Nicolas Trotignon **CV updated January 4, 2024**
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Born 26th of April 1971.
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1 Employment history

1998–1999
Teacher of mathematics, Lycée Charles de Gaulle, Rosny-sous-Bois, France

1999–2005
Teacher of mathematics, Université Pierre-Mendès-France
Grenoble 2, France

2005–2008
Assistant professor in computer science, Université Panthéon-Sorbonne, Paris 1, France

2008– 2011
Researcher at CNRS, LIAFA, Université Paris-Diderot, Paris 7, France

2011– 2015
Junior researcher (CR) at CNRS, LIP, École Normale Supérieure de Lyon

2015–present
Senior researcher (DR) at CNRS, LIP, École Normale Supérieure de Lyon

2 Education

1995
Degree in Statistics and Economy at ENSAE (National School of Statistics and Economic Administration).

1997
Agrégation de Mathématiques (French competitive exam for teachers in high schools and universities).

2001
Master in Operation Research and Combinatorics, Joseph Fourier University, Grenoble.
Magna Cum Laude. Master Thesis : *The compactness argument in Combinatorics*. Supervisor Sylvain Gravier.

2004
Doctoral Dissertation in Mathematics and Computer Science.
Perfect Graphs: Structure and Algorithms,
Joseph -Fourier University, Grenoble 1, Leibniz Laboratory, IMAG, Grenoble, France.
Defended the 28th of September 2004.
Committee : F. Maffray (advisor), G. Cornuéjols (referee), B. Reed (referee), M. Burlet, J. Fonlupt and J.-L. Fouquet.

2009
Habilitation thesis (HDR)
Structure of classes of graphs defined by forbidding induced subgraphs,
University Paris-Diderot, Paris 7, LIAFA,
Paris, France.
Defended the 15th of December 2009.
Committee: M. Chudnovsky (referee), M. Conforti (referee), J.-P. Delahaye, M. Habib (referee), F. Maffray, S. Thomassé (referee).

3 Administrative Duties

2003 – 2004
Member of the departemental committee, Leibniz laboratory.

2014 – 2015
Team leader for team MC2, LIP.

2015 – 2018
Head of the computer science department of ENS de Lyon.

2017 – 2022
Member of comité de pilotage des EPIT

2021 – 2023
Head of LIP

2024 – present
Deputy head of LIP

4 Student supervision

4.1 Postdoc supervision

• Raphael Machado, Université Paris 7. December 2010–January 2011.
Now researcher at National Institute of Metrology, Quality and Technology (Inmetro), Rio de Janeiro, Brésil

• Irena Penev, École Normale Supérieure de Lyon. 2013–2015.
Now Assistant professor at Charles University, Prague, Czech Republic

• Nick Brettell, École Normale Supérieure de Lyon. 2014–2015.
Now Lecturer at Victoria University of Wellington, New Zealand

4.2 PhD supervision

• Pierre Aboulker, Université Paris 7. *Excluding slightly more than a hole*, defended on June 24, 2013.
Now assistant professor at ENS Paris

• Théophile Trunck, École Normale Supérieure de Lyon. *Trigraphes de Berge apprivoisés*, defended on September 17, 2014.
Now engineer et Dataiku

• Khang Le, École Normale Supérieure de Lyon. *Detecting and Coloring some Graph Classes*, defended on June 8, 2018.

• Ni Luh Dewi Sintiari, École Normale Supérieure de Lyon. *Width Parameters on Even-Hole-Free Graphs*, defended on June 29, 2021.
Accessit of the "Charles Delorme" graph theory thesis prize 2022.

• Cléophée Robin, Université Grenoble Alpes, supervised jointly with Myriam Preissmann. *Hereditary classes of graphs: From structure to coloring*, defended on October 22, 2021.
Now postdoc at Caen

• Pegah Pournajafi, École Normale Supérieure de Lyon. *Chi-boundedness, geometric graph theory, and Burling graphs*, defended on July 7, 2023.

4.3 Undergraduate student supervision

• Master in Computer Science, Joseph Fourier University, Grenoble. *Study of self-complement graphs*, by Lætitia Boiron, 2004.

• Master in Computer Science, Joseph Fourier University, Grenoble. *Generating self-complement graphs*, by Sylvain Bauchau, 2005.

• Master in Computer Science, Joseph Fourier University, Grenoble. *Detecting induced subgraphs*, by Zhang Mei, 2005.

• Master in Operation Research, University Paris 1, Paris. *Searching graphs*, by Khaled Kadi, 2008.

• Master in Operation Research and Combinatorics, University Grenoble 1 Joseph Fourier, Grenoble. *Detecting induced trees*, by Liu Wei, 2009.

• Master Recherche Advanced Mathematics, École normale supérieure de Lyon. *Some simple cases of Scott's conjecture*, by Amine Abdelkader, 2009.

• Master de mathématiques et applications, OJME, University Paris 6 Pierre et Marie Curie, *Structure of wheel-free graphs*, by Pierre Aboulker, 2010.

• Théophile Trunck. Master d'informatique fondamentale, École Normale Supérieure de Lyon, 2011.

• Lan Anh Pham. Master d'informatique fondamentale, École Normale Supérieure de Lyon, 2015.

• Edin Husic. Master d'informatique fondamentale, École Normale Supérieure de Lyon, 2017.

• Ni Luh Dewi Sintiari, Master d'informatique fondamentale, École Normale Supérieure de Lyon, 2018.

• Pegah Pournajafi, Master d'informatique fondamentale, École Normale Supérieure de Lyon, 2018.

5 Science management

5.1 Grants

• PHC Pavle Savić grant, jointly awarded by EGIDE, an agency of the French Ministère des Affaires étrangères et européennes, and Serbian Ministry for Science and Technological Development, 2010.

• Member of Project 174033, supported by the Ministry of Science, Technology and Development, Republic of Serbia. Graph theory and mathematical programming with applications to chemistry and computer science. Leader: Slobodan Simić

• Member of ANR jeune chercheur Heredia, 2011–2014.

• Head of ANR Stint, 2014–2017.

• Local head of ANR DIGRAPH, 2020–2024 (head: Frédéric Havet).

• PHC Proteus grant, jointy with Martin Milanić. Beyond Sparsity: Graph Classes, Width Parameters, and Algorithms, 2022–2023.

5.2 Events organisation

• Organisation of the Discrete Mathematics Seminar of Leibniz Laboratory, Grenoble, 2003–2005.

• Organisation of the workshop on the "lonely runner" conjecture, Grenoble, may 2004.

• Organisation of the mini-symposium "graph theory and combinatorial optimization", Congrès de la SMAI, june 2007.

• Creation and organisation of the Seminar "MDOD", Université Panthéon-Sorbonne, 2007–2008.

• Organisation of the Seminar "Algorithmique et Combinatoire", LIAFA, Paris, 2008–2011.

• Organisation of "A one-day conference on structural graph theory", LIAFA, Paris, January 2011.

• Organisation of a Workshop on χ-bounded classes, LIP, ENS Lyon, March 2012.

• Organisation of "Rencontres Internationales sur les méthodes de dćomposition de graphes", CIRM, Marseille, 19–23 January 2015, co-organised with Stephan Kreutzer (University of Berlin) Christophe Paul (CNRS - Université Montpellier) and Paul Wollan (University of Rome).

• Organisation of the Graph@Lyon Seminar, Université de Lyon, 2015–2018. Co-organised with Aline Parreau.

• Co-chair of ICGT 2018, organized in Lyon, July 2018.

• Organizer of Seymour is Seventy, Lyon, June 2020 (postponed to June 2022 because of the covid crisis).

5.3 Short stays abroad

• Universidade Federal do Rio de Janeiro, Brasil, November 2008.
• University of Oxford, England, February 2010.
• Union University, Belgrad, Serbia, June 2010.
• Nihon University, Tokyo, Japan, July 2010.
• Union University, Belgrad, Serbia, February 2011.
• Université Libre de Bruxelles, Belgium, March 2011.
• Union University, Belgrad, Serbia, November 2011.
• Leeds University, Leeds, England, October 2012.
• Leeds University, Leeds, England, May 2016.

5.4 Outreaching

• 2012 –2014. Member of the committee of Maison des Mathématiques et de l'Informatique, Lyon.

• June 2013 and May 2014. Organifation "stage hippocampe" et l'ENS de Lyon : welcoming highschool students at the lab.

Outreaching talks

• Regards croisés, ateliers doctoraux transdisciplinaires, Université de Toulouse, March 2015. *Coloration de graphes.*

• Rallye Mathématique de l'académie de Lyon, May 2015. *Les nombres cycliques.*

• Séminaire de la détente mathématique, MMI, Lyon, February 2016. *Consonance, dissonance et distances.*

• Les rendez-vous d'Ésope : Plaisir des sciences, Rians, September 2019. *Consonance, dissonance et distances.*

• Fête de la science, ENS de Lyon, October 2021. *Consonance, dissonance et distances.*

• Sémin'art, Agend'art Lyon, December 2021. *La musique, la physique et les maths.*

• Fête de la science, ENS de Lyon, October 2022. *Consonance, dissonance et distances*, conjointement avec le Conversatoire National de Musique et de Danse de Lyon.

• Exposé de l'AFIS de Lyon, Lyon, November 2022. *Consonance, dissonance et distances.*

5.5 PhD committees

• Member of the committee of the thesis of Nicolas Dehry, defended in December 2008. *Multicoupes et sous-graphes induits : complexité et algorithmes.*

• Member of the committee of the thesis of Hélène Topart, defended in May 2011. *Étude d'une nouvelle classe de graphes : les hypotriangulés.*

• Member of the committee of the thesis of Marwane Bouznif, defended in July 2012. *Algorithmes génériques en temps constant pour la résolution de problèmes combinatoires dans la classe des rotagraphes et fasciagraphes. Applications aux codes identifiants, dominants-localisateurs et dominants-total-localisateurs.*

• Member of the committee of the thesis of Petru Valicov, defended in July 2012. *Problèmes de placement, de coloration et d'identification.*

• Member (referee) of the committee of the thesis of Antoine Mamcarz, defended in June 2014. *About graph decompositions of trigraphs and graph searches.*

• Member (referee) of the committee of the thesis of Ana Karolina Maia de Oliveira, defended in November 2014. *Subdivisions of digraphs.*

• Member of the committee of the thesis of Johann Benchetrit, defended in May 2015. *Propriétés géomeétriques du nombre chromatique : polyèdres, structure et algorithmes.*

• Member of the committee of the thesis of Jean-Florent Raymond, defended in November 2016. *Structural and algorithmic aspects of partial orderings of graphs.*

• Member (referee) of the committee of the thesis of Andrea Munaro, defended in December 2016. *Sur quelques invariants classiques et nouveaux des hypergraphes.*

• Member of the committee of the thesis of Lucas Pastor, defended in November 2017. *Coloration, ensemble indépendant et structure de graphe.*

• Member (referee) of the committee of the habilitation of Jean-Sébastien Sereni, defended in February 2018. *Sur des aspects algébriques de la coloration de graphes : coloration fractionnaire et nombre de colorations.*

• Member (referee) of the committee of the thesis of Alexis Cornet, defended in December 2018. *Algorithmes et résultats de complexité pour des problèmes de graphes avec contraintes additionnelles.*

• Member (referee) of the committee of the thesis of Benjamin Bergougnoux, defended in February 2019. *Matrix Decompositions and Algorithmic Applications to (Hyper)Graphs.*

• Member of the committee of the thesis of Lucas Isenmann, defended in December 2019. *Des graphes planaires vers des plus hautes dimensions.*
• Member (referee) of the committee of the thesis of Samuel Mohr, defended in August 2020. *Rooted structures in graphs.*
• Member (referee) of the committee of the habilitation of Vincent Limouzy, defended in January 2021. *From graph classes to enumeration of minimal dominating sets.*
• Member of the committee of the thesis of Paul Ouvrard, defended in March 2021. *Problèmes de reconfiguration dans les graphes.*
• Member of the committee of the thesis of Caroline Brosse, defended in September 2023. *Efficient enumeration algorithms for minimal graph completions and deletions.*
• Member of the committee of the habilitation of Binh-Min Bui-Xuan, defended in November 2023. *Temporality, geometry, and efficient algorithms of graphs.*
• Member (referee) of the committee of the thesis of Hélène Langlois, defended in December 2023. *Kernels and quasi-kernels in directed graphs.*

5.6 Miscellaneous

• Referee for several journals including *Journal of Combinatorial Theory Series B*, *Journal of Graph Theory*, *Discrete Mathematics*, *Discrete Applied Mathematics*, *Applicable Analysis and Discrete Mathematics.*

• 2014 – 2016. Member of the committee for prix de thèse "Gilles Kahn" de la SIF.

6 Teaching

1992 – 1998

Tutorial classes in preparatory classes for french "Grandes Écoles" (Lycées Charlemagne, Lavoisier and Chaptal, Paris) : Mathematics, Maple and programming in Pascal.

1995 – 1998

Turtorial classes at ENSAE: Unix System, Linear Algebra, project follow up in C Language.

1998 – 1999

High School teacher in Mathematics, Charles-de-Gaulle High School, Rosny-sous-Bois, France.

1999 – 2004

Full time teaching position as Professeur agrégé at University Pierre Mendès France, Grenoble 2, France. Various courses (globally more than 1,000 hours) including:

• Mathematics: Linear Algebra, Arithmetics, Boolean Calculus.
• Statistics: Probability, Statistical Tests, Analysis of Variance.
• Computer Science : Decidability, Turing Machines, Automatas, Algorithms, Programming in Java and Pascal.

2005 – 2008

Assistant Professor at University Paris 1, Panthéon-Sorbonne, Paris, France. Various courses:

- Mathematics: graph theory, combinatorial optimisation, linear programming, optimisation on convex sets. Linear algebra (teaching in english).
- Computer Science: programming in C, programming in C++ for finance (teaching in english).

2008 – 2011

Course "graphes et optimisation combinatoire", master second year, at University Paris 1, Panthéon-Sorbonne, Paris, France (until 2010).

Course "algorithmes avancés", master second year MPRI, University Paris 7, Paris Diderot, France (until 2011).

Course for PhD students in Science about outreaching toward highschool students, Université de Lyon, 2012–2014.

2013 – 2015

Course "Graphs and polynomials", master second year Master d'Informatique Fondamentale, jointly with Pascal Koiran and Stéphan Thomassé, ENS de Lyon.

2016 – 2018

Course "Graph decompositions: From Tree-Width to Perfect Graphs", second year Master d'Informatique Fondamentale, jointly with Stéphan Thomassé, ENS de Lyon.

2018 – 2020

Course "Principles of fundamental computer science", second year Master of physics, complex systems, ENS de Lyon.

7 Publications

Publications on DBLP

https://dblp.org/pers/hd/t/Trotignon:Nicolas

Personnal page

http://perso.ens-lyon.fr/nicolas.trotignon/articles.html

Articles published in journals

[1] Sylvain Gravier, Frédéric Maffray, Jérôme Renault and Nicolas Trotignon. Ramsey-type results on singletons, co-singletons and monotone sequences in large collections of sets. *European Journal of Combinatorics*, 25(5):719–734, 2004.

DOI:10.1016/j.ejc.2003.10.004 – arXiv:1308.5849

[2] Frédéric Maffray and Nicolas Trotignon. Algorithms for perfectly contractile graphs. *SIAM Journal on Discrete Mathematics*, 19(3):553–574, 2005.

DOI:10.1137/S0895480104442522 – arXiv:1309.0435

[3] Frédéric Maffray and Nicolas Trotignon. A class of perfectly contractile graphs. *Journal of Combinatorial Theory, Series B*, 96(1):1–19, 2006.
DOI:1309.0438 − arXiv:1309.0438

[4] Michel Burlet, Frédéric Maffray and Nicolas Trotignon. Odd pairs of cliques. In Adrian Bondy, Jean Fonlupt, Jean-Luc Fouquet, Jean-Claude Fournier and Jorge L. Ramírez Alfonsín, editors, *Graph Theory in Paris, Proceedings of a Conference in Memory of Claude Berge*, pages 85–95. Birkhäuser, 2007.
DOI:10.1007/978-3-7643-7400-6_8 − arXiv:1309.0449

[5] Nicolas Trotignon. Decomposing Berge graphs and detecting balanced skew partitions. *Journal of Combinatorial Theory, Series B*, 98(1):173–225, 2008.
DOI:10.1016/j.jctb.2007.07.004 − arXiv:1309.0680

[6] Frédéric Maffray, Nicolas Trotignon and Kristina Vušković. Algorithms for square-$3PC(\cdot,\cdot)$-free Berge graphs. *SIAM Journal on Discrete Mathematics*, 22(1):51–71, 2008.
DOI: 10.1137/050628520 − arXiv:1309.0694

[7] Benjamin Lévêque, Frédéric Maffray, Bruce Reed, and Nicolas Trotignon. Coloring Artemis graphs. *Theoretical Computer Science*, 410:2234–2240, 2009.
DOI: 10.1016/j.tcs.2009.02.012 − arXiv:cs/0504082

[8] Benjamin Lévêque, David Lin, Frédéric Maffray and Nicolas Trotignon. Detecting induced subgraphs. *Discrete Applied Mathematics*, 157:3540–3551, 2009.
DOI: 10.1016/j.dam.2009.02.015 − arXiv:1309.0971

[9] Nicolas Derhy, Christophe Picouleau and Nicolas Trotignon. The four-in-a-tree problem for triangle-free graphs. *Graphs and Combinatorics*, 25:489–502, 2009.
DOI:10.1007/s00373-009-0867-3 − arXiv:1309.0978

[10] Nicolas Trotignon and Kristina Vušković. A structure theorem for graphs with no cycle with a unique chord and its consequences. *Journal of Graph Theory*, 63(1):31–67, 2010.
DOI:10.1002/jgt.20405 − arXiv:1309.0979

[11] Wei Liu and Nicolas Trotignon. The k-in-a-tree problem for graphs of girth at least k. *Discrete Applied Mathematics*, 158:1644–1649, 2010.
DOI: 10.1016/j.dam.2010.06.005 − arXiv:1309.1279

[12] Nicolas Trotignon and Kristina Vušković. *On Roussel–Rubio-type lemmas and their consequences. Discrete Mathematics*, 311(8–9):684–687, 2011.
DOI: 10.1016/j.disc.2011.01.013 − arXiv:1309.1284

[13] Maurice Pouzet, Hamza Si Kaddour and Nicolas Trotignon. Claw-freeness, 3-homogeneous subsets of a graph and a reconstruction problem. *Contributions to Discrete Mathematics*, 6(1):92–103, 2011.
DOI:10.11575/cdm.v6i1 − arXiv:1309.1835

[14] Nicolas Trotignon and Kristina Vušković. Combinatorial optimization with 2-joins. *Journal of Combinatorial Theory, Series B*, 102:153–185, 2012.
DOI: 10.1016/j.jctb.2011.06.002 – arXiv:1309.1547

[15] Benjamin Lévêque, Frédéric Maffray and Nicolas Trotignon. On graphs with no induced subdivision of K_4. *Journal of Combinatorial Theory, Series B*, 102:924–947, 2012.
DOI:10.1016/j.jctb.2012.04.005 – arXiv:1309.1926

[16] Jørgen Bang-Jensen, Frédéric Havet and Nicolas Trotignon. Finding an induced subdivision of a digraph. *Theoretical Computer Science*, 443:10–24, 2012.
DOI:10.1016/j.tcs.2012.03.017 – arXiv:1309.1553

[17] Maria Chudnovsky, Irena Penev, Alex Scott and Nicolas Trotignon. Excluding induced subdivisions of the bull and related graphs. *Journal of Graph Theory*, 71:49–68, 2012.
DOI:10.1002/jgt.20631 – arXiv:1309.1312

[18] András Gyárfás, András Sebő and Nicolas Trotignon. The chromatic gap and its extremes. *Journal of Combinatorial Theory, Series B*, 102:1155–1178, 2012.
DOI:10.1016/j.jctb.2012.06.001 – arXiv:1108.3444

[19] Pierre Aboulker, Marko Radovanović, Nicolas Trotignon and Kristina Vušković. Graphs that do not contain a cycle with a node that has at least two neighbors on it. *SIAM Journal on Discrete Mathematics*, 26(4):1510–1531, 2012.
DOI:10.1137/11084933X – arXiv:1309.1841

[20] Pierre Charbit, Michel Habib, Nicolas Trotignon and Kristina Vušković. Detecting 2-joins faster. *Journal of Discrete Algorithms*, 17:60–66, 2012.
DOI:10.1016/j.jda.2012.11.003 – arXiv:1107.3977

[21] Raphael C.S. Machado, Celina M.H. de Figueiredo and Nicolas Trotignon. Edge-colouring and total-colouring chordless graphs, *Discrete Mathematics*, 313:1547–1552, 2013.
DOI:10.1016/j.disc.2013.03.020 – arXiv:1309.1842

[22] András Gyárfás, Zhentao Li, Raphael Machado, András Sebő, Stéphan Thomassé and Nicolas Trotignon. Complements of nearly perfect graphs. *Journal of Combinatorics*, 4(3):299–310, 2013.
DOI:10.4310/JOC.2013.v4.n3.a2 – arXiv:1304.2862

[23] Maria Chudnovsky, Irena Penev, Alex Scott and Nicolas Trotignon. Substitutions and χ-boundedness. *Journal of Combinatorial Theory, Series B*, 103(5):567–586, 2013.
DOI:10.1016/j.jctb.2013.02.004 – arXiv:1302.1145

[24] Maria Chudnovsky, Paul Seymour and Nicolas Trotignon. Detecting an induced net subdivision. *Journal of Combinatorial Theory, Series B*, 103(5):630–641, 2013.
DOI:10.1016/j.jctb.2013.07.005 – arXiv:1309.1960

[25] Pierre Aboulker, Marko Radovanović, Nicolas Trotignon, Théophile Trunck and Kristina Vušković. Linear balanceable and subcubic balanceable graphs. *Journal of Graph Theory*, 75(2):150–166, 2014.
DOI:10.1002/jgt.21728 – arXiv:1302.1145

[26] Raphael C.S. Machado, Celina M.H. de Figueiredo and Nicolas Trotignon. Complexity of colouring problems restricted to unichord-free and {square,unichord}-free graphs. *Discrete Applied Mathematics*, 164(1):191–199, 2014.
DOI:10.1016/j.dam.2012.02.016 – arXiv:1309.2749

[27] Émilie Diot, Sébastien Tavenas and Nicolas Trotignon, Detecting wheels. *Applicable Analysis and Discrete Mathematics*, 8:111–122, 2014.
DOI:10.2298/AADM131128023D – arXiv:1308.6433

[28] Pierre Aboulker, Pierre Charbit, Nicolas Trotignon and Kristina Vušković, Vertex elimination orderings for hereditary graph classes. *Discrete Mathematics* 338:825–834, 2015.
DOI:10.1016/j.disc.2014.12.014 – arXiv:1205.2535

[29] Pierre Aboulker, Maria Chudnovsky, Paul Seymour and Nicolas Trotignon, Wheel-free planar graphs. *European Journal of Combinatorics* 49:57–67, 2015.
DOI:10.1016/j.ejc.2015.02.027 – arXiv:13097120

[30] Maria Chudnovsky, Nicolas Trotignon, Théophile Trunck and Kristina Vušković, Coloring perfect graphs with no balanced skew-partitions. *Journal of Combinatorial Theory, Series B*, 115:26–65, 2015.
DOI:10.1016/j.jctb.2015.04.007 – arXiv:1308.6444

[31] Pierre Charbit, Irena Penev, Stéphan Thomassé and Nicolas Trotignon. Perfect graphs of arbitrarily large clique-chromatic number. *Journal of Combinatorial Theory, Series B*, 116:456–464, 2016.
DOI:10.1016/j.jctb.2015.09.008 – arXiv:1506.08628

[32] Irena Penev, Stéphan Thomassé and Nicolas Trotignon. Isolating highly connected induced subgraphs. *SIAM Journal on Discrete Mathematics*, 30:592–619, 2016.
DOI:10.1137/140981939 – arXiv:1406.1671

[33] Stéphan Thomassé, Nicolas Trotignon and Kristina Vušković. A Polynomial Turing-kernel for weighted independent set in bull-free graphs. *Algorithmica*, 77:619–641, 2017.
DOI:10.1007/s00453-015-0083-x – arXiv:1310.6205

[34] Nicolas Trotignon, and Kristina Vušković. On triangle-free graphs that do not contain a subdivision of the complete graph on four vertices as an induced subgraph. *Journal of Graph Theory*, 84(3):233–248, 2017.
DOI:10.1002/jgt.22023 – arXiv:1407.6531

[35] Martin Milanič and Nicolas Trotignon. Equistarable graphs and counterexamples to three conjectures on equistable graphs. *Journal of Graph Theory*, 84(3):536–551, 2017.
DOI:10.1002/jgt.22040 – arXiv:1407.1670

[36] Pierre Aboulker, Nick Brettell, Frédéric Havet, Daniel Marx and Nicolas Trotignon. Colouring graphs with constraints on connectivity. *Journal of Graph Theory*, 85(4):814–838, 2017.
DOI:10.1002/jgt.22109 – arXiv:1505.01616

[37] Isolde Adler, Ngoc Khang Le, Haiko Müller, Marko Radovanović, Nicolas Trotignon and Kristina Vušković. On rank-width of even-hole-free graphs, *Discrete Mathematics & Theoretical Computer Science*, 19(1), 2017.
DOI:10.23638/DMTCS-19-1-24 – arXiv:1611.09907

[38] Martin Milanić, Irena Penev, and Nicolas Trotignon. Stable sets in {ISK4, wheel}-free graphs. *Algorithmica*, 80(2):415–447, 2018.
DOI:10.1007/s00453-016-0255-3 – arXiv:1602.02916

[39] Lan Anh Pham and Nicolas Trotignon. χ-bounds, operations and chords, *Journal of Graph Theory* 88(2):312–336, 2018.
DOI:10.1002/jgt.22214 – arXiv:1608.07413

[40] Maria Chudnovsky, Chun-Hung Liu Liu, Oliver Schaudt, Sophie Spirkl, Nicolas Trotignon and Kristina Vušković. Triangle-free graphs that do not contain an induced subdivision of K_4 are 3-colorable, *Journal of Graph Theory*, 92(2):67–95, 2019.
DOI:10.1002/jgt.22441 – arXiv:1704.08104

[41] Maria Chudnovsky, Irene Lo, Frédéric Maffray, Nicolas Trotignon and Kristina Vušković. Coloring Square-free Berge Graphs. *Journal of Combinatorial Theory, Series B*, 135:96–128, 2019.
DOI:10.1016/j.jctb.2018.07.010 – arXiv:1509.09195

[42] Émilie Diot, Marko Radovanović, Nicolas Trotignon and Kristina Vušković. The (theta, wheel)-free graphs. Part I: only-prism and only-pyramid graphs. *Journal of Combinatorial Theory, Series B*, 143:123–147, 2020.
DOI:10.1016/j.jctb.2017.12.004 – arXiv:1504.01862

[43] Marko Radovanović, Nicolas Trotignon and Kristina Vušković. The (theta, wheel)-free graphs. Part II: structure theorem. *Journal of Combinatorial Theory, Series B*, 143:148–184, 2020.
DOI:10.1016/j.jctb.2019.07.004 – arXiv:1703.08675

[44] Marko Radovanović, Nicolas Trotignon and Kristina Vušković. The (theta, wheel)-free graphs. Part III: cliques, stable sets and coloring. *Journal of Combinatorial Theory, Series B*, 143:185–218, 2020.
DOI:10.1016/j.jctb.2019.07.003 – arXiv:1707.04205

[45] Marko Radovanović, Nicolas Trotignon and Kristina Vušković. The (theta, wheel)-free graphs. Part IV: induced paths and cycles. *Journal of Combinatorial Theory, Series B*, 146:495–531, 2021.
DOI:10.1016/j.jctb.2020.06.002 – arXiv:1912.00516

[46] Myriam Preissmann, Cléophée Robin and Nicolas Trotignon. On the complexity of colouring antiprismatic graphs. *Algorithmica*, 83(2):589–612, 2021.
DOI:10.1007/s00453-020-00767-7 – arXiv:1910.11001

[47] Ni Luh Dewi Sintiari and Nicolas Trotignon. (Theta, triangle)-free and (even hole, K_4)-free graphs. Part 1: layered wheels. *Journal of Graph Theory*, 97(4):475–509, 2021.
DOI:10.1002/jgt.22666 – arXiv:1906.10998

[48] Marcin Pilipczuk, Ni Luh Dewi Sintiari, Stéphan Thomassé and Nicolas Trotignon. (Theta, triangle)-free and (even hole, K_4)-free graphs. Part 2: bounds on treewidth. *Journal of Graph Theory*, 97(4):624–641–509, 2021.
DOI:10.1002/jgt.22675 – arXiv:2001.01607

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DOI:10.1016/j.disc.2023.113699 – arXiv:2007.11513

Articles to appear in journals

• Linda Cook, Jake Horsfield, Myriam Preissmann, Cléophée Robin, Paul Seymour, Ni-Luh-Dewi Sintiari, Nicolas Trotignon and Kristina Vušković. *Graphs with all holes the same length*, 2021. To appear in *Journal of Combinatorial Theory, Series B*.
arXiv:2110.09970

Manuscripts (to be submitted)

• Édouard Bonnet, Romain Bourneuf, Julien Duron, Colin Geniet, Stéphan Thomassé and Nicolas Trotignon. *A tamed family of triangle-free graphs with unbounded chromatic number*, 2023.
arXiv:2304.04296

Manuscripts (not to be submitted)

• Nicolas Trotignon. *On the structure of self-complementary graphs*, 2004.
arXiv:1308.6139

• Pierre Aboulker, Frédéric Havet and Nicolas Trotignon. *On wheel-free graphs*, 2011.
arXiv:1309.2113

• Nicolas Trotignon. *Perfect graphs: a survey*, 2013.
arXiv:1301.5149

• Martin Milanić, Irena Penev, and Nicolas Trotignon. *A decomposition theorem for ISK4,wheel-free trigraphs*, 2016.
arXiv:1602.02406

• Ngoc Khang Le and Nicolas Trotignon. *Connected greedy colouring in claw-free graphs*, 2018.
arXiv:1805.01953

• Louis Esperet and Nicolas Trotignon. *Coloring graphs with no induced subdivisions of* K_4^+, 2019.
arXiv:1901.04170

• Maria Chudnovsky, Stéphan Thomassé, Nicolas Trotignon and Kristina Vušković. *Maximum independent sets in (pyramid, even hole)-free graphs*, 2019.
arXiv:1912.11246

• Jake Horsfield, Myriam Preissmann, Cléophée Robin, Ni Luh Dewi Sintiari, Nicolas Trotignon and Kristina Vušković. *When all holes have the same length*, 2022.
arXiv:2203.11571

Book's chapters

• Nicolas Trotignon, LexBFS, Structure, and Algorithms, in *Encyclopedia of Algorithms*, edited by MY. Kao, Springer, 2015.
DOI:10.1007/978-3-642-27848-8_687-1

• Nicolas Trotignon, Perfect graphs, in *Topics in Chromatic Graph Theory*, edited by Lowell W. Beineke and Robin J. Wilson, Cambridge University Press, 2015.
DOI:10.1017/CBO9781139519793

Dissertations

• Nicolas Trotignon. *Pascal, Fermat et la géométrie du hasard.* IUFM de Créteil, 1999. Supervisor Évelyne Barbin.
arXiv:1309.2824

• Nicolas Trotignon. *Graphes parfaits : structure et algorithmes.* PhD thesis, Université Joseph Fourier — Grenoble I, 2004. Supervisor Frédéric Maffray.
arXiv:1309.0119

• Nicolas Trotignon. *Structure of classes of graphs defined by forbidding induced subgraphs.* Habilitation thesis, Université Paris Diderot — Paris 7, 2009.
arXiv:1308.6678

• Nicolas Trotignon. *Sur le théorème des trois distances et la construction des gammes.* Mémoire de formation musicale, École Nationale de Musique de Villeurbanne, 2015.
arXiv:1505.05380

Extended abstracts in proceedings of conferences

• Raphael Machado, Celina M.H. de Figueiredo and Nicolas Trotignon. Chromatic Index of Chordless Graphs. In *9th Cologne-Twente Workshop on Graphs and Combinatorial Optimization, Cologne, Germany, May 25-27, 2010. Extended Abstracts*, 2010.

• Stéphan Thomassé, Nicolas Trotignon and Kristina Vušković. A Polynomial Turing-Kernel for Weighted Independent Set in Bull-Free Graphs. In *Graph-Theoretic Concepts in Computer Science - 40th International Workshop, WG 2014, Nouan-le-Fuzelier, France, June 25–27*, 2014

• Edin Husić, Stéphan Thomassé and Nicolas Trotignon. *The independent set problem is FPT for even-hole-free graphs*, IPEC 2019:21:1-21:12
arXiv:1907.01083

8 Talks

Plenary talks

• Journées Graphes Algorithmes, Clermont-Ferrand, France, November 2012. *Théorèmes de décomposition et dégénérescence.*

• The Combinatorial Optimization Workshop, Aussois, France, January 2016, organised by K. Aardal, M. Conforti and F. Margot. *Recent progress on coloring perfect graphs (in a combinatorial way).*

• Workshop Franco-brésilien de Graphes et Optimisation Combinatoire, Redonda, Ceará, Brasil, March 2016, organised by C. Linhares Sales and F. Havet. *Recent progress on coloring perfect graphs.*

• 8th Czech-Slovak International Symposium on Graph Theory, Combinatorics, Algorithms and Applications, Prag, Czech Republic, July 2022, organised by M. Loebl and J. Kratochvíl. *From even-hole-free graphs to treewidth.*

• 49th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2023, Fribourg, Switzerland, June 2023, organised by Bernard Ries, Daniel Paulusma, Stephanie Fasel and Felicia Lucke. *Triangle-free graphs of large chromatic number.*

Invited talks

• Workshop on Graph Theory, Mathematisches Forshunginstitut, Oberwolfach, Germany, March 2007, organised by R. Diestel, A. Schrijver and P. Seymour. *Decomposing Berge graphs and detecting balanced skew partitions*

• Session on Structural Graph Theory, Spring Southeast Sectional Meeting of the AMS, Baton Rouge, USA, March 2008. Organised by M. Chudnovsky. *On graphs that do not contain a cycle with a unique chord.*

• JSPOC5, honoring Jack Edmonds' 75th bithday, Paris, France, April 2009. Organised by K. Cameron and A. R. Mahjoub. *Even pairs in Berge graphs.*

• Workshop on Graph Colouring and Structure, Princeton, USA, May 2009. Organised by M. Chudnovsky, P. Seymour and R. Thomas. *Berge graphs with no balanced skew partition and no homogeneous pair.*

• Workshop on Graphs and Algorithms, Bertinoro, Italy, December 2009. Organised by M. Chudnovsky, K. Kawarabayashi and P. Wollan. *The k-in-a-tree problem for graphs of girth at least k.*

• Workshop on Graph Colouring, Haifa, Israël, August 2010. Organised by R. Aharoni, E. Berger and M. Chudnovsky. *Excluding subdivisions of a bull.*

• Centenary of Celina de Figueiredo and Frédéric Maffray, Grenoble, France, September 2010. Organised by L. Esperet, M. Preissmann, A. Sebő and Z. Szigeti. *Perfect graphs: many old things and several new things.*

• 2nd Workshop on Graph Decompositions, Theoretical, Algorithmic and Logical Aspects, CIRM, Luminy, France, October 2010. Organised by C. Paul. *Seven open questions about detecting induced subgraphs.*

• Danish Graph Theory Meeting, Kolding, Denmark, April 2011. Organised by J. Bang-Jensen, M. Kriesell and B. Toft. *Decomposition theorems for classes of graphs defined by constraints on connectivity.*

• Workshop on Graphs and Algorithms, Bertinoro, Italy, December 2011. Organised by M. Chudnovsky, K. Kawarabayashi and P. Wollan. *Optimizing in Berge trigraphs.*

• VMS-SMF Joint Congress, session Discrete Mathematics, Hue, Vietnam, August 2012. Organised by C. Crespelle and Phan Thi Ha Duong. *Coloring Berge graphs with no balanced skew partitions.*

• Danish Graph Theory Meeting, Nyborg, Denmark, November 2012. Organised by J. Bang-Jensen and B. Toft. *Decomposition theorems and degeneracy.*

• EPSRC Durham Symposium Graph Theory and Interactions, England, July 2013. Organised by P. Cameron, N. Peyerimhoff and A. Vdovina. *Truemper configurations.*

• Workshop on Graphs and Algorithms, Bertinoro, Italy, December 2013. Organised by M. Chudnovsky, K. Kawarabayashi and P. Wollan. *The stable set problem is FPT in bull-free graphs.*

• Meeting in honor of András Sebő, Grenoble, France, april 2014. Organised by N. Brauner, V. Jost, F. Maffray, F. Meunier, M. Preissmann and Z. Szigeti. *Isolating highly connected induced subgraphs.*

• STRUCO meeting on Graph theory and sparse structures, Prague, October 2014. Organised by P. Charbit and J. Nešetřil. *Isolating highly connected induced subgraphs.*

• Coloring graphs at the Technion, Haifa, Israël, July 2015. Organised by R. Aharoni, E. Berger, M. Chudnovsky and R. Meshulam. *χ-boundedness and chords.*

• Geometric and Structural Graph Theory, Banff, Canada, August 2017. Organised by B. Mohar, J. Pach et P. Seymour. *Polynomial χ-boundedness.*

• Danish Graph Theory Meeting, Nyborg, Denmark, August 2018. Organised by J. Bang-Jensen and B. Toft. *Connected greedy colouring in claw-free graphs.*

• 40 Years of Graphs and Algorithms, a conference in celebration of the achievements of Michel Habib, on the occasion of his retirement, Paris, France, October 2018. Organised by P. Charbit V. Limouzy R. Naserasr L. Nourine and C. Paul. *The induced linkage problem.*

• Barbados Graph Theory Workshop, Holetown, Barbados, April 2019. Organized by S. Norin, P. Seymour and D. Wood. *Layered wheels.*

• Workshop on even-hole-free graphs, Belgrade, Serbia, April 2019. Organized by N. Trotignon and K. Vušković. *Truemper configurations.*

• Graph Colouring: from Structure to Algorithms, Dagstuhl, Germany, July 2019. Organized by M. Chudnovsky , D. Paulusma and O. Schaudt. *Layered wheels.*

• A tribute to Frédéric Maffray, Grenoble, France, September 2019. Organized by Nicolas Bousquet, Louis Esperet, Benjamin Lévêque, Alantha Newman, Myriam Preissmann, András Sebő, Matej Stehlik, Zoltán Szigeti and Nicolas Trotignon. *Odd pairs of cliques.*

• New Perspectives in Colouring and Structure, Banff, Canada (Online), March 2020. Organized by Alex Scott, Bojan Mohar and Paul Seymour. *Widths of even-hole-free graphs.*

• British Combinatorial Conference, Durham (Online), July 2021. Minisymposium on Graph coloring organized by Irena Penev. *Burling graphs revisited.*

• New Perspectives in Colouring and Structure, Banff, Canada (Online), October 2021. Organized by Alex Scott, Bojan Mohar and Paul Seymour. *Burling graphs revisited.*

• Workshop on Graph Theory, Mathematisches Forshunginstitut, Oberwolfach, Germany, January 2022. Organised by Dan Král', J. Geelen and A. Scott. *Burling graphs revisited*

• Barbados Graph Theory Workshop, Holetown, Barbados, March 2022. Organized by S. Norin, P. Seymour and D. Wood. *When all holes have the same length.*

• 10th workshop on Graph Classes, Optimization, and Width Parameters (GROW), Koper, Slovenia, September 2022. Organized by Sergio Cabello and Martin Milanič. *From even-hole-free graphs to treewidth.*

• 10th workshop on Graph Classes, Optimization, and Width Parameters (GROW), Koper, Slovenia, September 2022. Organized by Sergio Cabello and Martin Milanič. *From even-hole-free graphs to treewidth.*

• CoSP Workshop Unfinished, Prague, Czech Republic, November 2023. Organized by Martin Loebl. *Is there a minimal non-chi-bounded hereditary class?*

Contributed talks

• Journées graphes algorithmes, Dijon, France, April 2003. *A class of perfectly contractile graphs.*

• France–Israel Expert Workshop on Graph Classes and Algorithms, Haifa, Israel, April 2004. *Algorithms for perfectly contractile graphs.*

• GT04, a conference in memory of Claude Berge, Paris, France, July 2004. *Algorithms for perfectly contractile graphs.*

• Journées graphes algorithmes, Grenoble, France, September 2004. *On the structure of self-complementary graphs.*

• ICGT'05, 7th International Colloquium on Graph Theory, Hyères, France, September 2005. *On the structure of self-complementary graphs.*

• Journées graphes algorithmes, Orléans, France, November 2006. *Decomposing Berge graphs and detecting balanced skew partitions.*

• Graphs and Optimization VI, Cademario, Switzerland, August 2007. *Detecting induced subgraphs.*

• Journées graphes algorithmes, Paris, France, November 2007. *Detecting induced subgraphs.*

• Journées graphes algorithmes, Sophia Antipolis, France, November 2008. *A structure theorem for graphs with no cycle with a unique chord and its consequences.*

• 8th French Combinatorial Conference, Orsay, France, June 2010. *2-joins.*

• 7th Slovenian International Conference on Graph Theory (Bled'11), Bled, Slovenia, June 2011. *Detecting a subdivision of a net.*

• 6th workshop on Graph Classes, Optimization, and Width Parameters (GROW), Santorini, Greece. *The stable set problem is FPT in bull-free graphs*, October 2013.

• Meeting in honor of András Sebő, Grenoble, France, April 2014. Organised by N. Brauner, V. Jost, F. Maffray, F. Meunier, M. Preissmann and Z. Szigeti. *Isolating highly connected induced subgraphs.*

• 9th International colloquium on graph theory and combinatorics (ICGT 2014), July 2014, Grenoble, France. *Isolating highly connected induced subgraphs.*

Seminars

• Journée Combinatoire Rhône-Alpes, Lyon, France, April 2003. *Local properties of large collections of sets.*

• Séminaire de Mathématiques Appliquées, Université de Bordeaux, France, April 2005. *Detection of induced subgraphs.*

• Séminaire de Mathématiques Discrètes et Sciences Sociales, École des Hautes Études en Sciences Sociales, January 2006. *Decomposing Berge graphs*

• Séminaire de Mathématiques et Informatique pour les Réseaux, École Nationale Supérieure des Télécommunications, Paris, April 2006. *Graph coloring using even pairs contraction*

• Séminaire de Combinatoire Algébrique et Géométrique, Université Pierre et Marie Curie, Paris, June 2006. *Decomposing Berge graphs and detecting balanced skew partitions*

• Séminaire du LIAFA, Université Denis Diderot, Paris, February 2007. *Decomposing Berge graphs and detecting balanced skew partitions*

• Séminaire Mathématiques Discrètes, Optimisation et Décision, Université Paris 1 Panthéon-Sorbonne, Paris, November 2007. *Sur les graphes ne possédant pas de cycle avec une seule corde.*

• Séminaire du LRI, Université Paris 11, Orsay, March 2008. *Un théorème de structure pour les graphes ne possédant pas de cycle avec une seule corde.*

• Semaine discrète, Université Grenoble 1, Grenoble, April 2008. *Un théorème de structure pour les graphes ne possédant pas de cycle avec une seule corde.*

• Séminaire Mathématiques Discrètes, Optimisation et Décision, Université Paris 1 Panthéon-Sorbonne, Paris, November 2008. *Le problème 4-dans-un-arbre pour les graphes sans triangles.*

• Seminar, Universidade Federal do Rio de Janeiro, Brasil, November 2008. *Decomposing Berge graphs and detecting balanced skew partitions.*

• Seminar, Universidade Federal do Rio de Janeiro, Brasil, November 2008. *A structure theorem for graphs with no cycle with a unique chord and its consequences.*

• Séminaire AlGco, LIRMM, Université Montpellier 2, December 2008. *Le problème 4-dans-un-arbre pour les graphes sans triangles.*

• Séminaire SIESTE, École Normale Supérieure de Lyon, January 2009. *Décompositions de graphes.*

• Séminaire Maths Discrètes, G-SCOP, Grenoble, September 2009. *Combinatorial optimization with 2-joins.*

• Journées ALADDIN, LABRI, Bordeaux, November 2009. *Excluding induced subgraphs.*

• Séminaire Algorithmique et Combinatoire, LIAFA, Paris, January 2010. *Graphs with no induced subdivision of K_4.*

• Seminar, University of Oxford, England, February 2010. *Decomposition of classes of graphs defined by excluding induced subgraphs and χ-boundedness.*

• One day conference "Graphs structure and algorithms", Union University, Belgrade, Serbia, June 2010. *Combinatorial optimization with 2-joins.*

• Seminar, Nihon University, Tokyo, Japan, July 2010. *Detecting induced subgraphs.*

• Séminaire Mathématiques Discrètes, Optimisation et Décision, Université Paris 1 Panthéon-Sorbonne, Paris, October 2010. *Quelques cas de la conjecture de Scott.*

• ULB Computer Science Seminars, Université Libre de Bruxelles, Belgium, March 2011. *Small cases of Scott's conjecture.*

• Séminaire Maths Discrètes, G-SCOP, Grenoble, June 2011. *Excluding subdivisions of the bull.*

• Séminaire Maths Discrètes, G-SCOP, Grenoble, February 2012. *Dectecting a net.*

• Séminaire de pôle du LIRMM, Montpellier, June 2013. *Graphes parfaits.*

• Séminaire de la détente mathématique, MMI, Lyon, October 2014. *Décompositions de graphes.*

• Regards croisés, ateliers doctoraux transdisciplinaires, Université de Toulouse, March 2015. *Coloration de graphes.*

• Algebra, Logic and Algorithms seminar, University of Leeds, May 2016. *Recognition, chi-boundedness and chords.*

• Séminaire MDOD, Université Paris 1 Panthéon Sorbonne, November 2017. *Graphs classes defined by excluding Truemper Configurations.*

• Séminaire graphes et optimisation, LABRI, Bordeaux, November 2017. *Graphs classes defined by excluding Truemper Configurations.*

• Séminaire général du Laboratoire d'informatique Gaspard-Monge, Marne-la-Vallée, November 2017. *Graphs classes defined by excluding Truemper Configurations.*

• Semaine sport-études, computer science department of ENS de Lyon, Les 7 Laux, January 2018. *Graph Theory.*

• Princeton Discrete Mathematics Seminar (on line), March 2020. *Rankwidth, graphs on four vertices, and even holes.*

• Tutte Colloquium, University of Waterloo (on line), June 2020. *Widths in even-hole-free graphs.*

• GT graphes et optimisation, Labri, Bordeaux (on line), November 2020. *Why even-hole-free graphs ?*

• Journée de la fédération NormaSTIC, Lisieux, November 2021. *Graphes : structures et algorithmes*

• Séminaire MDOD, Université Paris 1 Panthéon Sorbonne (on line), February 2022. *Minors vs induced subgraphs.*

• Raziskovalni matematični seminar, Univerza na Primorskem, Koper, Slovenia, March 2022. *Minors vs induced subgraphs.*

• Combinatorics Today Series, Combinatorial Mathematics Research Group, FMIPA ITB (on line), Indonésie, novembre 2022. *Widths and even-hole-free graphs, a tour in structural graph theory.*

• Raziskovalni matematični seminar, Univerza na Primorskem, Koper, Slovenia, September 2023. *Graphs of high odd girth and high chromatic number.*

9 Other

1996 – 1997

Military service at Direction Centrale du Service des Essences des Armées, at Vanves, France. Software maintenance, various tasks...

1994

Training course at INRIA (National Institut for Research in Computer Science and Automatic), Sophia Antipolis, Croap project. Supervisor: Thierry Despeyroux. Syntax of C++ language. Conception of a programming environment for C++, using Centaur System.

1992

Training course at the representative office of Crédit Lyonnais Bank in Beijing, China. Data bases.