Ryan R. Martin
Publications

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Submitted Publications:

[66] M. Bóna and R.R. Martin, The endomorphism conjecture for graded posets of width 4, submitted. (9pp.) [arXiv]

[65] J. Balogh, R.R. Martin, D.T. Nagy, and B. Patkós, On generalized Turán results in height two posets, submitted. (13pp.) [arXiv]

[64] C. Cox and R.R. Martin, The maximum number of 10- and 12-cycles in a planar graph, submitted. (7pp.) [arXiv]

[63] C. Cox and R.R. Martin, Counting paths, cycles and blow-ups in planar graphs, submitted. (31pp.) [arXiv]

[62] D. Ghosh, E. Győri, R.R. Martin, A. Paulos, and C. Xiao, Planar Turán number of the 6-cycle, submitted. (27pp.) [arXiv]

Publications to appear:

[61] A. London, R.R. Martin, and A. Pluhár, Graph clustering via generalized colorings, *Theoret. Comput. Sci.*, to appear. (15pp.) [arXiv]

Journal Publications:

[60] A. Blumenthal, B. Lidický, R.R. Martin, S. Norin, F. Pfender and J. Volec, Counterexamples to a conjecture of Harris on Hall ratio, *SIAM J. Discrete Math.*, **36**(3), 1678–1686. DOI:10.1137/18M1229420 [arXiv]

[59] C. Cox, R.R. Martin and D. McGinnis, Accumulation points of the edit distance function, *Discrete Math.*, **345**(7) (2022), Article 112857. (17pp.) DOI:10.1016/j.disc.2022.112857 [arXiv]

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[56] E. Carlson, R.R. Martin, B. Peng, and M. Ruszinkó, Large monochromatic components of small diameter, *J. Graph Theory*, **99**(1) (2022), 247–250. DOI:10.1002/jgt.22739 [arXiv]

[55] M. Axenovich and R.R. Martin, Splits with forbidden subgraphs, *Discrete Math.*, **345**(2) (2022), Article 112689. (8pp.) DOI:10.1016/j.disc.2021.112689 [arXiv]

[54] B. Keszegh, N. Lemons, R.R. Martin, D. Pálvölgyi, and B. Patkós, Induced and non-induced poset saturation problems, *J. Combin. Theory Ser. A*, **184** (2021), Article 105497. (20pp.) DOI:10.1016/j.jcta.2021.105497 [arXiv]

[53] D. Ghosh, E. Győri, R.R. Martin, A. Paulos, N. Salia, C. Xiao, and O. Zamora, The maximum number of paths of length four in a planar graph, *Discrete Math.*, **344**(5) (2021), Article 112317. (6pp.) DOI:10.1016/j.disc.2021.112317 [arXiv]

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Journal Publications (cont.):

[52] R.R. Martin, H.C. Smith, and S. Walker, Improved bounds for induced poset saturation, *Electron. J. Combin.*, **27**(2) (2020), Research Paper P2.31. (9pp.) [arXiv]

[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), Article 103074. (13pp.) DOI:10.1016/j.ejc.2019.103074 [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]

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[37] R.R. Martin and S. Walker, A note on the size of N-free families, *European J. Math.* **3**(2) (2017), 429–432. DOI:10.1007/s40879-017-0139-3 [Journal Copy] [arXiv]

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[18] M. Axenovich and R.R. Martin, Avoiding rainbow induced subgraphs in vertex-colorings, *Electron. J. Combin.* **15**(1) (2008), Research Paper 12. (23pp.) [Journal Copy] [arXiv]

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[14] T. Bohman, A. Frieze, R.R. Martin, M. Ruszinkó, and C. Smyth, On randomly generated intersecting hypergraphs II, *Random Structures Algorithms* **30**(1) (2007), 17–34. DOI:10.1002/rsa.20152 [Journal Copy] [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.

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.)