Curriculum Vitae August 6th, 2024

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Education

PhD Computer Science McGill University, Montreal, Quebec 2004 NSERC Doctoral Prize

MSc Computer Science McGill University, Montreal, Quebec

2000

Honors Bachelor of Engineering University of Zagreb, Croatia 1996

Awards and Honours

- 2023-2028: University Research Chair in Structural and Algorithmic Graph Theory.
- 2025: Selected as Research Member for the Extremal Combinatorics program at the Simons Laufer Mathematical Sciences Institute (SLMath).
- 2023: G.S. Glinski Award for Excellence in Research, Faculty of Engineering, University of Ottawa.
- 2018: Best paper award in 26th Symposium Graph Drawing and Network Visualization (GD 2018).
- 2014: The Early Researcher Award (ERA), Ministry of Research and Innovation, Ontario.
- 2013: Faculty Research Achievement Award, Carleton University (includes an award of \$15,000).
- 2005: NSERC¹ Doctoral Prize. Awarded annually for the best PhD thesis and research in Canada, 1 of 4 awards (includes a monetery award of \$10,000).
- 2004: D.W. Ambridge Prize for McGill's Outstanding PhD Graduate in Science and Engineering (includes a monetery award of \$1,000).
- 1996: Commendation for outstanding academic performance (awarded to one student in the department class of 110), Faculty of Electrical and Computer Engineering, University of Zagreb, Croatia.

Funding and Research Fellowships received

- 2024-2027: Australian Research Council (\$382,911.00 AUD for 3 years). Joint grant with David R. Wood. Operating.
- 2023-2028: University Research Chairs Grant (\$125,000 for 5 years, \$25,000/year). Principal Investigator. Operating.
- 2022-2027: NSERC Discovery Grant (\$370,000 for 5 years, \$74,000/year). Principal Investigator. Operating.
- Jan Feb 2023: Institut National Polytechnique de Grenoble Visiting Researcher Fellowship, France. (5,000 EUR for 2 months).
- Feb-April 2025: Simons Laufer Mathematical Sciences Institute (SLMath) funding for Research Membership. (9000 USD)
- Sept 2020 Jan 2021 The Gordon Preston Sabbatical Fellowship, Australia. (30,000 AUD).
- May 2020: FNRS², Visiting Researcher Fellowship, Belgium. (\$3,500 for 1 month).

¹Natural Sciences and Engineering Research Council of Canada

²Fonds de la Recherche Scientifique, Belgium

- 2016-2022: NSERC Discovery Grant (\$276,000 for 6 years, \$46,000/year). Principal Investigator. Operating.
- 2014-2019: The Early Researcher Award (ERA), Ministry of Research and Innovation, Ontario. (\$150,000 over 5 years).
- 2011-2016: NSERC Discovery Grant (\$170,000 for 5 years, \$34,000/year). Principal Investigator.
- 2011: Endeavour Research Fellowship, Australian Government (\$23,000 for 6 months).
- 2009-2010: Ministry of Research and Innovation Postdoctoral sFellowship, Ontario (\$50,000/year).
- 2006-2007: CRM³-ISM⁴ Postdoctoral Fellowship, (\$38,000/year).
- 2004-2006: NSERC Postdoctoral Fellowship (\$40,000/year for 2 years).
- 2004-2006: FQRNT⁵ Postdoctoral Fellowship (\$30,000/year for 2 years) declined.
- Sept, Oct 2005 and May 2010: FNRS⁶, Visiting Researcher Fellowship (\$7,500 for 3 months).
- Fall 2004: Consulat général de France à Québec, Visiting Researcher Fellowship (\$6,000 for 2 months).
- 2001-2003: FQRNT Doctoral Scholarship (\$20,000/year for 3 years).
- November 2000: ACM-SIAM Student Travel Award (\$500).
- 1997-1998: World University Service of Canada scholarship (\$12,000/year).

Academic Positions Held

University of Ottawa, School of Electrical Engineering & Computer Science, Ottawa, Ontario Full Professor $May\ 2023-Present$

University of Ottawa, School of Electrical Engineering & Computer Science, Ottawa, Ontario

Associate Professor

May 2018 - April 2023

Carleton University, School of Mathematics and Statistics & Department of Systems and Computer Engineering, Ottawa, Ontario Assistant Professor

September 2012 - August 2013

Carleton University, School of Computer Science, Ottawa, Ontario Research Associate and Adjunct Research Professor

October 2010 - August 2012

Carleton University, School of Computer Science, Ottawa, Ontario $Postdoctoral\ Fellow$

September 2007 - September 2010

McGill University, Department of Mathematics and Statistics, Montreal, Quebec CRM-ISM Postdoctoral Fellow July 2006 – August 2007

Carleton University, School of Computer Science, Ottawa, Ontario $NSERC\ Postdoctoral\ Fellow$

April 2004 - June 2006

 $^{^3{\}rm Centre}$ de Recherches Matématiques

⁴Institut des Sciences Mathématiques

 $^{^5\}mathrm{Le}$ Fonds Québécois de la Recherche sur la Nature et les Technologies, formerly know as FCAR

⁶Fonds de la Recherche Scientifique, Belgium

Scholarly Academic Activities

Grant Committee:

September 2021 – December 2021: Member, National Science Foundation (NSF) Review Combinatorics Panel

July 2017- June 2020: Member, NSERC Computer Science Evaluation Committee

Editorial Board:

Jan. 2020 – present: Associate Editor of SIAM Journal of Discrete Mathematics (SIDMA) June 2009 – Aug 2018: Associate Editor of Journal of Computational Geometry (JoCG)

Steering Committees:

Oct. 2023 - June 2028: Int. Workshop on Graph-Theoretic Concepts in Computer Science (WG)

Program Committees:

- 2025: 41st Symposium on Computational Geometry (SoCG)
- 2024: 35th Annual ACM-SIAM Symposium on Discrete Algorithms (SODA)
- 2024: 32nd International Symposium on Graph Drawing and Network Visualization (GD)
- 2024: The European Symposium on Algorithms (ESA).
- 2024: 4th (Spanish) The Discrete Mathematics Days (DMD 2024)
- 2023: 54th ACM Symposium on Theory of Computing (STOC)
- 2023: 49th International Workshop on Graph-Theoretic Concepts in Computer Science (WG)
- 2023: 24th International Symposium on Fundamentals in Computation Theory (FCT)
- 2022: 38th Symposium on Computational Geometry (SoCG)
- 2021: 32nd ACM-SIAM Symposium on Discrete Algorithms (SODA)
- 2021: 48th International Colloquium on Automata, Languages, and Programming (ICALP)
- 2021: 29th International Symposium on Graph Drawing and Network Visualization (GD)
- 2021: 46th International Symposium on Mathematical Foundations of Computer Science (MFCS)
- 2021: 32nd International Workshop on Combinatorial Algorithms (IWOCA)
- 2020: 32th Canadian Conference on Computational Geometry (CCCG)
- 2019: 7th Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM)
- 2018: 35th International Symposium on Theoretical Aspects of Computer Science (STACS)
- 2017: 25th International Symposium on Graph Drawing and Network Visualization (GD)
- 2017: 23rd International Computing and Combinatorics Conference (COCOON)
- 2016: 27th ACM-SIAM Symposium on Discrete Algorithms (SODA)
- 2016: 2nd Conference on Algorithms and Discrete Applied Mathematics (CALDAM)
- 2015: 23rd International Symposium on Graph Drawing and Network Visualization (GD)
- 2015: The Computational Geometry Week: Workshops (CG Week)
- 2015: 31st European Workshop on Computational Geometry (EuroCG)
- 2014: 11th Latin American Theoretical Informatics Symposium (LATIN)
- 2014: 24th Canadian Conference on Computational Geometry (CCCG)
- 2014: 30th European Workshop on Computational Geometry (EuroCG)
- 2013: 21st International Symposium on Graph Drawing (GD)
- 2013: 23rd Canadian Conference on Computational Geometry (CCCG)
- 2013: 19th Conference on Computing: the Australasian Theory Symposium (CATS)

- 2012: 27th Annual ACM Symposium on Computational Geometry (SoCG).
- 2011: 19th International Symposium on Graph Drawing (GD)
- 2011: 21st Canadian Conference on Computational Geometry (CCCG)
- 2008: 20th Canadian Conference on Computational Geometry (CCCG)
- 2007: 19th Canadian Conference on Computational Geometry (CCCG)
- 2006: 14th International Symposium on Graph Drawing (GD)

Event Organization:

- Canadian Discrete and Algorithmic Mathematics Conference (CanaDAM 2025), 20-23 May 2025.
- Simons Laufer Mathematical Sciences Institute (SLMath) workshop on Algebraic and Analytic Methods in Combinatorics, 17-21 March 2025, Berkeley, California.
- MFO (Oberwolfach) workshop on "Graph Theory", 5-10 Jan 2025, at the Oberwolfach Research Institute for Mathematics, Germany, (usually 50+ participants).
- 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th and 12th International Workshop on Geometry and Graphs, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2022, 2023, 2024, 2025 at Bellairs Research Institute of McGill University. (35+ participants)
- Dagstuhl Workshop on "Beyond-Planar Graphs: Models, Structures and Geometric Representations", 4-9 Feb, 2024 at Schloss Dagstuhl, Germany, (usually 40-50 participants).
- 2nd Adriatic Workshop on Graphs and Probability, Jun 17–24, 2023 Brac, Croatia. (10 participants)
- Institute 424 Workshop on Graphs and Probability, Monash University, Melbourne, Australia, 28 Nov - 2 Dec 2022. (10 participants)
- Adriatic Workshop on Graphs and Probability, Jun 5–10, 2022 Hvar, Croatia. (10 participants)
- Nov 2021: "Graph Product Structure Theory" workshop at Banff International Research Station for Mathematical Innovation and Discovery (BIRS). (40+ participants, 15 in-person)
- July 2021: 32nd International Workshop on Combinatorial Algorithms (IWOCA 2021)
- 15th Annual Workshop on Probability and Combinatorics, 29 March -5 April 2019, at McGill University's Bellairs Research Institute. (30+ participants)
- 29th Canadian Conference on Computational Geometry (CCCG), July 2017.
- Fields Workshop on Discrete and Computational Geometry, 26-28 July, 2017, Ottawa, Canada. (32 participants)
- Fields Institute's Ottawa-Carleton Discrete Mathematics Days, May 1-2, 2014.
- 9th International Workshop on Probability, Combinatorics and Geometry: April 4-11, 2014 at McGill University's Bellairs Research Institute. (30 participants).
- The American Mathematical Society (AMS), workshop on Discrete and Computational Geometry, June 10-16, 2012 at Snowbird, Utah, USA. The workshop, including the participation of 40 selected phd students and postdocs is fully funded by AMS. (44 participants)
- Fields Workshop on Discrete and Computational Geometry, August 13-17, 2012 at Carelton University, Ottawa, Canada. (35 participants)

Invited talks/lectures

- July 2024: Invited speaker at 9th European Congress of Mathematics.
- August 2023: 5-day lectures at the Discrete and Convex Geometry summer school, Erdős Center of the Alfréd Rényi Institute of Mathematics
- July 2022: Plenary speaker at The 11th International Colloquium on Graph Theory and combinatorics, ICGT 2022, Montpellier, France.
- July 2022: Invited speaker at Conference on Probability and Combinatorics (in celebration of Reed's 60'th birthday), Oxford, UK.
- June 2022: Invited speaker at STOC 2022 workshop on Constrained Graph Layouts, Rome, Italy.
- Aug 2021: Plenary speaker at 17th Algorithms and Data Structures Symposium, WADS 2021, Halifax, Nova Scotia, Canada.
- June 2021: Plenary speaker at The 47th of the International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2021, Warsaw, Poland.
- Dec 2021: Plenary speaker at 43rd Australasian Combinatorics Conference, ACC 2021, Melbourne, Australia.
- Aug 2019: Plenary speaker at 31st Canadian Conference on Computational Geometry, CCCG 2019.
- July 2019: Invited speaker at the 9th PhD Summer School in Discrete Mathematics, Rogla, Slovenia.
- May 2019 Invited speaker at One-Day Meeting in Combinatorics Mathematical Institute, University of Oxford, UK.
- May 2019: Invited mini-course at IMPA Instituto Nacional de Matemática Pura e Aplicada, Rio de Janeiro, Brazil.
- September, 2018: Invited mini-course at 2018 Fall School: Order & Geometry, Gutshof Sauen, Germany.
- May, 2018: Invited speakr at Intensive Research Program on Discrete, Combinatorial and Computational Geometry at CRM (Centre de Recerca Matemàtica), Barcelona, Spain.
- Feb, 2016: Invited PhD mini-course (6 lectures) at Roma Tre University, Rome, Italy.
- April, 2015: Invited speaker at AWM Research Symposium 2015, University of Maryland College Park, College Park, USA.
- Dec, 2013: Plenary speaker at 37th Australasian Conference on Combinatorial Mathematics and Combinatorial Computing, The University of Western Australia, Perth, Australia.
- May, 2012: Invited speaker at Graph Theory @ Georgia Tech: Conference Honoring the 50th Birthday of Robin Thomas, Georgia Tech, Atlanta.
- May, 2012: Invited speaker at The Ottawa Mathematics Conference, University of Ottawa.
- September 2007: Invited speaker at Discrete Mathematics Days of the Northeast, Middlebury, USA.

Publications (in reverse chronological order)

Articles Submitted

- 1. Vida Dujmović, Gwenaël Joret, Piotr Micek, and Pat Morin. "Tight bound for the Erdős-Pósa property of tree minors." Submitted to *Combinatorics, Probability & Computing* in March 2024.
- 2. Vida Dujmović, Pat Morin, David R. Wood, and David Worley. Grid minors and products. Submitted to *Electronic Journal of Combinatorics* in February 2024. [arxiv:2402.14181].

3. P. Bose, V. Dujmović, M. Javarsineh, P. Morin. "Asymptotically optimal vertex ranking of planar graphs." Submitted to *Journal of Combinatorial Theory: Series B*, (JCTB) in November 2020. Revisions requested in January 2022 and provided in August 2022.

Articles Accepted in Refereed Journals

- 1. V. Dujmović, G. Joret, P. Micek, P. Morin, and D. R. Wood. "Bounded-degree planar graphs do not have bounded-degree product structure". *Electronic Journal of Combinatorics*. Accepted, pending minor revisions, in April 2024.
- M. Distel, V. Dujmović, D. Eppstein, R. Hickingbotham, G. Joret, P. Morin, M. Seweryn, and D. R. Wood. "Product structure extension of the Alon-Seymour-Thomas theorem." SIAM Journal on Discrete Mathematics. Accepted, pending minor revisions, in March 2024.
- 3. P. Bose, V. Dujmović, H. Houdrouge, M. Javarsineh, and P. Morin. "Linear versus centred chromatic numbers". *Journal of Graph Theory*. Accepted, pending minor revisions, in March 2024.
- 4. V. Dujmović, R. Hickingbotham, G. Joret, P. Micek, P. Morin, and D. R. Wood. "The excluded tree minor theorem revisited.", *Combinatorics, Probability & Computing.* vol. 33(1): 85–90, 2024.
- 5. V. Dujmović, P. Morin, D. R. Wood, "Graph product structure for non-minor-closed classes." *Journal of Combinatorial Theory, Series B* (JCTB), vol. 162: 34-67, 2023
- 6. V. Dujmović, P. Morin. "Dual Circumference and Collinear Sets". Accepted to *Discrete & Computational Geometry* vol. 69(1): 26-50, 2023.
- P. Bose, P. Carmi, V. Dujmović, S. Mehrabi, F. Montecchiani, P. Morin, L. F. S. X. da Silveira, "Geodesic obstacle representation of graphs". Computational Geometry: Theory and Applications (CGTA), vol. 109: 101946, 2023.
- 8. V. Dujmović, D. Eppstein, R. Hickingbotham, P. Morin, D. R. Wood, "Stack-number is not bounded by queue-number." *Combinatorica*, vol. 42(2): 151–164, 2022.
- 9. V. Dujmović, L. Esperet, P. Morin, B. Walczak, D.R. Wood, "Clustered 3-Colouring Graphs of Bounded Degree." *Combinatorics Probability and Computing* (CPC), vol. 31(1), pp. 123–135, 2022.
- 10. V. Dujmović, L. Esperet, G. Joret, C. Gavoille, P. Micek, P. Morin. "Adjacency Labelling for Planar Graphs (and Beyond)." *Journal of the ACM*, (JACM), vol. 68(6), pp. 42:1–42:33, 2021
- 11. P. Bose, V. Dujmović, M. Javarsineh, P. Morin, D. R. Wood. "Separating layered treewidth and row treewidth." Accepted to *Discrete Mathematics and Theoretical Computer Science* in November 2021.
- 12. S. Bazarghani, P. Carmi, V. Dujmović, P. Morin. " $2 \times n$ grids have unbounded an agram-free chromatic number." Accepted to *Electronic Journal of Combinatorics* in October 2021.
- 13. V. Dujmović, P. Morin, Céline Yelle, "Two Results on Layered Pathwidth and Linear Layouts.", *J. Graph Algorithms Appl.*, vol. 25(1), pp. 43–57, 2021.
- 14. V. Dujmović, F. Frati, D. Goncalves, P. Morin, G. Rote. "Every collinear set in a planar graph is free." Discrete & Computational Geometry, vol. 65(4), pp. 999–1027, 2021.
- 15. J. Md. Alam, M. Bekos, V. Dujmović; M. Gronemann, M. Kaufmann, S. Pupyrev, "On Dispersable Book Embeddings", *Theoretical Computer Science*, (TCS), vol. 861, pp. 1–22, 2021
- 16. P. Bose, J-L. De Carufel, V. Dujmović and F. Paradis, "Local Routing in Spanners Based on WSPDs." *Journal of Computational Geometry* (JoCG), vol 12(1): 1–34, 2021.
- 17. H. Akitaya, E. Arkin, M. Damian, E. D. Demaine, V. Dujmović, R. Flatland, M. Korman, B. Palop, I. Parada, A. van Renssen and V. Sacristán "Universal Reconfiguration of Facet-Connected Modular Robots by Pivots: The O(1) Musketeers." *Algorithmica*, vol. 83(5), pp. 1316–1351, 2021.
- 18. V. Dujmović, G. Joret, P. Micek, P. Morin, T. Ueckerdt, D. R. Wood. "Planar graphs have bounded queue-number". *Journal of ACM*, (JACM), vol. 67(4), pp. 22:1–22:38, 2020.
- 19. V. Dujmović, D. Eppstein, G. Joret, P. Morin, D. R. Wood, "Minor-Closed Graph Classes with Bounded Layered Pathwidth." SIAM J. Discret. Math., (SIDMA), vol. 34(3), pp. 1693–1709, 2020.

- 20. V. Dujmović, L. Esperet, G. Joret, B. Walczak, D. R. Wood, "Planar graphs have bounded non-repetitive chromatic number." Advances in Combinatorics, 2020(5).
- 21. H. A. Akitaya, V. Dujmović, D. Eppstein, T. C. Hull, K. Jain, A. Lubiw, "Face flips in origami tessellations." *Journal of Computational Geometry* (JoCG), vol 11(1), pp. 397–417, 2020.
- 22. M. J. Bannister, W. E. Devanny, V. Dujmović, D. Eppstein, D. R. Wood. "Track Layouts, Layered Path Decompositions, and Leveled Planarity." *Algorithmica*, vol. 81(4), pp. 1561–1583, 2019.
- 23. B. Aronov, V. Dujmović, P. Morin, A. Ooms, L. F. S. X. da Silveira, "More Turán-Type Theorems for Triangles in Convex Point Sets." *Electronic Journal of Combinatorics* (E-JC). 26(1): P1.8, 2019.
- 24. E. Arseneva, P. Bose, P. Cano, A. D'Angelo, V. Dujmović, F. Frati, S. Langerman, A. Tappini, "Pole Dancing: 3D Morphs for Tree Drawings." *J. Graph Algorithms Appl.* 23(3): 579–602, 2019.
- 25. L. Devroye, V. Dujmović, A. Frieze, A. Mehrabian, P. Morin, and B. Reed, "Notes on growing a tree in a graph." *Random Structure and Algorithms* (RSA) 55(2): 290–312, 2019.
- 26. V. Dujmović, G. Joret, P. Morin, S. Norin and D. R. Wood. "Orthogonal tree decompositions of graphs." SIAM J. Discrete Math. (SIDMA), vol. 32(2), pp. 839–863, 2018.
- 27. G. Da Lozzo, V. Dujmovic, F. Frati, T. Mchedlidze, V. Roselli, "Drawing planar graphs with many collinear vertices". *Journal of Computational Geometry* (JoCG), vol. 9(1), pp. 94–130, 2018.
- 28. V. Dujmović and F. Frati, "Stack and Queue Layouts via Layered Separators." *Journal of Graph Algorithms and Applications* (JGAA), vol. 22(1), pp. 89–99, 2018.
- 29. V. Dujmović, and D. R. Wood, "Thickness and Antithickness of Graphs." *Journal of Computational Geometry* (JoCG), vol. 9(1) pp. 356—386, 2018.
- 30. V. Dujmović, P. Morin, and D. R. Wood "Layered separators in minor-closed families with applications". *Journal of Combinatorial Theory, Series B* (JCTB), vol. 127, pp. 111–147, 2017.
- 31. P. Bose, V. Dujmović, P. Morin, and L. Rioux-Maldague. "New Bounds for Facial Nonrepetitive Colouring". *Graphs and Combinatorics*, vol. 33(4), pp. 817–832, 2017.
- 32. V. Dujmović, D. Eppstein and D. R. Wood, "Structure of graphs with locally restricted crossings." SIAM J. Discrete Math. (SIDMA), vol. 31(2), pp. 805–824, 2017.
- 33. V. Dujmović, "The Utility of Untangling." *Journal of Graph Algorithms and Applications* (JGAA), vol. 21(1), pp. 121–134, 2017.
- 34. V. Dujmović, G. Joret, J. Kozik and D. R. Wood, "Nonrepetitive colouring via entropy compression" *Combinatorica*, vol. 36(6), pp. 661–686, 2016.
- 35. V. Dujmović, A. Sidiropoulos, and D. R. Wood, "3-Monotone Expanders." *Chicago J. Theoretical Computer Science*, 16:Article 1, 2016.
- 36. V. Dujmović, "Graph Layouts via Layered Separators." *Journal of Combinatorial Theory, Series B* (JCTB), vol. 110, pp. 79–89, 2015.
- 37. G. Aloupis, L. Barba, P. Carmi, V. Dujmović, F. Frati, and P. Morin, "Compatible connectivity-augmentation of planar disconnected graphs." *Discrete & Computational Geometry*, (DCG), vol. 54(2), pp. 459-480, 2015.
- 38. V. Dujmović, P. Morin, and M. Smid. "Average stretch factor: How low does it go?" Discrete & Computational Geometry, vol. 53(2), pp. 296–326, 2015.
- 39. V. Dujmović, and P. Morin, "On Obstacle Numbers." *Electronic Journal of Combinatorics*, 22(3):P3.1, 2015.
- J. Barát, V. Dujmović, G. Joret, M. Payne, L. Scharf, D. Schymura, P. Valtr and D. R. Wood, "Empty pentagons in point sets with collinearities." SIAM J. Discrete Math. (SIDMA) vol. 29(1), pp. 198—209, 2015.
- 41. P. Bose, V. Dujmović, N. Hoda, and P. Morin. "Visibility-monotonic polygon deflation." *Contributions to Discrete Mathematics*, vol. 10(1), 2015.

- 42. V. Dujmović, P. Morin, and A. Sheffer, "Crossings in grid drawings." *Electronic Journal of Combinatorics* 21(1): P1.41, 2014.
- 43. P. Bose, V. Dujmović, P. Morin, and M. Smid, "Robust Geometric Spanners", SIAM Journal on Computing vol. 42(4), pp. 1720–1736, 2013.
- 44. V. Dujmović, D. J. Harvey, G. Joret, B. Reed, and D. R. Wood, "A linear-time algorithm for finding a complete graph minor in a dense graph." SIAM J. Discrete Math. (SIDMA), 27(4): 1770–1774 (2013)
- 45. V. Dujmović, F. Frati, G. Joret, and D. R. Wood, "Nonrepetitive colourings of planar graphs with $O(\log n)$ colours." *Electronic J. Combinatorics*, vol. 20(1):P51, 2013.
- 46. V. Dujmović, and S. Langerman, "A Center Transversal Theorem for Hyperplanes and Applications to Graph Drawing". *Discrete and Computational Geometry*, vol. 49(1), pp 74–88, 2013. Invited to a special issue of 27th ACM Symposium on Computational Geometry, SoCG 2011.
- 47. G. Aloupis, P. Bose, V. Dujmović, C. Gray, S. Langerman, and B. Speckmann "Guarding Fat Polygons and Triangulating Guarded Polygons." *Computational Geometry: Theory and Applications* (CGTA), 47(2): 296–306, 2014.
- 48. P. Bose, K. Douieb, V. Dujmović, J. Howat, P. Morin, "Fast Local Searches and Updates in Bounded Universes". *Computational Geometry: Theory and Applications*, vol. 46(2), pp 181–189, 2013.
- 49. V. Dujmović, W. Evans, S. Lazard, W. Lenhart, G. Liotta, D. Rappaport and S. Wismat, "On Pointsets that Support Planar Graphs". *Computational Geometry: Theory and Applications*, vol. 46(1), pp. 29–50, 2013.
- 50. V. Dujmović, G. Joret, and D. R. Wood, "An Improved Bound for First-Fit on Posets Without Two Long Incomparable Chains." *SIAM Journal on Discrete Mathematics* (SIDMA), vol. 26(3), pp. 1068–1075, 2012.
- 51. G. Biau, L. Devroye, V. Dujmović and A. Krzyzak, "An Affine Invariant k-Nearest Neighbor Regression Estimate." *Journal of Multivariate Analysis*, vol. 112, pp. 24–34, 2012.
- P. Bose, V. Dujmovć, F. Hurtado, J. Iacono, S. Langerman, H. Meijer, V. Sacristán, M. Saumell, and D.R. Wood, "Proximity graphs: E, δ, Δ, χ, ω." International Journal of Computational Geometry and Applications, vol. 22(5), pp. 439–469, 2012,
- D. Charlton, E. D. Demaine, M. L. Demaine, V. Dujmović, P. Morin, and R. Uehara, "Ghost Chimneys". International Journal of Computational Geometry and Applications, vol. 22(3), pp. 207–214, 2012.
- 54. S. Collette, V. Dujmović, J. Iacono, S. Langerman, and P. Morin "Entropy, triangulation, and point location in planar subdivisions". *ACM Transactions on Algorithms*, vol. 8(3), article num. 29, 2012.
- 55. V. Dujmović, J. Howat, and P. Morin, "Biased Range Trees". *Algorithmica*, vol. 62(1-2), pp. 21-37, 2012.
- 56. P. Bose, K. Douieb, V. Dujmović, and J. Howat, "Layered Working-Set Trees", *Algorithmica*. vol. 63(1), pp. 476–489, 2012.
- 57. D. Chen, L. Devroye, V. Dujmović, and P. Morin, "Memoryless Routing in Convex Subdivisions: Random Walks Are Optimal". *Computational Geometry: Theory and Applications*, vol. 45(4), pp. 178-185, 2012.
- 58. B. Ballinger, N. Benbernou, P. Bose, M. Damian, E. D. Demaine, V. Dujmović, R. Flatland, F. Hurtado, J. Iacono, A. Lubiw, P. Morin, V. Sacristán, D. Dubrule, and R. Uehara. "Coverage with k-transmitters in the presence of obstacle". *Journal of Combinatorial Optimization*. 25(2): 208-233 (2013)
- 59. V. Dujmović, G. Fijavz, G. Joret, T. Sulanke and D. R. Wood, "On the maximum number of cliques in a graph embedded in a surface". *European Journal of Combinatorics*, vol. 32(8), pp. 1244–1252, 2011.

- 60. V. Dujmović, and D. R. Wood, "On the book thickness of k-trees", Discrete Maths. and Theoretical Computer Science, vol. 13.3, 2011.
- 61. V. Dujmović, J. Gudmundsson, P. Morin, and T. Wolle, "Notes on large angle crossing graphs", *Chicago Journal of Theoretical Computer Science*. Article 4, 2011. Special issue of selected papers from CATS2010.
- 62. P. Bose, O. Cheong, and V. Dujmović, "A note on the perimeter of fat objects". *Computational Geometry: Theory and Applications*, vol. 44(1), pp. 1–8, 2010.
- 63. Z. Abel, B. Ballinger, P. Bose, S. Collette, V. Dujmović, F. Hurtado, S. D. Kominers, S. Langerman, A. Pór, and D. R. Wood, "Every large point set contains many collinear points or an empty pentagon". *Graphs and Combinatorics*, vol. 27(1), pp. 47–60, 2011.
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Participation in Invitational Research Workshops

- October 2024: New Perspectives in Colouring and Structure workshop at Banff International Research Station for Mathematical Innovation and Discovery (BIRS), organized by Carla Groenland, Bojan Mohar, Alex Scott, Paul Seymour and Sophie Spirkl.
- March 2024: Workshop on Graph Minors, Bellairs Research Institute of McGill University, organized by Paul Seymour.

- Sept, 2022 and Sept 2023: Summer Workshop on Graph Drawing, Tuscany, Italy organized by Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati and Maurizio Patrignani.
- March 2022: Workshop on Graph Minors, Bellairs Research Institute of McGill University, organized by Paul Seymour.
- January, 2022: Graph Theory at meeting at Mathematisches Forschungsinstitut Oberwolfach, Germany organized by Jim Geelen, Daniel Kral, and Alex Scott.
- November, 2021: Graph Product Structure Theory workshop at Banff International Research Station for Mathematical Innovation and Discovery (BIRS), organized by myself, Sergey Norin, Pat Morin and David R. Wood.
- March, 2020: New Perspectives in Colouring and Structure workshop at Banff International Research Station for Mathematical Innovation and Discovery (BIRS), organized by Bojan Mohar, Alex Scott and Paul Seymour.
- Feb 2019: Dagstuhl Workshop on "Beyond-Planar Graphs: Combinatorics, Models and Algorithms", Germany, organized by Seok-Hee Hong, Michael Kaufmann, János Pach and Csaba D. Tóth
- Jan 2019: Graph Theory meeting at Mathematisches Forschungsinstitut Oberwolfach, Germany organized by Jim Geelen, Daniel Kral, and Alex Scott.
- 2012–2019: Workshop on Graph Minors, Bellairs Research Institute of McGill University, organized by Paul Seymour.
- Sep 2018: Workshop: Order & Geometry, Ciazen Palace, Poland, organized by Stefan Felsner Technische and Piotr Micek.
- Aug 2017: Geometric and Structural Graph Theory at Banff International Research Station for Mathematical Innovation and Discovery (BIRS), organized by Bojan Mohar, Janos Pach, and Paul Seymour.
- October, 2013: Geometric and topological graph theory workshop at Banff International Research Station for Mathematical Innovation and Discovery (BIRS), organized by Bojan Mohar, Janos Pach, Paul Seymour, Robin Thomas, Carsten Thomassen.
- February, 2012: Models of sparse graphs and network algorithms at Banff International Research Station for Mathematical Innovation and Discovery (BIRS), organized by Nicolas Broutin, Luc Devroye and Gabor Lugosi.
- September 2008 & 2010: Graph Minors Workshop at Banff International Research Station for Mathematical Innovation and Discovery (BIRS), organized by Ken-ichi Kawarabayashi, Bojan Mohar, Bruce Reed, and Paul Seymour.
- 2006–2019: Workshop on Probability and Combinatorics, Bellairs Research Institute of McGill University, organized by Luc Devroye.
- 2000–2011: Annual Winter Workshop on Computational Geometry, Bellairs Research Institute of McGill University, organized by Godfried Toussaint.
- June, 2009: International Workshop on Discrete and Computational Geometry, JAIST (Japan Advanced Institute of Science and Technology), Japan, organized by Tetsuo Asano.
- June, 2008: The 11th Korean Workshop on Computational Geometry, POSTECH, South Korea, organized by Hee-Kap Ahn, Otfried Cheong, Antoine Vigneron.
- February 2008: The 2nd Workshop on Graph Searching, Theory and Applications (GRASTA), Brazil, organized by Claudia Sales and Bruce Reed.
- July, 2005: Carleton-Eindhoven Workshop on Computational Geometry, organized by Prosenjit Bose and Mark de Berg.
- May, 2004: The 3rd McGill-INRIA Workshop on Computational Geometry in Computer Graphics, Ile d'Oléron, France, organized by Hazel Everett and Sylvain Lazard.

- 1999–2004: Annual workshops at the Bellairs Research Institute of McGill University, organized by Sue Whitesides.
- 2003–2004: 2nd and 3rd Cuban Workshop on Algorithms and Data Structures, Universidad de la Habana, Cuba, organized by Antonio Mesa and Godfried Toussaint.
- May, 2002: NSF/CBMS Regional Research Conference on Geometric Graph Theory, University of North Texas, organized by Farhad Shahrokhi.