

Ryan R. Martin

Publications

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Submitted Publications:

- [54] B. Keszegh, N. Lemons, R.R. Martin, D. Pálvölgyi, and B. Patkós, Induced and non-induced poset saturation problems, submitted. (25pp.) [arXiv]
- [53] R.R. Martin, H.C. Smith, and S. Walker, Improved bounds for induced poset saturation, submitted. (10pp.) [arXiv]
- [52] A. Blumenthal, B. Lidický, R.R. Martin, S. Norin, F. Pfender, and J. Volec, Counterexamples to a conjecture of Harris on Hall ratio, submitted. (11pp.) [arXiv]

Publications to appear:

- [51] J. Kim, R.R. Martin, T. Masařík, W. Shull, H.C. Smith, A. Uzzell, and Z. Wang, On difference graphs and the local dimension of posets, *European J. Combin.* **86** (2020), 13pp.
DOI:10.1016/j.ejc.2019.103074 [arXiv]

Journal Publications:

- [50] M. Dairyko, M. Ferrara, B. Lidický, R.R. Martin, F. Pfender, and A. Uzzell, Ore and Chvátal-type degree conditions for bootstrap percolation from small sets, *J. Graph Theory* **94**(2) (2020), 252–266.
DOI:10.1002/jgt.22517 [arXiv]
- [49] A. Bernshteyn, O. Khormali, R.R. Martin, J. Rollin, D. Rorabaugh, S. Shan, and A. Uzzell, Regular colorings and factors of regular graphs, *Discuss. Math. Graph Theory*, **40**(3) (2020), 795–806.
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- [48] R.R. Martin, A. Methuku, A. Uzzell, and S. Walker, A simple proof for a forbidden subposet problem, *Electron. J. Combin.*, **27**(1) (2020), Research Paper P1.31. (9pp.) [arXiv]
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- [46] M. Axenovich, J. Goldwasser, R. Hansen, B. Lidický, R.R. Martin, D. Offner, J. Talbot, and M. Young, Polychromatic colorings on the integers, *Integers* **19** (2019), Research Paper A18. (17pp.) [arXiv]
- [45] C. Erbes, M. Ferrara, R.R. Martin, and P. Wenger, On the approximate shape of degree sequences that are not potentially H -graphic, *J. Comb.* **10**(2) (2019), 339–363.
DOI:10.4310/JOC.2019.v10.n2.a9 [arXiv]
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DOI:10.4310/JOC.2018.v9.n4.a4 [arXiv]
- [43] C. Erbes, M. Ferrara, R.R. Martin, and P. Wenger, Stability of the potential function, *SIAM J. Discrete Math.* **32**(3) (2018), 2313–2331.
DOI:10.1137/16M1109643 [Journal Copy] [arXiv]
- [42] K. Hogenson, R.R. Martin, and Y. Zhao, Tiling tripartite graphs with 3-colorable graphs: The extreme case, *Graphs Combin.* **34**(5) (2018), 1049–1075. DOI:10.1007/s00373-018-1929-1 [Journal Copy] [arXiv]

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- [40] M. Ferrara, B. Kay, L. Kramer, R.R. Martin, B. Reiniger, H. Smith, and E. Sullivan, The saturation number of induced subposets of the Boolean lattice, *Discrete Math.*, **340**(10) (2017), 2479–2487. DOI:10.1016/j.disc.2017.06.010 [Journal Copy] [arXiv]
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- [22] J. Balogh, R.R. Martin, and A. Pluhár, The diameter game, *Random Structures Algorithms* **35**(3) (2009), 369–389.
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DOI: 10.1016/j.disc.2006.07.041 [Journal Copy]
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- [9] R.R. Martin, A note on a conjecture of Gyárfás, *Ars Combin.* **79** (2006), 311–317. [arXiv]
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Book Chapter:

- R.R. Martin, The edit distance in graphs: methods, results and generalizations, *Recent Trends in Combinatorics*, 31–62, IMA Vol. Math. Appl., **159**, Springer, Cham, 2016. DOI:10.1007/978-3-319-24298-9_2 [Chapter Copy] [PrePrint] [ERRATA]

Extended Abstracts:

- R.R. Martin (based on joint work with J. Balogh and A. Pluhár), The diameter game (extended abstract), in *Oberwolfach Reports* **4**(2) (2007) 1073–1114. [PrePrint]
- A. Frieze, R.R. Martin, J. Moncel, M. Ruszinkó, and C. Smyth, Identifying codes in random networks (extended abstract), *Proceedings of the 2005 IEEE International Symposium on Information Theory (Adelaide, Australia, 2005)* (2005), 1461–1467. [PrePrint]
- R.R. Martin (based on joint work with Cs. Magyar), Tripartite version of the Corrádi-Hajnal Theorem (extended abstract), *Paul Erdős and his mathematics (Budapest, 1999)*, 166–168, *János Bolyai Math. Soc., Budapest*, 1999.

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arXiv Manuscript:

- M. Axenovich and R.R. Martin, A version of Szemerédi's regularity lemma for multicolored graphs and directed graphs that is suitable for induced graphs, 2011. [arXiv]

Dissertations:

- On graph packing, induced subgraphs and intersecting hypergraphs, Ph. D. dissertation, Rutgers University, October 2000. (159pp.) [Thesis]
- Minimum expected time of random walks on rooted trees, Senior thesis, University of Delaware, May 1995. (63pp.)