Publication List

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[39] Liu, K. and **Yin, M.** (2025). Descents and flag major index on conjugacy classes of colored permutation groups without short cycles. Extended abstract in Proceedings of the 37th International Conference on Formal Power Series and Algebraic Combinatorics. Full-length version *submitted*. arXiv: 2503.02990

[38] Paguyo, J.E. and **Yin, M.** (2025). Limit distributions for cycles of random parking functions. *Submitted.* arXiv: 2502.07110

[37] Harris, P.E., Ribeiro, R., and **Yin, M.** (2025). Probabilistic (m,n)-parking functions. *Submitted.* arXiv: 2502.00269

[36] Rubey, M. and **Yin, M.** (2025). Fixed points and cycles of parking functions. *Enumer. Combin. Appl.* 5: 2 Article #S2R10

[35] Buchanan, C., Clifton, A., Culver, E., Frankl, P., Nie, J., Ozeki, K., Rombach, P., and **Yin, M.** (2024). On odd covers of cliques and disjoint unions. *Submitted.* arXiv: 2408.08598

[34] Grinberg, D., Roby, T., Wagner, S., and **Yin, M.** (2024). Monomial identities in the Weyl algebra. *Submitted.* arXiv: 2405.20492

[33] Wagner, S. and **Yin, M.** (2024). Statistics of parking functions and labeled forests. Extended abstract in Proceedings of the 35th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms.

[32] Eğecioğlu, O., Gaiser, C., and **Yin, M.** (2023). Enumerating pattern-avoiding permutations by leading terms. *To appear in J. Comb.* arXiv: 2309.15964

[31] Mann, J.T., You, Z., and **Yin, M.** (advisor) (2023). Asymptotic behavior of random defective parking functions. *DUURJ.* 4: 10-18

[30] Stanley, R.P. and **Yin, M.** (2023). Some enumerative properties of parking functions. *Submitted.* arXiv: 2306.08681

[29] Black, A.E., Liu, K., McDonough, A., Nelson, G., Wigal, M.C., **Yin, M.**, and Yoo, Y. (2023). Sampling planar tanglegrams and pairs of disjoint triangulations. *Adv. Appl. Math.* 149: 102550

[28] Kenyon, R. and **Yin, M.** (2023). Parking functions: From combinatorics to probability. *Methodol. Comput. Appl. Probab.* 25: 32

[27] Campion Loth, J., Levet, M., Liu, K., Sundaram, S., and **Yin, M.** (2023). Moments of colored permutation statistics on conjugacy classes. Extended abstract in Proceedings of the 36th International Conference on Formal Power Series and Algebraic Combinatorics. Full-length version *to appear in Ann. Comb.* arXiv: 2305.11800

[26] Durmić, I., Han, A., Harris, P.E., Ribeiro, R., and **Yin, M.** (2023). Probabilistic parking functions. *Electron. J. Combin.* 30: Research Paper 3.18, 25 pp.

[25] Buchanan, C., Clifton, A., Culver, E., Nie, J., O'Neill, J., Rombach, P., and **Yin, M.** (2023). Odd covers of graphs. *J. Graph Theory* 104: 420-439

[24] Hanely, D., Martin, J.L., McGinnis, D., Miyata, D., Nasr, G.D., Vindas-Meléndez, A.R., and **Yin, M.** (2023). Ehrhart theory of paving and panhandle matroids. *Adv. Geom.* 23: 501-526

[23] **Yin, M.** (2022). Remarks on power-law random graphs. *Stochastic Process. Appl.* 153: 183-197

[22] **Yin, M.** (2023). Parking functions, multi-shuffle, and asymptotic phenomena. Extended abstract in Proceedings of the 33rd International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms. Full-length version in *La Mat.* 2: 258-282

[21] **Yin, M.** (2023). Parking functions: Interdisciplinary connections. *Adv. in Appl. Probab.* 55: 768-792

[20] Colaric, E., DeMuse, R., Martin, J.L., and **Yin, M.** (2021). Interval parking functions. *Adv. Appl. Math.* 123: 102129

[19] DeMuse, R. and **Yin, M.** (2021). Dimension reduction in vertex-weighted exponential random graphs. *Phys. A.* 561: 125289

[18] DeMuse, R. and **Yin, M.** (2020). Perspectives on exponential random graphs. *Invited by Contemp. Math.* 741: 59-81

[17] DeMuse, R., Easlick, T., and **Yin, M.** (2019). Mixing time of vertex-weighted exponential random graphs. *J. Comput. Appl. Math.* 362: 443-459

[16] DeMuse, R., Larcomb, D., and **Yin, M.** (2018). Phase transitions in edge-weighted exponential random graphs: near degeneracy and universality. *J. Stat. Phys.* 171: 127-144

[15] Mavi, R. and **Yin, M.** (2018). Ground states for exponential random graphs. *J. Math. Phys.* 59: 013303

[14] **Yin, M.** and Zhu, L. (2017). Asymptotics for sparse exponential random graph models. *Braz. J. Probab. Stat.* 31: 394-412

[13] **Yin, M.** (2017). Statistical physics of exponential random graphs. *Oberwolfach Rep.* 8: 32-34

[12] Kenyon, R. and **Yin, M.** (2017). On the asymptotics of constrained exponential random graphs. *J. Appl. Probab.* 54: 165-180

[11] **Yin, M.**, Rinaldo, A., and Fadnavis, S. (2016). Asymptotic quantization of exponential random graphs. *Ann. Appl. Probab.* 26: 3251-3285

[10] **Yin, M.** (2016). A detailed investigation into near degenerate exponential random graphs. *J. Stat. Phys.* 164: 241-253

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[8] **Yin, M.** (2015). Large deviations and exact asymptotics for constrained exponential random graphs. *Electron. Commun. Probab.* 20: 56, 1-14

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[6] Radin, C. and **Yin, M.** (2013). Phase transitions in exponential random graphs. *Ann. Appl. Probab.* 23: 2458-2471

[5] **Yin, M.** (2013). A Markov chain approach to renormalization group transformations. *Phys. A.* 392: 1347-1354

[4] **Yin, M.** (2012). A cluster expansion approach to exponential random graph models. *J. Stat. Mech. Theory Exp.* P05004

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[2] **Yin, M.** (2011). A cluster expansion approach to renormalization group transformations. *J. Math. Phys.* 52: 033502

[1] **Yin, M.** (2011). Spectral properties of the renormalization group at infinite temperature. *Commun. Math. Phys.* 304: 175-186