

Publications and Preprints

Maria Chudnovsky

Journal papers published

1. Strongly perfect claw-free graphs—a short proof (*with Cemil Dibek*), *appeared on-line in Journal of Graph Theory*
[https : //doi.org/10.1002/jgt.22659](https://doi.org/10.1002/jgt.22659).
2. Better 3-coloring algorithms: excluding a triangle and a seven vertex path, (*with F. Bonomo, J. Goedgebeuer, P. Maceli, O. Schaudt, M. Stein and M. Zhong*), *in Theoretical Computer Science*, 850 (2021), 98-115.
3. Pure pairs I. Trees and linear anticomplete pairs. (*with A. Scott, P. Seymour and S.Spirkl*), *Advances in Mathematics*, 375 (2020), 107396.
4. List-three-coloring P_t -free graphs with no induced 1-subdivision of $K_{1,s}$, (*with Sophie Spirkl and Mingxian Zhong*), *Discrete Math*, 343 (2020), 112086.
5. 3-coloring graphs with no $P_6 + rP_3$, (*with S. Huang, S. Spirkl and M. Zhong*), *Algorithmica* (2020).
6. On maximum weight independent sets in graphs with no induced cycle of length at least five, (*with M. Pillipczuk, M. Pillipczuk and S. Thomasse*), *SIDMA*, 34 (2020), 1472-1483.
7. Detecting a long odd hole, (*with Alex Scott and Paul Seymour*), *Combinatorica* 41 (2021), 1-30.
8. Subdivided claws and the clique-stable set separation problem (*with P. Seymour*), *in D. Wood, J. de Gier, C. Praeger, T. Tao (eds) 2019-2020 MATRIX Annals, Springer, 2020*.
9. Proof of the Kalai-Meshulam conjecture. (*with A. Scott, P. Seymour and S. Spirkl*) *Israel Journal of Math*, 238 (2020), 639–661
10. Induced equators in flag spheres, (*with Eran Nevo*) *Journal of Combinatorial Theory, Ser. A*, 176 (2020), 105283
11. Coloring graphs with no induced five-vertex path or gem (*with T. Karthick, P. Maceli and F. Maffray*) *Journal of Graph Theory*, 95 (2020), 527-542.
[https : //doi.org/10.1002/jgt.22572](https://doi.org/10.1002/jgt.22572)
12. Pure pairs III. Sparse graphs with no polynomial-size anticomplete pairs. (*with J. Fox, A. Scott, P. Seymour and S.Spirkl*), *appeared on-line Journal of Graph Theory*,
[https : //doi.org/10.1002/jgt.22556](https://doi.org/10.1002/jgt.22556)
13. Excluding the fork and antifork (*with L. Cook and P. Seymour*), *Discrete Mathematics*, 343 (2020), Article 111786,

14. Detecting an odd hole, (*with* Alex Scott, Paul Seymour and Sophie Spirkl), *JACM* 67 (2020), Article 5,
[https : //doi.org/10.1145/3375720](https://doi.org/10.1145/3375720)
15. Cooperative colorings of trees and of bipartite graphs. (*with* Ron Aharoni, Eli Berger, Frederic Havet and Zilin Jiang), *Electronic Journal of Combinatorics* 27 (2020) P1.41
16. Obstructions to three-coloring and list-three-coloring H -free graphs, (*with* J. Goedgebeur, O. Schaudt and M. Zhong), *SIDMA*, 34 (2020), 431-469.
17. Induced subgraphs of graphs with large chromatic number VIII. Long odd holes, (*with* A. Scott, P. Seymour and S. Spirkl), *Journal of Combinatorial Theory, Ser. B*, 140 (2020), 84-97
18. Obstructions for three-coloring graphs with no induced paths on six vertices(*with* J. Goedgebeur, O.Schaudt and M. Zhong), *Journal of Combinatorial Theory, Ser. B*, 140 (2020), 45-83
19. Approximately coloring graphs without long induced paths, (*with* O. Schaudt, S. Spirkl, M. Stein and M. Zhong), *Algorithmica*, 81 (2019). 3186-3199
20. Induced subgraphs of graphs with large chromatic number. XII. Distant Stars. (*with* A. Scott and P. Seymour), *Journal of Graph Theory*, 92 (2019), 237-254.
21. Towards Erdős-Hajnal for graphs with no 5-hole. (*with* Jacob Fox, Alex Scott, Paul Seymour and Sophie Spirkl), *Combinatorica*, 39 (2019), 983-991
22. Disjoint paths in unions of tournaments. (*with* Alex Scott and Paul Seymour), *Journal of Combinatorial Theory*, 135 (2019), 96-129
23. Large rainbow matchings in general graphs, (*with* R. Aharoni, E.Berger, D. Howard and P. Seymour), *European Journal of Combinatorics*, 79 (2019) 222-227
24. $\{ISK_4, triangle\}$ -free graphs are 3-colorable, (*with* C.-H. Lui, O. Schaudt, S. Spirkl, N. Trotignon, and K. Vuskovic), *Journal of Graph Theory*, 92 (2019), 67-95
25. Coloring square-free Berge graphs (*with* F. Maffray, I. Lo, N. Trotignon and K. Vuskovic), *Journal of Combinatorial Theory, Ser. B* 135 (2019), 96-128.
26. Induced subgraphs of graphs with large chromatic number XI. Orientations. (*with* A. Scott and P. Seymour), *European Journal of Combinatorics*, 76 (2019) 53-61.
27. On the Erdős-Hajnal Conjecture for six-vertex tournaments. (*with* E. Berger and K. Choromanski), *European Journal of Combinatorics*, 75 (2019) 113-122.

28. Vertex-minors and the Erdős-Hajnal conjecture. (with Sang-il Oum), *Discrete Math* 341 (2018) 3498-3499.
29. Triangle-free graphs with no six-vertex induced path. (with P. Seymour, S.Spirkl and M. Zhong), *Discrete Math*, 341 (2018) 2179-2196
30. Perfect divisibility and 2-divisibility, (with Vaidy Sivaraman) *Journal of Graph Theory*, 90 (2018), 54-60.
31. 3-colorable subclasses of P_8 -free graphs, (with Juraj Stacho), *SIDMA*, 32 (2018), 1111-1138
32. Piercing axes-parallel boxes. (with Sophie Spirkl and Shira Zerbib) *Electronic Journal of Combinatorics* 25 (2018) #P1.70
33. The sandwich problem for decompositions and almost monotone properties, (with C.M.H. de Figueiredo and S. Spirkl), *Algorithmica* 12 (2018), 3618-3645.
34. Even pairs and prism corners in Berge graphs, (with F. Maffray, P. Seymour and S.Spirkl), *JCT B*, 131 (2018), 12-39 with a corrigendum *JCT B*, 133 (2018) 259-260.
35. Odd-holes in bull-free graphs. (with Vaidy Sivaraman) *SIDMA*, 32 (2018), 951-955
36. A Short Proof of the Wonderful Lemma, *Journal of Graph Theory*, 87 (2018), 271-274
37. Domination in tournaments (with R. Kim, C.-H. Liu, P. Seymour and S. Thomasse), *Journal of Combinatorial Theory, Ser. B* 130 (2018), 98-113.
38. Three-coloring and list three-coloring of graphs without induced paths on seven vertices (with F. Bonomo, P. Maceli, O. Schaudt, M. Stein and M. Zhong), *Combinatorica* 38 (2018) 779-801.
39. Fair representations by independent sets, (with R. Aharoni, N. Alon, E. Berger, D. Kotlar, M. Loeb and R. Ziv), In: *Loeb M., Nešetřil J., Thomas R. (eds) A Journey Through Discrete Mathematics. Springer*, 31-58.
40. Induced subgraphs of graphs with large chromatic number III. Long holes, (with Alex Scott and Paul Seymour), *Combinatorica*, 37 (2017), 1057-1072
41. Decomposing and clique-coloring (Diamond, Odd-hole)-free graphs (with Irene Lo), *Journal of Graph Theory*, 86 (2017), 5-41
42. 4-coloring P_6 -free graphs with no induced 5-cycles. (with Peter Maceli, Juraj Stacho and Mingxian Zhong), *Journal of Graph Theory*, 84 (2017), 262-285

43. Graphs with no induced five-vertex path or antipath, (*with* L. Esperet, L. Lemoine, P. Maceli, F. Maffray and I. Penev), *Journal of Graph Theory*, 84 (2017), 221-232
44. Coloring perfect graphs with bounded clique number, (*with* A. Lagoutte, P. Seymour, S. Spirkl), *Journal of Combinatorial Theory, Ser B* 122 (2017), 757-775
45. Disjoint dijoins (*with* Katherine Edwards, Ringi Kim, Alex Scott and Paul Seymour), *Journal of Combinatorial Theory, Ser B* 120 (2016), 18-35
46. Unavoidable induced subgraphs in large graphs with no homogeneous sets (*with* R. Kim, S. Oum and P. Seymour), *Journal of Combinatorial Theory, Ser. B*, 118 (2016), 1-12
47. Induced subgraphs of graphs with large chromatic number II. Three steps towards Gyarfás's conjecture, (*with* Alex Scott and Paul Seymour), *Journal of Combinatorial Theory, Ser B*, 118 (2016), 109-128
48. Bipartite minors (*with* Gil Kalai, Eran Nevo, Isabella Novik and Paul Seymour), *Journal of Combinatorial Theory, Ser B* 116 (2016), 219-228
49. Immersion in four-edge-connected graphs, (*with* Zdenek Dvorak, Tereza Klimosova, Paul Seymour), *Journal of Combinatorial Theory, Ser B* 116 (2016), 208-218
50. A De Bruijn–Erdős theorem for chordal graphs (*with* Laurent Beaudou, Adrian Bondy, Xiaomin Chen, Ehsan Chiniforooshan, Vašek Chvátal, Nicolas Fraiman, Yori Zwols), *Electronic Journal of Combinatorics*, 22 (2015), 1.70
51. Excluding paths and antipaths (*with* Paul Seymour), *Combinatorica*, 35 (2015), 389-412.
52. Edge-coloring 7-regular planar graphs (*with* Katherine Edwards, Ken-ichi Kawarabayashi and Paul Seymour), *Journal of Combinatorial Theory, Ser B* 115 (2015), 276-302.
53. Edge-coloring 8-regular planar graphs (*with* Katherine Edwards and Paul Seymour), *Journal of Combinatorial Theory, Ser B* 115 (2015), 303-338.
54. Coloring perfect graphs with no balanced skew-partitions (*with* Nicolas Trotignon, Théophile Trunck and Kristina Vusković), *Journal of Combinatorial Theory, Ser B* 115 (2015), 26-65.
55. Cliques in the union of graphs (*with* Ron Aharoni, Eli Berger and Juba Ziani), *Journal of Combinatorial Theory, Ser B* 114 (2015), 170-186.
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57. Disjoint paths in tournaments (*with* Alex Scott and Paul Seymour), *Advances in Mathematics*, 270 (2015), 582-597.
58. Wheel-free planar graphs (*with* Pierre Aboulker, Paul Seymour and Nicolas Trotignon), *European Journal of Combinatorics* (2015), pp. 57-67
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60. Simplicial vertices in graphs with no induced four-edge path or four-edge antipath, and the H_6 -conjecture (*with* Peter Maceli), *Journal of Graph Theory*, 76 (2014), 249-261.
61. Coloring graphs with forbidden induced subgraphs, *Proceedings of the ICM*, 2014, 291-302.
62. Tournaments with near-linear transitive subsets, (*with* Krzysztof Choromanski and Paul Seymour), *Journal of Combinatorial Theory, Ser B* 109 (2014), 228-249.
63. Large cliques and stable sets in undirected graphs, *in Geometry, Structure and Randomness in Combinatorics, Publications of the Scuola Normale Superiore / CRM Series*, (eds: J. Matousek, J. Nešetřil and M. Pellegrini), Edizioni della Normale
64. Excluding pairs of graphs (*with* Alex Scott and Paul Seymour), *Journal of Combinatorial Theory, Ser B*, 106(2014), 15-29
65. Lines in hypergraphs (*with* Laurent Beaudou, Adrian Bondy, Xiaomin Chen, Ehsan Chiniforooshan, Vašek Chvátal, Nicolas Fraiman, Yori Zwols), *Combinatorica*, 33 (2013), 633-654
66. The Erdős-Hajnal conjecture—A Survey, *Journal of Graph Theory*, 75 (2014), 178-190
67. The structure of claw-free perfect graphs (*with* with Matthieu Plumettaz), *Journal of Graph Theory*, 75 (2014), 203-230
68. Rao's conjecture on degree sequences (*with* Paul Seymour), *Journal of Combinatorial Theory, Ser. B* , 105 (2014), 44-92
69. Extending the Gyárfás-Sumner conjecture (*with* Paul Seymour), *Journal of Combinatorial Theory, Ser. B* , 105 (2014), 11-16
70. Detecting an induced net subdivision (*with* Paul Seymour and Nicolas Trotignon), *Journal of Combinatorial Theory, Ser. B* , 103 (2013), 630-641

71. Substitutions and χ -boundedness (*with* Irena Penev, Alex Scott and Nicolas Trotignon), *Journal of Combinatorial Theory, Ser. B* , 103 (2013), 567-586
72. The structure of bull-free perfect graphs (*with* Irena Penev), *Journal of Graph Theory*, 74 (2013), 1-31
73. A counterexample to a conjecture of Schwartz (*with* Felix Brandt, Ilhee Kim, Gaku Liu, Sergey Norin, Alex Scott, Paul Seymour and Stephan Thomasse) *Social Choice and Welfare*, 40 (2013), 739-743
74. A local strengthening of Reed's ω , Δ , and χ conjecture for quasi-line graphs (*with* Andrew King, Matthieu Plumettaz and Paul Seymour), *SIDMA*, 27 (2013), 95-108
75. Finding minimum clique capacity (*with* Sang-il Oum and Paul Seymour) *Combinatorica*, 32 (2012), 283-287
76. Packing seagulls (*with* Paul Seymour) *Combinatorica*, 32 (2012), 251-282
77. Clawfree Graphs VII. Quasi-line graphs (*with* Paul Seymour) *Journal of Combinatorial Theory, Ser. B* , 102 (2012), 1267-1294
78. Growing without cloning (*with* Paul Seymour), *SIDMA*, 26 (2012), 860-880
79. Tournaments and coloring (*with* Eli Berger, Krzysztof Choromanski, Jacob Fox, Martin Loebl, Alex Scott, Paul Seymour and Stephan Thomassé), *Journal of Combinatorial Theory, Ser. B* , 103 (2013), 1-20
80. Perfect matchings in planar cubic graphs (*with* Paul Seymour) *Combinatorica*, 32 (2012), 403-424
81. Large cliques or stable sets in graphs with no four-edge path and no five-edge path in the complement (*with* Yori Zwols), *Journal of Graph Theory*, 70 (2012), 449 - 472
82. Excluding induced subdivisions of the bull and related graphs (*with* Irena Penev, Alex Scott and Nicolas Trotignon), *Journal of Graph Theory*, 71 (2012), 49 - 68
83. Tournament immersion and cutwidth (*with* Alexandra Fradkin and Paul Seymour) *Journal of Combinatorial Theory. Ser B*, 102 (2012), 93-101
84. Three-colorable perfect graphs without even pairs (*with* Paul Seymour) *Journal of Combinatorial Theory. Ser B*, 102 (2012), 363-394
85. 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), *IEEE/ACM Trans. Netw.* 20 (2012), 163–176.

86. The structure of bull-free graphs I — Three-edge-paths with center and anticenters
Journal of Combinatorial Theory. Ser B, 102 (2012), 233-251
87. The structure of bull-free graphs II and III—a summary, *Journal of Combinatorial Theory. Ser B*, 102 (2012), pp. 252-282
88. Claw-free graphs with strongly perfect complements. Fractional and integral version. Part I. Basic graph (with Bernard Ries and Yori Zwols) *Discrete Applied Math*, 159(2011), 1971-1995
89. Claw-free graphs with strongly perfect complements. Fractional and integral version. Part II. Nontrivial strip structures (with Bernard Ries and Yori Zwols) *Discrete Applied Math*, 159(2011), 1996-2029
90. Edge density for $K_{2,t}$ minors (with Bruce Reed and Paul Seymour) *Journal of Combinatorial Theory. Ser B*, 101 (2011), 18-46
91. Hadwigers conjecture and seagull packing, *Notices Amer. Math. Soc.* 57 (2010), 733-736
92. A well-quasi-order for tournaments (with Paul Seymour) *Journal of Combinatorial Theory. Ser B*, 101 (2011), 47-53
93. Clawfree Graphs VI. Coloring claw-free graphs (with Paul Seymour) *Journal of Combinatorial Theory. Ser B*, 100 (2010), 560-572
94. K_4 -free graphs with no odd holes (with N. Robertson, P. Seymour and R. Thomas) *Journal of Combinatorial Theory. Ser B*, 100 (2010), 313-331
95. The three-in-a-tree problem (with Paul Seymour) *Combinatorica*, 30 (2010), 387-417
96. An approximate version of Hadwiger's conjecture for claw-free graphs (with Alexandra Ovetsky Fradkin) *Journal of Graph Theory*, 63 (2010) 259-278
97. Partial characterizations of clique-perfect graphs II : diamond-free and Helly circular-arc graphs (with Flavia Bonomo and Guillermo Durán) *Discrete Mathematics*, 309 (11) (2009), 3485-3499
98. Even pairs in Berge graphs (with Paul Seymour) *Journal of Combinatorial Theory. Ser B*, 99 (2009), 370-377
99. Bisimplicial vertices in even-hole-free graphs (with L. Addario-Berry, F. Havet, B. Reed and P. Seymour) *Journal of Combinatorial Theory. Ser B*, 98 (2008), 1119-1164

100. Clawfree Graphs V — Global structure (*with Paul Seymour*) *Journal of Combinatorial Theory. Ser B*, 98 (2008), 1373-1410
101. The Erdos Hajnal Conjecture for bullfree graphs (*with S. Safra*) *Journal of Combinatorial Theory. Ser B*, 98 (2008), 1301-1310
102. Hadwiger's conjecture for quasi-line graphs (*with A. Overtsky Fradkin*) *Journal of Graph Theory* 59 (2008), 17-33
103. Detecting a theta or a prism (*with R. Kapadia*) *SIAM Journal on Discrete Math* 22(2008), 1164-1186
104. An algorithm for packing non-zero A -paths in group-labeled graphs (*with William H. Cunningham and Jim Geelen*) *Combinatorica* 28(2008), 145-161
105. Cycles in dense digraphs (*with Paul Seymour and Blair Sullivan*) *Combinatorica* 28(2008), 1-18
106. Partial characterizations of clique-perfect graphs I : subclasses of claw-free graphs (*with Flavia Bonomo and Guillermo Durán*) *Discrete Applied Mathematics* 156 (2008), 1058-1082
107. Clawfree Graphs IV — Decomposition theorem (*with Paul Seymour*) *Journal of Combinatorial Theory. Ser B*, 98 (2008), 839-938
108. Solution of three problems of Cornuéjols (*with Paul Seymour*) *Journal of Combinatorial Theory. Ser B*, 98 (2008), 116-135
109. Clawfree Graphs III — Circular interval graphs (*with Paul Seymour*) *Journal of Combinatorial Theory. Ser B* 98(2008), 812-834
110. Clawfree Graphs II — Non-orientable prismatic graphs (*with Paul Seymour*) *Journal of Combinatorial Theory. Ser B*, 98 (2008), 249-290
111. Clawfree Graphs I — Orientable prismatic graphs (*with Paul Seymour*) *Journal of Combinatorial Theory. Ser B*, 97 (2007), 867-901
112. Excluding induced subgraphs (*with Paul Seymour*) *Surveys in Combinatorics 2007, London Math Soc Lecture Note Series* 346, 99-119
113. Coloring quasi-line graphs (*with Alexandra Ovetsky*) *Journal of Graph Theory* 54(2007), 41-50
114. The Roots of the Independence Polynomial of a Clawfree Graph (*with Paul Seymour*) *Journal of Combinatorial Theory. Ser B*, 97 (2007), 350-357

115. The Strong Perfect Graph Theorem (*with* N.Robertson, P.Seymour, R.Thomas) *Annals of Math* 164(2006), 51-229
116. Non-zero A-paths in graphs with edges labeled by group elements (*with* Jim Geelen, Bert Gerards, Luis Goddyn, Michael Lohman, and Paul Seymour) *Combinatorica, Ser. B* 26(2006), 521-532
117. Berge Trigraphs *Journal of Graph Theory* 53(2006), 1-55
118. The Structure of Clawfree Graphs (*with* Paul Seymour) *Surveys in Combinatorics 2005, London Math Soc Lecture Note Series* 327, 153-171
119. Partial characterizations of clique-perfect graphs, (*with* F. Bonomo, and G.Durán) *Electronic Notes in Discrete Mathematics* 19(2005), 95–101 (extended abstract)
120. Recognizing Berge Graphs (*with* G.Cornuéjols, X.Liu, P.Seymour, K.Vušković) *Combinatorica* 25(2005), 143-187
121. Detecting Even Holes (*with* K. Kawarabayashi, P. Seymour) *Journal of Graph Theory* 48(2005), 85-111
122. Progress on Perfect Graphs (*with* N.Robertson, P.Seymour, R.Thomas) *Mathematical Programming Ser. B* 97(2003), 405-422
123. Berge Trigraphs and Their Applications, *Ph.D. Thesis, Princeton University, 2003*
124. Triangulated Spheres and Colored Cliques (*with* R. Aharoni, A. Kotlov) *Discrete and Computational Geometry* 28 (2002), 223-229
125. Systems of Disjoint Representatives, *M.Sc. Thesis, The Technion, 1999*

Conference Proceedings

1. Induced subgraphs of bounded treewidth and the container method, (*with* T. Abrishami, M. Pilipczuk, P. Rzazewski and P. Seymour), *Proc. SODA'21, 2021*
2. Finding large H -colorable subgraphs in hereditary graph classes, (*with* J. King, Mihael Pilipczuk, P. Rzazewski and S. Spirkl), *28th Annual European Symposium on Algorithms, 2020*
3. Quasi-polynomial time approximation schemes for the Maximum Weight Independent Set Problem in H -free graphs, (*with* Marcin Pilipczuk, Mihael Pilipczuk and Stephan Thomasse), *Proc. SODA'20, 2020*

4. 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*
5. 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*
6. Four-coloring P_6 -free graphs (*with* S. Spirkl and M. Zhong), *Proc. SODA'19, 2019*
7. 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.*
8. Obstructions to 3-coloring P_6 -free graphs (*with* J. Goedgebeur, O.Schautdt and M. Zhong), *Proc. SODA'16, 2016*

Papers to appear

1. New examples of minimal non-strongly-perfect graphs (*with* C. Dibek and P. Seymour), *to appear in Discrete Math*
2. Finding a shortest odd hole (*with* A. Scott and P. Seymour), *to appear in ACM Transactions on Algorithms*

Papers submitted for publication

1. Erdős-Hajnal for graphs with no 5-hole, (*with* Alex Scott, Paul Seymour and Sophie Spirkl), *submitted for publication*
2. On the Aharoni-Berger conjecture for general graphs, (*with* R. Aharoni, E. Berger and S. Zerbib), *submitted for publication*
3. A note on simplicial cliques, (*with* Alex Scott, Paul Seymour and Sophie Spirkl), *submitted for publication*
4. Induced subgraphs of bounded treewidth and the container method, (*with* T. Abrishami, M. Pilipczuk, P. Rzazewski and P. Seymour), *submitted for publication*
5. Finding large H -colorable subgraphs in hereditary graph classes, (*with* J. King, Mihal Pilipczuk, P. Rzazewski and S. Spirkl), *submitted for publication*

6. Even-hole-free graphs of bounded degree have bounded treewidth, (*with* T. Abrishami and K. Vuskovic), *submitted for publication*
7. Graphs with polynomially many minimal separators, (*with* Tara Abrishami, Cemil Dibek, Stephan Thomasse, Nicolas Trotignon and Kristina Vuskovic), *submitted for publication*
8. Holes with hats and Erdős-Hajnal, (*with* Paul Seymour), *submitted for publication*
9. Quasi-polynomial time approximation schemes for the Maximum Weight Independent Set Problem in H -free graphs, (*with* Marcin Pillipczuk, Mihal Pillipczuk and Stephan Thomasse), *journal version, submitted for publication*
10. Tournaments and The Strong Erdős-Hajnal property, (*with* E. Berger, K. Choromanski and S. Zerbib), *submitted for publication*
11. Complexity of C_k -coloring in hereditary classes of graphs, (*with* S. Huang, P. Rzazewski, S.Spirkl and M. Zhong), *journal version, submitted for publication*
12. Even-hole -free graphs still have bisimplicial vertices, (*with* Paul Seymour), *submitted for publication*
13. Square-free graphs with no induced fork (*with* S. Huang, T. Karthick and J. Kaufmann), *submitted for publication*
14. Avoidable vertices and edges in graphs, (*with* J. Beisegel, V. Gurvich, M. Milanic and M. Servatius), *submitted for publication*
15. Concatenating bipartite graphs. (*with* P. Hompe, A. Scott, P. Seymour and S. Spirkl) *submitted for publication*
16. Pure pairs II. Sparse graphs withput linear anticomplete pairs. (*with* A. Scott, P. Seymour and S.Spirkl), *submitted for publication*
17. Four-coloring P_6 -free graphs I. Extending an excellent precoloring. (*with* S. Spirkl and M. Zhong), *submitted for publication*
18. Four-coloring P_6 -free graphs II. Finding an excellent precoloring. (*with* S. Spirkl and M. Zhong), *submitted for publication*
19. Induced subgraphs of graphs with large chromatic number V. Chandaliers and strings, (*with* Alex Scott and Paul Seymour), *submitted for publication*

Manuscripts not yet submitted and papers in preparation

1. Walls, ceterpillars and treewidth (*with* Tara Abrishami, Cemil Dibek, Sepehr Hajebi, Pawel Rzazewski and Sophie Spirkl), *in preparation*
2. Maximum stable set in graphs of bounded degree (*with* Tara Abrishami, Cemil Dibek and Pawel Rzazewski), *in preparation*
3. Pure Pairs X. Excluding six-vertex tournaments, (*with* Alex Scott, Paul Seymour and Sophie Spirkl), *in preparation*
4. Submodular functions and prism-free perfect graphs, *with* Tara Abrishami, Cemil Dibek and Kristina Vuskovic, *in preparation*
5. A strengthening of Rodl's theorem, (*with* Alex Scott, Paul Seymour and Sophie Spirkl), *in preparation*
6. Maximum independent sets in (pyramid, even hole)-free graphs, (*with* Stephan Thomasse, Nicolas Trotignon and Kristina Vuskovic), *manuscript*
7. Small families under subdivision, (*with* M. Loebl and P. Seymour), *manuscript*
8. Optimal anti-thickenings of claw-free graphs (*with* Andrew King), *manuscript*
9. On the Erdős-Lovász Tihany Conjecture in claw-free graphs, (*with* Alexandra Fradkin and Matthieu Plumettaz), *manuscript*