Publications and Preprints

Maria Chudnovsky

Journal papers published

1. Even pairs in graphs with no balanced skew-partitions, (*with* Tara Abrishami and Yaqian Tang) *Discrete Mathematics, 348 (2025), 114388.*

2. Induced subgraphs and tree-decompositions XIV. Non-adjacent neighbors in a hole. (*with* Sepehr Hajebi and Sophie Spirkl), *European Journal of Combinatorics, 124 (2025), 104074.*

3. Induced subgraphs and tree-decompositions VIII. Excluding a forest in (prism,theta)-free graphs. (*with* Tara Abrishami, Bogdan Alecu, Sepehr Hajebi, and Sophie Spirkl), *Combinatorica, 44 (2024), 921–948.*

4. List-k-coloring H-free graphs for all $k > 4$, (*with* Sepehr Hajebi and Sophie Spirkl), *Combinatorica, 44 (2024), 1063–1068.*

5. Quasi-polynomial time approximation schemes for the Maximum Weight Independent Set Problem in H-free graphs, (*with* Marcin Pillipczuk, Mihal Pillipczuk and Stephan Thomasse), *SIAM Journal on Computing, 53 (2024), 47–86.*

6. Induced subgraphs and tree-decompositions VI. Graphs with 2-cutsets. (*with* Tara Abrishami, Sepehr Hajebi, and Sophie Spirkl) *Discrete Math, 348 (2025), 114195*

7. Graphs with no even holes and no sector wheels are the union of two chordal graphs (*with* Tara Abrishami, Eli Berger and Shira Zerbib), *European Journal of Combinatorics, 122 (2024), 104035.*

8. Induced subgraphs of bounded treewidth and the container method, (*with* T. Abrishami, M. Pilipczuk, P. Rzazewski and P. Seymour), *SIAM Journal on Computing, 53 (2024), 10.1137/20M1383732.*

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12. Four-coloring P_6-free graphs II. Finding an excellent precoloring. (*with* S. Spirkl and M. Zhong), *SIAM Journal on Computing, 53 (2024), 146–187*

13. 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.*

14. 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.*

15. 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.*

16. Characterizing and generalizing cycle completable graphs, (*with* Ian Malcolm Johnson), *Discrete Mathematics, 347 (2024), 113754.*

17. 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.*

18. 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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20. Attempting perfect hypergraphs, (*with* Gil Kalai) *Israel J. of Math, 256 (2023), 133-151.*

21. Polynomial bounds for chromatic number. VII. Disjoint holes (*with* Alex Scott, Paul Seymour and Sophie Sprikl) *Journal of Graph Theory, 104 (2023), 499-515.*

22. Strengthening Rodl's theorem, (*with* Alex Scott, Paul Seymour and Sophie Spirkl), *Journal of Combinatorial Theory, Series B, 163 (2023), 256-271.*

23. Pure Pairs X. Excluding six-vertex tournaments, (*with* Alex Scott, Paul Seymour and Sophie Spirkl), *European Journal of Combinatorics, 115 (2024), 103786*

24. 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*

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

26. 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*

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28. 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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165. Recognizing Berge Graphs (*with* G.Cornuéjols, X.Liu, P.Seymour, K.Vušković) *Combinatorica 25(2005), 143-187*

166. Detecting Even Holes (*with* K. Kawarabayashi, P. Seymour) *Journal of Graph Theory 48(2005), 85-111*

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168. Berge Trigraphs and Their Applications, *Ph.D. Thesis, Princeton University, 2003*

169. Triangulated Spheres and Colored Cliques (*with* R. Aharoni, A. Kotlov) *Discrete and Computational Geometry 28 (2002), 223-229*

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Conference Proceedings

1. Tree independence number IV. Even-hole-free graphs. (*with* Peter Gartland, Sepehr Hajebi, Daniel Lokshtanov and Sophie Spirkl), *Proc. SODA'25, 2025*

2. Sparse induced subgraphs in P_6-free graphs. (*with* Rose McCarty, Marcin Pilipczuk, Mihal Pilipczuk and Pawel Rzazewski) *Proc. SODA'24, 2024*

3. Max weight independent set in sparse graphs with no long claws (*with* Tara Abrishami, Marcin Pilipczuk and Pawel Rzazewski), *Leibniz International Proceedings in Informatics (STAC2024).*

4. Polynomial-time algorithm for maximum independent set in graphs with no long induced claws (*with* Tara Abrishami, Cemil Dibek and Pawel Rzazewski), *Proc. SODA'22, 2022*

5. Induced subgraphs of bounded treewidth and the container method, (*with* T. Abrishami, M. Pilipczuk, P. Rzazewski and P. Seymour), *Proc. SODA'21, 2021*

6. Finding large H-colorable subgraphs in hereditary graph classes, (*with* J. King, Mihal Pilipczuk, P. Rzazewski and S. Spirkl), *28th Annual European Symposium on Algorithms, 2020*

7. 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*

8. 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*

9. 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*

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

11. 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.

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

Papers to appear

1. Counting independent sets in structured graphs. (*with* Matija Bucić and Julien Codsi) *to appear in Combinatorics Probability and Computing*

2. Induced subgraphs and tree-decompositions IX. Grid theorem for perforated graphs (*with* Bogdan Alecu, Sepehr Hajebi and Sophie Spirkl), *to appear in Advances in Combinatorics*

3. Induced subgraphs and tree-decompositions XII. Grid theorem for pinched graphs (*with* Bogdan Alecu, Sepehr Hajebi and Sophie Spirkl), *to appear in Innovations in Graph Theory*

4. On prime Cayley graphs, (*with* M. Cizek, L. Crew, J. Minac, T.T. Nguyen, S. Spirkl, and N. D. Tan) *to appear in Journal of Combinatorics*

5. 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), *to appear in Advances in Combinatorics*

6. The structure of metrizable graphs, (*with* Danile Cizma and Nati Linial), *to appear in Discrete And Computational Geometry*

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

Papers submitted for publication

1. Tree independence number V. Claws and walls. (*with* Julien Codsi, Daniel Lokshtanov, Martin Milanič and Varun Sivashankar), *submitted for publication*

2. Strictly metrizable graphs are minor closed. (*with* Daniel Cizma and Nati Linial), *submitted for publication*

3. Colouring t-perfect graphs (*with* Linda Cook, James Davies, Sang-il Oum and Jane Tan) *submitted for publication*

4. Induced subgraphs and tree-decompositions XVIII. Obstructions to bounded pathwidth. (*with* Sepehr Hajebi and Sophie Spirkl), *submitted for publication*

5. Induced subgraphs and tree-decompositions XVII. Anticomplete sets of large treewidth. (*with* Sepehr Hajebi and Sophie Spirkl), *submitted for publication*

6. Tree independence number IV. Even-hole-free graphs. (*with* Peter Gartland, Sepehr Hajebi, Daniel Lokshtanov and Sophie Spirkl), *submitted for publication*

7. Induced subgraphs and tree-decompositions XVI. Complete bipartite induced minors. (*with* Sepehr Hajebi and Sophie Spirkl), *submitted for publication*

8. Tree independence number III. Thetas, prisms and stars. (*with* Sepehr Hajebi and Nicolas Trotignon), *submitted for publication*

9. On treewidth and maximum cliques. (*with* Nicolas Trotignon), *submitted for publication*

10. Tree independence number II. 3PC-free graphs. (*with* Sepehr Hajebi, Daniel Lokshtanov and Sophie Spirkl), *submitted for publication*

11. Unavoidable induced subgraphs in graphs with complete bipartite induced minors. (*with* M. Hatzel, T. Korhonen, N. Trotignon, and S. Wiederrech), *submitted for publication*

12. 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), *submitted for publication*

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

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

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

16. 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*

17. 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*

Manuscripts not yet submitted and papers in preparation

1. The vertex sets of subtrees of a tree, (*with* Tung Nguyen, Alex Scott and Paul Seymour), *in prepartion*

2. Coarse Balanced Separators and Tree-Decompositions, (*with* Robert Hickingbotham), *manuscipt*

3. Induced subgraphs and tree-decompositions XIX. Obstructions with bounded domination-treewidth, (*with* Sepehr Hajebi and Sophie Spirkl), *in preparation*

4. Induced subgraphs and tree-decompositions XX. Excluding a theta and a tree, (*with* Julien Codsi, Sepehr Hajebi and Sophie Spirkl), *in preparation*

5. Tree independence number VI. Excluding a theta and a pyramid, (*with* Julien Codsi, Sepehr Hajebi and Sophie Spirkl), *in preparation*

6. Treewidth and outer-string graphs, (*with* David Fischer, Sepehr Hajebi, Sophie Spirkl and Bartosz Walczak), *in preparation*

7. Tree-independence number of P_6-free graphs excluding a $K_{2,t}$, (*with* Julien Codsi, Martin Milanič and Varun Sivashankar), *in preparation*

8. Localized Erdős-Pósa property for binary tree subdivisions, (*with* Icey Siyi Ai), *in preparation*

9. Bandwidth and subtrees. (*with* Daniel Lokshtanov and Eran Nevo), *in preparation*

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

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

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

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