Publications and Preprints

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Journal papers published

1. Four-coloring P_6-free graphs I. Extending an excellent precoloring. (*with* S. Spirkl and M. Zhong), *SIAM Journal on Computing, 53 (2024), 10.1137/18M1234837*
2. Four-coloring P_6-free graphs II. Finding an excellent precoloring. (*with* S. Spirkl and M. Zhong), *SIAM Journal on Computing, 53 (2024), 10.1137/18M1234849*
3. Induced subgraphs and tree-decompositions V. At most one neighbor in a hole. (*with* Tara Abrishami, Bogdan Alecu, Sepehr Hajebi, Sophie Spirkl and Kristina Vuskovic), *Journal of Graph Theory, 105 (2024), 542-561.*
4. Induced subgraphs and tree-decompositions VII. Basic obstructions in H-free graphs (*with* Tara Abrishami, Bogdan Alecu, Sepehr Hajebi, and Sophie Spirkl), *Journal of Combinatorial Theory, Series B, 164 (2024), 443-472.*
5. Induced subgraphs and tree-decompositions II. Toward walls and their line graphs in graphs of bounded degree. (*with* Tara Abrishami, Cemil Dibek, Sepehr Hajebi, Pawel Rzazewski, Sophie Spirkl and Kristina Vuskovic), *Journal of Combinatorial Theory, Series B, 164 (2024), 371-403.*
6. Characterizing and generalizing cycle completable graphs, (*with* Ian Malcolm Johnson), *Discrete Mathematics, 347 (2024), 113754.*
7. Bipartite graphs with no K_6-minor, (*with* A. Scott, P. Seymour and S.Spirkl), *Journal of Combinatorial Theory, Series B, 164 (2024), 68–104.*
8. Non-uniform degrees and rainbow versions of the Caccetta-Häggkvist conjecture, *with* Ron Aharoni, Eli Berger, He Guo and Shira Zerbib, *SIDMA, 37 (2023), 1704 - 1714.*
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10. Attempting perfect hypergraphs, (*with* Gil Kalai) *Israel J. of Math, 256 (2023), 133-151.*
11. Polynomial bounds for chromatic number. VII. Disjoint holes (*with* Alex Scott, Paul Seymour and Sophie Sprikl) *Journal of Graph Theory, 104 (2023), 499-515.*
12. Strengthening Rodl's theorem, (*with* Alex Scott, Paul Seymour and Sophie Spirkl), *Journal of Combinatorial Theory, Series B, 163 (2023), 256-271.*
13. Pure Pairs X. Excluding six-vertex tournaments, (*with* Alex Scott, Paul Seymour and Sophie Spirkl), *European Journal of Combinatorics, 115 (2024), 103786*
14. Induced subgraphs and tree-decompositions IV. (Even hole, diamond, pyramid)-free graphs (*with* Tara Abrishami, Sepehr Hajebi, and Sophie Spirkl), *Electronic Journal of Combinatorics, 30 (2023), P2.42*

15. Proof of a conjecture of Plummer and Zha, (*with* Paul Seymour) *J. Graph Theory, 103 (2023), 437-450*

16. Erdös-Hajnal for graphs with no 5-hole, (*with* Alex Scott, Paul Seymour and Sophie Spirkl), *Proceedings of the London Mathematical Society, 126 (2023), 997-1014*

17. Stable sets in flag spheres, (*with* Eran Nevo), *Eropean Journal of Combinatorics, 110 (2023), 103699*

18. Polynomial bounds for chromatic number. VI. Adding a four vertex path (*with* Alex Scott, Paul Seymour and Sophie Sprikl), *Eropean Journal of Combinatorics, 110 (2023), 103710*

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20. Induced subgraphs and tree-decompositions III. Three-path-configurations and logarithmic tree-width, (*with* Tara Abrishami, Sepehr Hajebi and Sophie Spirkl), *Advances in Combinatorics (2022)*

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6. Quasi-polynomial time approximation schemes for the Maximum Weight Independent Set Problem in H-free graphs, (*with* Marcin Pillipczuk, Mihal Pillipczuk and Stephan Thomasse), *Proc. SODA'20, 2020*

7. Complexity of C_k-coloring in hereditary classes of graphs, (*with* S. Huang, P. Rzazewski, S. Spirkl, M. Zhong), *27th Annual European Symposium on Algorithms, 2019*

8. Avoidable vertices and edges in graphs, (*with* J. Beisegel, V. Gurvich, M. Milanic and M. Servatius), *Proc. 16th Algorithms and Data Structures Symposium (WADS 2019) Lecture Notes in Computer Science 11646 (2019) 126-139*

9. Four-coloring P_6-free graphs (*with* S. Spirkl and M. Zhong), *Proc. SODA'19, 2019*

10. Analyzing the Performance of Greedy Maximal Scheduling via Local Pooling and Graph Theory, (*with* Berk Birand, Bernard. Ries, Paul Seymour, Gil Zussman and Yori Zwols) Proc. IEEE INFOCOM'10, 2010.

11. Obstructions to 3-coloring P_6-free graphs (*with* J. Goedgebeur, O.Schaudt and M. Zhong), *Proc. SODA'16, 2016*

Papers to appear

1. List-k-coloring H-free graphs for all $k > 4$, (*with* Sepehr Hajebi and Sophie Spirkl), *to appear in Combinatorica*

2. Tree independence number I. (Even hole, diamond, pyramid)-free graphs. (*with* Tara Abrishami, Bogdan Alecu, Sepehr Hajebi, Sophie Spirkl and Kristina Vuskovic), *to appear in Journal of Graph Theory*

3. Induced subgraphs of bounded treewidth and the container method, (*with* T. Abrishami, M. Pilipczuk, P. Rzazewski and P. Seymour), *to appear in SIAM Journal on Computing*

4. Induced subgraphs and tree-decompositions VIII. Excluding a forest in (prism,theta)-free graphs. (*with* Tara Abrishami, Bogdan Alecu, Sepehr Hajebi, and Sophie Spirkl), *to appear in Combinatorica*

5. Submodular functions and perfect graphs, (*with* Tara Abrishami, Cemil Dibek and Kristina Vuskovic), *to appear in Mathematics of Operations Research*

6. Quasi-polynomial time approximation schemes for the Maximum Weight Independent Set Problem in H-free graphs, (*with* Marcin Pillipczuk, Mihal Pillipczuk and Stephan Thomasse), *to appear in SIAM Journal on Computing*

Papers submitted for publication

1. Sparse induced subgraphs in P_6-free graphs. (*with* Rose McCarty, Marcin Pilipczuk, Mihal Pilipczuk and Pawel Rzazewski) *submitted for publication*

2. Even pairs in graphs with no balanced skew-partitions, (*with* Tara Abrishami and Yaqian Tang) *submitted for publicaton*

3. Max Weight Independent Set in sparse graphs with no long claws, (*with* T. Abrishami, C. Dibek, M. Pilipczuk and P. Rzazewski) *submitted for publication*

4. On prime Cayley graphs, (*with* M. Cizek, L. Crew, J. Minac, T.T. Nguyen, S. Spirkl, and N. D. Tan) *submitted for publication*

5. The structure of metrizable graphs, (*with* Danile Cizma and Nati Linial), *submitted for publication*

6. Induced subgraphs and tree-decompositions XIV. Non-adjacent neighbors in a hole. (*with* Sepehr Hajebi and Sophie Spirkl), *submitted for publication*

7. Induced subgraphs and tree-decompositions XIII. Basic obstructions in $\mathcal{H}$-free graphs for finite $\mathcal{H}$. (*with* Bogdan Alecu, Sepehr Hajebi and Sophie Spirkl), *submitted for publication*

8. Reuniting χ-boundedness with polynomial χ-boundedness, (*with* Linda Cook, James Davies and Sang-il Oum), *submitted for publication*

9. Graphs with no even holes and no sector wheels are the union of two chordal graphs (*with* Tara Abrishami, Eli Berger and Shira Zerbib), *submitted for publication*

10. Induced subgraphs and tree-decompositions XII. Grid theorem for pinched graphs (*with* Bogdan Alecu, Sepehr Hajebi and Sophie Spirkl), *submitted for publication*

11. Induced subgraphs and tree-decompositions XI. Local structure in even-hole-free graphs of large treewidth. (*with* Bogdan Alecu, Sepehr Hajebi and Sophie Spirkl), *submitted for publication*

12. Induced subgraphs and tree-decompositions X. Towards logarithmic treewidth in even hole free graphs. (*with* Tara Abrishami, Bogdan Alecu, Sepehr Hajebi, and Sophie Spirkl), *submitted for publication*

13. Induced subgraphs and tree-decompositions IX. Grid theorem for perforated graphs (*with* Bogdan Alecu, Sepehr Hajebi and Sophie Spirkl), *submitted for publication*

14. Cops and robbers in P_5-free graphs. (*with* Sergey Norin, Paul Seymour and Jeremie Turcotte), *submitted for publication*

15. Induced subgraphs and tree-decompositions VI. Graphs with 2-cutsets. (*with* Tara Abrishami, Sepehr Hajebi, and Sophie Spirkl), *submitted for publication*

Manuscripts not yet submitted and papers in preparation

1. Induced subgraphs and tree-decompositions XVI. Anticomplete induced subgraphs of large treewidth. (*with* Sepehr Hajebi and Sophie Spirkl), *in preparation*

2. Tree independence number IV. Thetas, prisms and stars. (*with* Sepehr Hajebi, Sophie Spirkl and Nicolas Trotignon), *in preparation*

3. Tree independence number III. Even-hole-free graphs. (*with* Peter Gartland, Sepehr Hajebi, Daniel Lokshtanov and Sophie Spirkl), *in preparation*

4. Induced minors and tree-independence number, (*with* M. Hatzel, T. Korhonen, N. Trotignon, and S. Wiederrech), *in preparation*

5. Tree independence number II. 3PC-free graphs. (*with* Sepehr Hajebi, Daniel Lokshtanov and Sophie Spirkl), *in preparation*

6. Induced subgraphs and tree-decompositions XV. Even-hole-free graphs with bounded clique number have logarithmic treewidth. (*with* Peter Gartland, Sepehr Hajebi, Daniel Lokshtanov and Sophie Spirkl), *manuscript*

7. Maximum independent sets in (pyramid, even hole)-free graphs, (*with* Stephan Thomasse, Nicolas Trotignon and Kristina Vuskovic), *manuscript*

8. Small families under subdivision, (*with* M. Loebl and P. Seymour), *manuscript*

9. Optimal anti-thikenings of claw-free graphs (*with* Andrew King), *manuscript*

10. On the Erdös-Lovász Tihany Conjecture in claw-free graphs, (*with* Alexandra Fradkin and Matthieu Plumettaz), *manuscript*