

Publication List

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Published and accepted

- [1] **2025**, “A note on inverting the dijoin of oriented graphs”, with Tom Johnston, Natasha Morrison, and Shannon Ogden, *Electron. J. Comb.* 32.1, Paper No. 1.44, 12, DOI: [10.37236/13018](https://doi.org/10.37236/13018).
- [2] **2025**, “An Approximate Counting Version of the Multidimensional Szemerédi Theorem”, with Joseph Hyde, Natasha Morrison, Jonathan A. Noel, and Ashna Wright, *Combinatorica*, (accepted) (19 pages), arXiv: [2311.13709](https://arxiv.org/abs/2311.13709).
- [3] **2025**, “Common Pairs of Graphs”, with Natasha Morrison and Jonathan A. Noel, *Comb. Probab. Comput.*, (accepted) (27 pages), arXiv: [2208.02045](https://arxiv.org/abs/2208.02045).
- [4] **2025**, “Thresholds for constrained Ramsey and anti-Ramsey problems”, with Robert Hancock, Joseph Hyde, Shoham Letzter, and Natasha Morrison, *European Journal of Combinatorics*, 104159.
- [5] **2024**, “Improved bounds for cross-Sperner systems”, with Akina Kuperus, Natasha Morrison, and Ashna Wright, *Electron. J. Comb.* 31.2, P2.4, (15 pages), DOI: [10.37236/11860](https://doi.org/10.37236/11860).
- [6] **2024**, “Layered subgraphs of the hypercube”, with Imre Leader, Natasha Morrison, and Kada Williams, *Electron. J. Comb.*, (11 pages), DOI: [10.37236/12980](https://doi.org/10.37236/12980).
- [7] **2024**, “Off-Diagonal Commonality of Graphs via Entropy”, with Natasha Morrison and Jonathan A. Noel, *SIAM J. Discrete Math.* 38.3, 2335–2360, (26 pages), DOI: [10.1137/23M1625342](https://doi.org/10.1137/23M1625342).
- [8] **2024**, “Subgraph Games in the Semi-Random Graph Process and Its Generalization to Hypergraphs”, with Trent G. Marbach, Paweł Prałat, and Andrzej Ruciński, *Electron. J. Comb.* 31.3, P3.30, (18 pages), DOI: [10.37236/11859](https://doi.org/10.37236/11859).
- [9] **2024**, “The Rainbow Saturation Number Is Linear”, with Tom Johnston, Shoham Letzter, Natasha Morrison, and Shannon Ogden, *SIAM J. Discrete Math.* 38.2, 1239–1249, (11 pages), DOI: [10.1137/23M1566881](https://doi.org/10.1137/23M1566881).
- [10] **2023**, “The iterated local transitivity model for hypergraphs”, with Anthony Bonato, Melissa A. Huggan, Rehan Malik, and Trent G. Marbach, *Discrete Appl. Math.* 337, 106–119, (14 pages), DOI: [10.1016/j.dam.2023.04.006](https://doi.org/10.1016/j.dam.2023.04.006).
- [11] **2022**, “Synchronizing times for k -sets in automata”, with Robert Johnson, *Electron. J. Comb.* 29.3, P3.41, (23 pages), DOI: [10.37236/9819](https://doi.org/10.37236/9819).
- [12] **2022**, “The localization capture time of a graph”, with Anthony Bonato, Melissa A. Huggan, Trent G. Marbach, and Brittany Pittman, *Theor. Comput. Sci.* 911, 80–91, (12 pages), DOI: [10.1016/j.tcs.2022.02.007](https://doi.org/10.1016/j.tcs.2022.02.007).
- [13] **2022**, “Tight Bounds on Probabilistic Zero Forcing on Hypercubes and Grids”, with Trent G Marbach and Paweł Prałat, *Electron. J. Comb.* 29.1, P1.3, (20 pages), DOI: [10.37236/10585](https://doi.org/10.37236/10585).
- [14] **2019**, “Semi-perfect 1-factorizations of the hypercube”, *Discrete Math.* 342.6, 1696–1702, (7 pages), DOI: [10.1016/j.disc.2019.01.035](https://doi.org/10.1016/j.disc.2019.01.035).
- [15] **2018**, “Hypergraph saturation irregularities”, *Electron. J. Comb.* 25.2, P2.11, (13 pages), DOI: [10.37236/7727](https://doi.org/10.37236/7727).

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- [16] **2024**, “Creating Subgraphs in Semi-Random Hypergraph Games”, with Paweł Prałat and Andrzej Ruciński, (39 pages), arXiv: [2409.19335](https://arxiv.org/abs/2409.19335).
- [17] **2024**, “Sidorenko-Type Inequalities for Pairs of Trees”, with Gabriel Crudele, Jonathan A. Noel, and Lina M. Simbaqueba, (53 pages), arXiv: [2305.16542](https://arxiv.org/abs/2305.16542).