

I also have an ORCID for whatever it's worth.

So good of you to send me your new book. I shall lose no time in reading it; not a single second.

Currently Under Review

- [1] Vida Dujmović, Cyril Gavoille, Gwenaël Joret, Piotr Micek, Pat Morin, and David R. Wood. Adjacency labelling of proper minor-closed graph classes. Submitted to *FOCS 2026* in April 2026. .
- [2] Hussein Houdrouge, Babak Miraftab, and Pat Morin. 2-dimensional unit vector flows. Submitted to *Electronic Journal of Combinatorics* in March 2026. .
- [3] Babak Miraftab, Pat Morin, and Yelena Yuditsky. Basis number and pathwidth. .
- [4] Quentin Claus, Jędrzej Hodor, Gwenaël Joret, and Pat Morin. Excluding an apex-forest or a fan as quickly as possible. Submitted to *SIAM Journal on Discrete Mathematics* in January 2026. .
- [5] Vida Dujmović, Pat Morin, Sergey Norin, and David R. Wood. 3-colouring planar graphs. Submitted to *Combinatorics, Probability & Computing* in July 2025. .

Books

- [1] Pat Morin. *Open Data Structures (in Pseudocode)*. Web, 2014. A freely-available open content textbook. .
- [2] Pat Morin. *Open Data Structures: An Introduction*. Athabasca University Press, Edmonton, 2013. Also freely available as *Open Data Structures (in Java)* at opendatastructures.org. .
- [3] Pat Morin. *Open Data Structures (in C++)*. Web, 2012. A freely-available open content textbook. .

Chapters in Books

- [1] Vida Dujmović and Pat Morin. Free sets in planar graphs: History and applications. In János Pach and Géza Tóth, editors, *Courses in Discrete and Computational Geometry*, Bolyai Society Mathematical Studies. Springer-Verlag, 2026. .
- [2] Pat Morin. Hash tables. In Dinesh Mehta and Sartaj K. Sahni, editors, *Handbook of Data Structures and Applications*, chapter 9. CRC Press, 2004. .

Papers Accepted in Refereed Journals

- [1] Vida Dujmović, Gwenaël Joret, Piotr Micek, and Pat Morin. Erdős-Pósa property of cycles that are far apart. Accepted in May 2026. .
- [2] Hussein Houdrouge, Babak Miraftab, and Pat Morin. Separation number and treewidth, revisited. *Discrete Mathematics*. Accepted, pending minor revisions, in March 2026. .
- [3] Vida Dujmović, Gwenaël Joret, Piotr Micek, Pat Morin, and David R. Wood. Planar graphs in blowups of fans. *Advances in Combinatorics*, 2026. Preliminary version appeared at *SODA2025*. .
- [4] Vida Dujmović, Robert Hickingbotham, Jędrzej Hodor, Gwenaël Joret, Hoang La, Piotr Micek, Pat Morin, Clément Rambaud, and David R. Wood. The grid-minor theorem revisited. *Combinatorica*, 45(62), 2025. Accepted in June 2025. Preliminary version appeared at *SoDA 2024*. .

- [5] John Iacono, Piotr Micek, Pat Morin, and Bruce Reed. Vertex ranking of degenerate graphs. *Electronic Journal of Combinatorics*. Accepted, pending minor revisions, in December 2024. .
- [6] Vida Dujmović, Pat Morin, David R. Wood, and David Worley. Grid minors and products. *Electronic Journal of Combinatorics*, 2025. .
- [7] Prosenjit Bose, Vida Dujmović, Hussein Houdrouge, Mehrnoosh Javarsineh, and Pat Morin. Linear versus centred chromatic numbers. *Journal of Graph Theory*. Accepted, pending minor revisions, in March 2024. .
- [8] Vida Dujmović, Gwenaël Joret, Piotr Micek, and Pat Morin. Tight bound for the Erdős-Pósa property of tree minors. *Combinatorics, Probability and Computing*, 34(2):321–325, 2025. .
- [9] Marc Distel, Vida Dujmović, David Eppstein, Robert Hickingbotham, Gwenaël Joret, Pat Morin, Michał Seweryn, and David R. Wood. Product structure extension of the Alon–Seymour–Thomas theorem. *SIAM Journal on Discrete Mathematics*, 38(3), 2024. .
- [10] Carla Binucci, Giuseppe Di Battista, Walter Didimo, Vida Dujmovic, Seok-Hee Hong, Michael Kaufmann, Giuseppe Liotta, Pat Morin, and Alessandra Tappini. Graphs drawn with some vertices per face: Density and relationships. *IEEE Access*, 12:68828–68846, 2024.
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- [12] Paz Carmi, Matthew J. Katz, and Pat Morin. Stabbing pairwise intersecting disks by four points. *Discrete & Computational Geometry*, 70:1751–1784, 2023. .
- [13] Vida Dujmović, Robert Hickingbotham, Gwenaël Joret, Piotr Micek, Pat Morin, and David R. Wood. The excluded tree minor theorem revisited. *Combinatorics, Probability and Computing*, 33(1):85–90, 2024. .
- [14] Louis Esperet, Gwenaël Joret, and Pat Morin. Sparse universal graphs for planarity. *Journal of the London Mathematical Society*, 108(4):1333–1357, 2023. .
- [15] Vida Dujmović, Pat Morin, and David R. Wood. Graph product structure for non-minor-closed classes. *Journal of Combinatorial Theory, Series B*, 162:34–67, 2023. .
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- [22] Vida Dujmović, David Eppstein, Robert Hickingbotham, Pat Morin, and David R. Wood. Stack-number is not bounded by queue-number. *Combinatorica*, 42:151–164, 2022. .
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- [2] Prosenjit Bose, Pat Morin, and Karthik Murali. Cops and robbers for graphs on surfaces with crossings. In *50th International Symposium on Mathematical Foundations of Computer Science (MFCS2025)*. Submitted to *European Journal of Combinatorics* in February 2026. .
- [3] Oscar Defrain, Louis Esperet, Aurélie Lagoutte, Pat Morin, and Jean-Florent Raymond. Local certification of geometric graph classes. In *49th International Symposium on Mathematical Foundations of Computer Science (MFCS2024)*, 2024. Submitted to *Computing in Geometry and Topology* in October 2024. .
- [4] Louigi Addario-Berry, Pat Morin, and Ralph Neininger. Patricia’s bad distributions. In Cécile Mailler and Sebastian Wild, editors, *35th International Conference on Probabilistic, Combinatorial and Asymptotic Methods for the Analysis of Algorithms, AofA 2024, June 17-21, 2024, University of Bath, UK*, volume 302 of *LIPICs*, pages 25:1–25:8. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2024. .
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- [7] Vida Dujmović, Louis Esperet, Pat Morin, and David R. Wood. Proof of the clustered Hadwiger conjecture. In *Proceedings of the 64th IEEE Symposium on the Foundations of Computer Science (FOCS 2023)*, 2024. Submitted to Journal of the European Mathematical Society in October 2023 and rejected in August 2024. Submitted to Journal of the London Mathematical Society in August 2024. .
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- [10] Paz Carmi, Vida Dujmović, and Pat Morin. Anagram-free chromatic number is not pathwidth-bounded. In 44th International Workshop on Graph-Theoretic Concepts in Computer Science (WG2018), 2018. .
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Other Contributions

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- [16] Hervé Brönnimann, Jyrki Katajainen, and Pat Morin. Putting your data structure on a diet. Technical Report CPH-STL-2007-1, Performance Engineering Laboratory, DIKU, 2007. .
- [17] Rossen Atanassov, Pat Morin, and Stefanie Wuhler. Removing outliers to minimize area and perimeter. In *Proceedings of the 18th Canadian Conference on Computational Geometry (CCCG 2006)*, 2006. .
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- [19] Prosenjit Bose, Pat Morin, Michiel Smid, and Stefanie Wuhler. Rotational clamshell casting in two dimensions. In *Proceedings of the 18th Canadian Conference on Computational Geometry (CCCG 2006)*, 2006. .
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- [23] Pat Morin. *Online Routing in Geometric Graphs*. PhD thesis, School of Computer Science, Carleton University, January 2001. .
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- [26] Diane Dubrule, Pat Morin, and Jörg-Rüdiger Sack. A parallel cartographic modelling system: Design, implementation and performance. In *GIS'97 Proceedings*, pages 16–20, 1997. .
- [27] Pat Morin. Secure non-interactive electronic cash. Technical Report TR-96-06, School of Computer Science, Carleton University, 1996. .

Edited Volumes and Journal Issues

- [1] Pat Morin and Subhash Suri, editors. *Algorithms and Data Structures - 18th International Symposium, WADS 2023, Montreal, QC, Canada, July 31 - August 2, 2023, Proceedings*, volume 14079 of *Lecture Notes in Computer Science*. Springer, 2023.
- [2] Pat Morin. Guest editor’s introduction. *Computational Geometry: Theory and Applications*, 47(2):295, 2014. Special issue of selected papers from CCCG 2008.
- [3] Prosenjit Bose and Pat Morin. Guest editors’ introduction. *Algorithmica*, 42(1):1–2, 2005. Special issue of selected papers from ISAAC 2002.
- [4] Prosenjit Bose and Pat Morin. Guest editors’ introduction. *Theory of Computing Systems*, 38:251, 2005. Special issue of selected papers from ISAAC 2002.
- [5] Prosenjit Bose and Pat Morin, editors. *Proceedings of the 14th Annual International Symposium on Algorithms and Computation (ISAAC 2002)*, volume 2815 of *LNCS*. Springer-Verlag, 2002.

Invited Talks

- [1] Planar graphs in blowups of fans. CanaDAM 2025 Minisymposium on Structural Graph Theory, May 2025.
- [2] Vertex-ranking of degenerate graphs. Probability and Combinatorics: Nineteenth Annual Workshop, March 2025.
- [3] Erdős-Pósa for pairwise distant cycles. 2025 Barbados Graph Theory Workshop, March 2025.
- [4] Erdős-Pósa for pairwise distant cycles. Oberwolfach Seminar on Graph Theory, January 2025.
- [5] Linear versus centered colouring. AlgoLUNCH seminar, May 2023.
- [6] Proof of the clustered Hadwiger conjecture. Jagiellonian TCS seminar, March 2023.
- [7] Linear colouring, centered colouring, treedepth, treewidth, and grids. Séminaire de Mathématiques Discrètes, March 2023.
- [8] Free sets in planar graphs. Jagiellonian TCS seminar, March 2022.
- [9] What is computer science? YSBC Software Technology Conference, May 2021.
- [10] Growing a spanning tree of a graph. IMPA Probability and Combinatorics Seminar, February 2017.
- [11] Turán-type theorems for triangles in convex point sets. Shonan-Village Meeting on Geometric Optimization, May 2016.
- [12] Turán-type theorems for triangles in convex point sets. Courant Institute Geometry Seminar, April 2016.
- [13] Encoding arguments. Probability, Combinatorics, and Geometry: Ninth Annual Workshop, April 2014.
- [14] Interference! BIRS: Models of Sparse Graphs and Network Algorithms, February 2011. .

- [15] On the expected maximum degree in Yao graphs. Dagstuhl Seminar on Geometric Networks, Metric Space Embeddings and Spatial Data Mining, November 2009.
- [16] Randomized algorithms I, II, and III. New Zealand Institute of Mathematics and its Applications. Programme in Algorithmics, December 2008. .
- [17] Distribution-sensitive point location. Sydney Theory Day, May 2008.
- [18] Algorithms for zonoids. East Coast Combinatorial Conference (ECCC 2007), April 2007.
- [19] Disctribution-sensitive point location in convex subdivisions. Algorithms Seminar, McGill University, December 2006.
- [20] An optimal algorithm for d -variate zonoid depth. Algorithms Seminar, Université Libre de Bruxelles, October 2006.
- [21] Recent results on data depth and outlier removal in 2d. Radcliffe Institute Seminar on Computational Aspects of Statistical Data Depth Analysis, Cambridge, MA, USA, July 2006.
- [22] Centerpoint theorems for wedges. Japan Workshop on Discrete and Computational Geometry, Kanezawa, Japan, May 2005.
- [23] Realizing partitions respecting full and partial order information. UPC Computational Geometry Seminar, May 2005.
- [24] Computing the center of area of a convex polygon. DIMACS Workshop on Data Depth: Robust Multivariate Analysis, Computational Geometry and Applications, May 2003.
- [25] Output-sensitive algorithms for computing nearest-neighbour decision boundaries. MITACS Workshop on Facility Location, Ottawa, Canada, May 2003.
- [26] Computing the center of area of a convex polygon. MITACS Workshop on Facility Location, Vancouver, Canada, June 2002.
- [27] Two recent results on flipping polygons. Special Session on Physical Knotting and Unknotting, AMS Spring Western Section Meeting, Las Vegas, Nevada, USA, April 2001.
- [28] Classifying adult content on the internet. School of Computer Science, McGill University, June 2001.
- [29] Online routing in geometric networks. SEMNET (SEMinar on NETworks), Department of Mathematics, Carleton University, November 2001.
- [30] Progressive TINs: Algorithms and applications. Max-Planck-Institut für Informatik, August 1997.
- [31] Course-grained parallel computing on heterogeneous systems. Oberseminar Blömer/Meyer auf der Heide: Theoretische Informatik 2. Universität-GH Paderborn, May 1997.
- [32] Performance evaluation with Parasol. Real-Time and Distributed Systems Seminar. Department of Systems and Computer Engineering, Carleton University, October 1996.