy voter model (with Ted Cox and Yuval Peres), *Annals of Applied Probability* **26**, (2016), 917–932.
- [61] Volatility of Boolean functions (with Johan Jonasson), *Stochastic Processes and Their Applications*, **126**, (2016), 2956–2975.
- [62] Generalized Divide and Color models (with Johan Tykesson), preprint.
- [63] Quenched exit times for random walk on dynamical percolation (with Yuval Peres and Perla Sousi), *Markov Processes and Related Fields*, **24**, (2018), 715–731.
- [64] Mixing time for random walk on supercritical dynamical percolation (with Yuval Peres and Perla Sousi), preprint.
- [65] Fortuin-Kasteleyn representations for threshold Gaussian and stable vectors (with Malin Palö Forsström), preprint.