

# Louigi Addario-Berry

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## PERSONAL

Born May 28, 1981. Married, two children.

## EMPLOYMENT

<b>Full Professor</b>	McGill University	Nov 2021-Present
<b>Associate Professor</b>	McGill University	Jun 2013-Oct 2021
<b>Assistant Professor</b>	McGill University	Jun 2009-May 2013
<b>Professeur Adjoint</b>	Université de Montréal	Aug 2008-May 2009
<b>Marie Curie Fellow</b>	University of Oxford	Sep 2006-Aug 2008

## EDUCATION

<b>Doctor of Philosophy</b>	McGill University	Sep 2003-Aug 2006
<b>Master of Science</b>	McGill University	Jan 2002-Aug 2003
<b>Bachelors of Science</b>	McGill University	Sep 1997-Dec 2001

## AFFILIATIONS

<b>Associate Member</b>	McGill School of Computer Science	Jan 2010-Present
<b>Member</b>	Centre de Recherches Mathématiques	June 2013-Present
<b>Member</b>	McGill Sustainability Systems Initiative	April 2018-Present
<b>Member</b>	McGill Quantitative Life Science	May 2018-Present

## LEADERSHIP

<b>Director</b>	CRM Probability Lab	Sep 2020-
<b>Deputy Director</b>	Centre de Recherches Mathématiques	Jul 2015-June 2019
<b>Scientific Director</b>	CMS 2015 winter meeting	Dec 2015
<b>Vice President for Québec</b>	Canadian Mathematical Society (CMS)	Jul 2013-Jun 2015

## FELLOWSHIPS AND AWARDS

<b>Simons Fellow in Mathematics</b>	Simons Foundation	2021
<b>Fellow of the IMS</b>	Institute of Mathematical Statistics	Elected in 2020
Citation: <i>For fundamental contributions to probability, in particular to the topics of branching structures and random graphs, and for his devoted service to the mathematical sciences and promotion of diversity within them.</i>		
<b>Fellow of the CMS</b>	Canadian Mathematical Society	Elected in 2019
<b>Coxeter-James Prize</b>	Canadian Mathematical Society	2016

## VISITING POSITIONS

<b>Visiting Research Fellowship</b>	Merton College, Oxford	Fall 2022
<b>Professeur Invité</b>	Université Pierre et Marie Curie, Paris	Jan-Feb 2017
<b>Simons Visiting Fellow</b>	Isaac Newton Institute, Cambridge	Mar-Apr 2015
<b>Visiting Scholar</b>	Corpus Christi College, Oxford	Jan-Jun 2015
<b>Visiting Fellow</b>	Magdalen College, Oxford	Oct-Dec 2014
<b>Leverhulme Visiting Professor</b>	Department of Statistics, Oxford	Jul 2014-Jun 2015
<b>Professeur Invité</b>	École Normale Supérieure, Lyon	Feb 2013

## EDITORIAL WORK

<b>Editor-in-Chief</b>	Canadian Journal of Mathematics	Jan 2017-Dec 2021
<b>Associate Editor</b>	Canadian Bulletin of Mathematics	2014-2021
<b>Associate Editor</b>	Electronic Journal of Probability	2015-2017
<b>Associate Editor</b>	Electronic Communications in Probability	2015-2017
<b>Associate Editor</b>	Canadian Journal of Mathematics	2014-2016
<b>PC Member</b>	AnalCo 2015	2015
<b>PC Member</b>	RANDOM 2014	2014

## SELECTED ORGANIZATIONAL WORK

MSRI Semester: Probability and Statistics of Discrete Structures, Organizer	Spring 2025
MSRI Summer School: Random Graphs	July 4-15, 2022
CRM thematic semester: Probability and PDEs, Lead Organizer	Jan-July 2022
Banff International Research Station, Scientific Panel and Program Committee	2020-2022
Banff International Research Station, EDI Committee and EDIC/PC Liaison	2020-2022
Online open probability school, organizing committee	2020-
One world probability seminar, advisory board member	April 2020-
Seminar on Stochastic Processes, scientific committee long-term member	Ongoing
CIRM Conference: Spectra, Algorithms & Random Walks on Random Networks	Jan 2020
XV CLAPEM invited session: Random processes on networks and their limits	December 2019
ISM Discovery School: Dynamics of Random Processes	June 2019
XIX International Congress on Mathematical Physics, thematic session organizer	July 2018
Montreal summer workshop: challenges in probability and mathematical physics	July 2018
40 <sup>th</sup> SPA conference, program committee member	June 2018
Oberwolfach workshop on network models	December 2017
Mathematical Congress of the Americas, CRM-IMPA satellite workshop on challenges at the interface of optimization and stochastic processes	July 2017
CRM workshop on random growth models, random walks and random matrices	Sep 2016
CRM-PIMS Summer School in Probability	Jun-Jul 2015
CRM workshop on multiplicative and probabilistic number theory	Dec 2014
XIII CLAPEM, invited session on probability and graphs	Sep 2014
BIRS workshop on probability on trees and planar graphs	Sep 2014
38 <sup>th</sup> SPA conference, invited session on random graph processes	Jul 2014
MCA session on combinatorics and graph theory	Aug 2013
CRM workshop on random trees	Aug 2013
CRM thematic semester on biodiversity and evolution	Jul-Dec 2013
Oberwolfach workshop on extremes in branching random walk	Apr 2013
CMS winter meeting, session on probability and mathematical physics	Dec 2012

SMS graduate summer school	Jun-Jul 2012
BIRS workshop on branching random walks and searching in trees	Feb 2010
CRM workshop on combinatorics and probability	May 2009
Bellairs workshop on probability and combinatorics	Annual-ish, 2009-2022

## TEACHING

Random graphs	Summer 2021
Brownian motion	Winter 2013, Fall 2016
Graduate probability	Several times
Stochastic processes	Several times
Combinatorial stochastic processes	Winter 2010
Discrete structures	Several times
Additive combinatorics	Fall 2008

## SUPERVISION AND TRAINING

### Postdoctoral

*Erin Beckman*, September 2019-August 2022. (Assistant Professor, Utah State University)  
*Abbas Mehrabian*, September 2017-August 2020. (Research scientist, Deep Mind.)  
*Sanchayan Sen*, September 2016-August 2018. (Assistant professor, Indian Institute of Science, Bangalore.)  
*Janosch Ortmann*, August 2015-July 2017. (Assistant professor, University du Québec à Montréal.)  
*Guillem Perarnau*, October 2013-August 2015. (Associate professor, Universitat Politècnica de Catalunya.)  
*David Belius*, September 2013-August 2014. (Assistant professor, University of Basel.)  
*Yu-Ting Chen*, August 2013-August 2014. (Assistant professor, University of Victoria.)  
*Matthew Roberts*, September 2011-September 2012. (Royal Society University Research Fellow and Reader, Bath.)  
*Ross Kang*, September 2008-January 2010. (Associate professor, Nijmegen.)  
*Simon Griffiths*, September 2008-August 2010. (Associate professor, Pontifical Catholic University, Rio de Janeiro; Fulkerson Prize winner.)

### Doctoral

*Arturo Arellano*, Sep 2021-Aug 2025 (est).  
*Jordan Barrett*, Sep 2018-Aug 2022 (est).  
*Benoit Corsini*, Sep 2017-April 2022 (est).  
*Yuting Wen*, Aug 2012-Feb 2016. (Now an associate at Goldman Sachs.)  
*Laura Esliava*, Jan 2013-April 2017. (Now an assistant professor at UNAM.)  
*Tao Lei*, Sep 2012-Feb 2018. (Now in risk management at Royal Bank of Canada.)

### Masters

*Rivka Mitchell*, Jan 2020-April 2021.  
*Elaine Herrera*, Sep 2019-June 2021.  
*Céline Kerriou*, Sep 2019-May 2021.  
*Wen Zhang*, Sep 2018-March 2021.  
*Thomas Tendron*, Jan 2019- August 2020.  
*Alexandre Brandis-Longtin*, Sep 2016-April 2018  
*Nicholas Leavitt*, Sep 2014-Aug 2015.  
*Omar Khalil*, Sep 2011-Apr 2013, Jan 2014-Aug 2014.

*Laura Eslava*, Jan 2011-Jan 2013.  
*Tao Lei*, Sep 2010-Aug 2012.

### Research interns and undergraduate trainees

2021. *Serte Donderwinkel, Vasiliki Velona*  
2020. *Yuanchu Li, Joffrey Mathien, Paul Thevenin, Vasiliki Velona, Zoé Wefers*. (All cancelled due to Covid-19.)  
2019. *Orphée Collin, Mathieu Even, Poorva Garg, Shimin Fu*  
2018. *Hannah Cairns, Héloïse Constantin, Elias Hess-Childs, Celine Kerriou, Rivka Mitchell, Robin Vacus*.  
2017. *Fengdi Che*  
2016. *Apolline Bard, Alexandre Brandts-Longtin, Paul Thevenin*  
2014-15. *Lyuba Bozhilova, Yutian Wang*.  
2013. *Nicholas Leavitt*.  
2011. *Jean-Philippe Fortin, Samantha Rudinski*.  
2010. *Maria Eberg, Sisi Chen*.  
2009. *Jean-François Cyr*.

### PEER-REVIEWED INDIVIDUAL FUNDING

Simons Fellowship	July 2021-June 2022
NSERC Discovery Grant	Apr 2017-Mar 2023
NSERC Discovery Accelerator Supplement	Apr 2017-Mar 2020
FRQNT team research grant (33%)	May 2017-Apr 2020
FRQNT/CFQCU strategic partnership programme	Apr 2016-Mar 2018
NSERC discovery grant	Apr 2012-Mar 2017
INRIA équipe associée	May 2013-Apr 2016
Royal Society collaboration grant (50%)	Aug 2012-Feb 2015
FRQNT young researchers grant	Apr 2012-Mar 2014
FRQNT team research grant	Apr 2010-Mar 2013
NSERC discovery grant	Apr 2007-Mar 2012
Royal Society collaboration grant	May 2007-May 2009
Marie Curie Intra-European Fellowship	Oct 2006-Aug 2008

### INVITED LECTURES SINCE 2011

*Note: (T) indicates an invited lecture, (P) indicates a plenary lecture, (L) indicates an invited lecture series or mini-course*

#### 2023

(P) Schramm Lecture. 43<sup>rd</sup> Conference on Stochastic Processes and their Applications, Lisbon, July 2023

#### 2022

(L) MSRI Summer school on random graphs, Berkeley, July 2022

#### 2021

(T) PIMS-University of Victoria Distinguished Lecture, October 2021  
(T) University of Victoria Probability and Dynamics Seminar, October 2021  
(T) Permutations and Probability Workshop, BIRS, Banff, September 2021  
(L) CRM-PIMS probability summer school, principal lecturer, online, June 2021  
(T) Waterloo probability seminar, online, March 2021  
(T) Northwestern/Minnesota joint probability seminar, online, February 2021  
(T) Opening workshop, SAMSI Combinatorial Probability thematic semester, online, January 2021.

#### 2020

- (T) One World Probability Seminar, online, May 2020.
- (T) Oxford Probability and Discrete Mathematics Seminar, online, April 2020.
- (T) Sixth Bath-Beijing-Paris Branching Structures meeting, Bath, April 2020. Cancelled.
- (L) Random geometry and quantum gravity research school, Luminy, April 2020. Cancelled.
- (T) UBC Informal Probability Seminar, March 2020.
- (T) Harvard Probability and Random Matrix Theory seminar, February 2020.

## 2019

- (T) XV CLAPEM 2019, Merida, December 2019
- (T) Random Walks, Random Graphs and Random Media, Munich, September 2019
- (P) Mathematical Society of Japan, Seasonal Institute, Fukuoka, August 2019
- (L) Summer school on random walks and complex networks, Nice, July 2019
- (T) Analysis of Algorithms 2019, Luminy, June 2019
- (T) First Armenian Conference on Probability, Combinatorics, and their application to Machine Learning, Dzoraget, June 2019

## 2018

- (T) Workshop on branching-type structures, Zurich, September 2018
- (T) IMS Annual Meeting on Probability and Statistics, Vilnius, July 2018
- (P) Analysis of Algorithms 2018, Uppsala, June 2018
- (T) Rhine-Mainz Stochastics Colloquium, Frankfurt, June 2018
- (P) XXIe Colloque panquébécois des étudiants de l'ISM, May 2018

## 2017

- (T) Conference on Dynamics on Random Graphs and Random Maps, CIRM, Marseille, October 2017
- (L) Summer School on Random Graphs and Probabilistic Methods, Fields Institute, June 2017
- (T) Workshop on Stochastic Analysis, Oberwolfach, May 2017
- (T) Brown University Probability Seminar, April 2017
- (T) Colloque des Sciences Mathématiques du Québec, March 2017
- (P) Journées de combinatoire de Bordeaux, January 2017
- (T) Conference on large 2D random structures, IHP, Paris, January 2017.

## 2016

- (P) Canadian Mathematical Society winter meeting, Niagra Falls, December 2016.
- (T) Probabilistic Methods in Topology Workshop, CRM, November 2016
- (T) Random Geometric Graphs and Their Applications to Complex Networks, BIRS, Banff, November 2016
- (T) Duke Probability Seminar, November 2016
- (T) University of Pennsylvania Probability Seminar, October 2016
- (T) 9<sup>th</sup> World Congress in Probability and Statistics, Toronto, July 2016
- (L) Finger Lakes Probability Seminar, Cornell, April 2016
- (P) 36<sup>th</sup> Annual Seminar on Stochastic Processes, Maryland, March 2016
- (T) Harvard Probability Seminar, Jan 2016
- (T) Joint Mathematics Meetings, AMS Special session, Seattle, Jan 2016

## 2015

- (T) Duke Probability Seminar, November 2015
- (T) Toronto Probability Seminar, November 2015
- (T) XXVI Analysis of Algorithms conference, Ströbl, June 2015
- (T) Combinatorial Probability conference, Uppsala, June 2015
- (P) XVI One-day meeting in Combinatorics, Oxford, May 2015
- (T) Utrecht Mathematics Seminar, May 2015
- (T) Informal Probability Workshop, Oxford, May 2015
- (T) Workshop on Random Planar Structures, Newton Institute, Cambridge, April 2015

- (T) Queen Mary Probability Seminar, March 2015
- (T) Zurich/ETH Probability Seminar, February 2015
- (T) Bath Probability Seminar, February 2015
- (T) Warwick Probability Seminar, January 2015

#### 2014

- (T) CMS Winter Meeting, Hamilton, December 2014
- (T) XIII Northeast Probability Seminar, CUNY Stonybrook, November 2014
- (T) Workshop on Probability, Trees and Algorithms, Oberwolfach, November 2014
- (T) Combinatorics Seminar, Warwick, October 2014
- (T) Informal Probability Workshop, Oxford, October 2014
- (T) Recent models in Random Media, BIRS, Banff, September 2014
- (T) IMS-ASC Conference, Sydney, July 2014
- (T) Combinatorics Seminar, Oxford, June 2014
- (L) Conference on random walks and random media, CIRM, Marseille, June 2014.
- (T) Statistical Society of Canada Annual Conference, University of Toronto, May 2014
- (T) IV Southeast Probability Seminar, Duke University, May 2014

#### 2013

- (L) XI Symposium of Probability and Stochastic Processes, CIMAT, Guanajuato, Nov 2013.
- (T) University of Chicago Probability Seminar, July 2013
- (T) Universités Paris VI& VII Probability Seminar, Feb 2013
- (T) École normale supérieur de Lyon Probability Seminar, Feb 2013
- (T) Two-dimensional Statistical Mechanics, Diablerets, Feb 2013.

#### 2012

- (T) Workshop on Scaling Limits in Models of Statistical Mechanics, Oberwolfach, Sep 2012.
- (T) 8'th World Congress in Probability and Statistics, Istanbul, July 2012
- (P) XIV one-day meeting in Combinatorics, Oxford, UK, May 2012
- (T) Combinatorics Seminar, École Polytechnique, Paris, France, May 2012
- (T) Université de Laval Probability Seminar, Québec, February 2012
- (T) New Zealand Probability Workshop, Auckland, January 2012

#### 2011

- (T) Canadian Mathematical Society winter meeting, Toronto, December 2011
- (T) University of Bath Probability Seminar, Bath, November 2011
- (T) IMPA probability seminar, Rio De Janeiro, October 2011
- (P) 35'th Conference on stochastic processes and their applications, Oaxaca, June 2011
- (T) 3'rd Canadian Discrete and Algorithmic Mathematics Conference, Victoria BC, June 2011
- (T) Workshop on Random Trees, Information and Algorithms, Oberwolfach, April 2011
- (P) British workshop on discrete structures and dynamics, Oxford, April 2011

## PUBLICATION LIST

**NB** Almost all my recent papers are available from my arXiv author page.

### Refereed contributions

#### Articles, published or accepted

1. Addario-Berry, L., Lin, J. and Tendre, T. (2022+) Barycentric Brownian Bees. *Annals of Applied Probability*, to appear.
2. Addario-Berry, L., Devroye, L., Lugosi, G. and Velona, V. (2022) Broadcasting on random recursive trees. *Annals of Applied Probability*, 32:497-528.

3. Addario-Berry, L., Beckman, E., Lin, J. (2022) Asymmetric cooperative motion in one dimension. *Transactions of the AMS*, 375:2883-2913.
4. Addario-Berry, L. and Barrett, J. (2021) Random tree-weighted graphs. *Stochastic Analysis, Random Fields and Integrable Probability, Adv. Studies in Pure Math., MSJ* 87:1-59.
5. Addario-Berry, L. and Corsini, B. (2021) The height of Mallows trees. *Annals of Probability*, 49(5), 2220-2271.
6. Addario-Berry, L. and Albenque, M. (2021) Convergence of odd-angulations via symmetrization of labeled trees. *Annales Henri Lebesgue*, 4, 653-683
7. Addario-Berry, L. and Sen, S. (2021) Geometry of the minimal spanning tree of a random 3-regular graph. *Probability Theory and Related Fields*, 180(3), 553-620.
8. Addario-Berry, L., Bhamidi, S. and Sen, S. (2021) A probabilistic approach to the leader problem in random graphs. *Random Structures and Algorithms*, 58:34-67.
9. Addario-Berry L., Balle, B. and Perarnau, G. (2020) Diameter and stationary distribution of random  $r$ -out digraphs. *Electronic Journal of Combinatorics*, 27:P3.28.
10. Addario-Berry, L., Cairns, H., Devroye, L., Kerriou, C. and Mitchell, R. (2020) Hipster random walks. *Probability Theory and Related Fields*, 178:437-473.
11. Addario-Berry, L. and Maillard, P. (2019) The algorithmic hardness threshold for continuous random energy models. *Mathematical Statistics and Learning*, 2:77-101.
12. Addario-Berry L. (2019) A probabilistic approach to core size in random maps. *ALEA - Latin American Journal of Mathematics and Statistics*, 16:1-13.
13. Addario-Berry, L., Berestycki, J. and Penington, S. (2019) Branching Brownian motion with decay of mass and the non-local Fisher-KPP equation. *Communications on Pure and Applied Mathematics*, LXXII, 2487-2577.
14. Addario-Berry, L., Devroye, L., Lugosi, G. and Oliveira, R.I. (2019) Local optima of the Sherrington-Kirkpatrick Hamiltonian. *Journal of Mathematical Physics*, 60, 043301.
15. Addario-Berry, L., Dieuleveut, D. and Goldschmidt, C. (2019) Inverting the cut-tree transform. *Annales de l'Institut Henri Poincaré*, 55:1349-1376.
16. Addario-Berry, L. (2019), Most trees are short and fat. *Probability Theory and Related Fields*, 173:1-26.
17. Addario-Berry, L. and Roberts, M. (2018), Mixing time bounds via bottleneck sequences. *Journal of Statistical Physics*, 173:845-871.
18. Addario-Berry, L. and Eslava, L. (2018) High degrees of random recursive trees. *Random Structures and Algorithms*, 52:560-575.
19. Addario-Berry, L. and Wen, Y. (2017) Joint convergence of random quadrangulations and their cores. *Annales de l'Institut Henri Poincaré, Probability and Statistics*, 53:1890-1920.
20. Addario-Berry, L. and Penington, S. (2017), The front location in branching Brownian motion with decay of mass. *Annals of Probability*, 45:3752-3794.
21. Addario-Berry, L., Broutin, N., Goldschmidt, C. and Miermont, G. (2017) The scaling limit of the minimum spanning tree of the complete graph. *Annals of Probability*, 45:3075-3144.
22. Addario-Berry, L. and Albenque, M. (2017), The scaling limit of random simple triangulations and random simple quadrangulations. *Annals of Probability*, 45:2767-2825.
23. Addario-Berry, L., Oliveira, R.I., Peres, Y. and Sousi, P. (2016), Random walks colliding before getting trapped. *Electronic Journal of Probability* 21, no. 42, pages 1-19.
24. Addario-Berry, L. and Leavitt, N. (2016), Random infinite squarings of rectangles. *Annales de l'Institut Henri Poincaré, Probability and Statistics* 52:596-611.
25. Addario-Berry L., Bhamidi, S., Bubeck, S., Devroye, L., Lugosi, G. and Oliveira, R.I. (2015), Exceptional rotations of random graphs: a VC theory, *Journal of Machine Learning Research* 16:1893-1922.
26. Addario-Berry, L. (2015), Partition functions of discrete coalescents: from Cayley's formula to Frieze's  $\zeta(3)$  limit theorem, in *Proceedings of the XI Symposium on Probability and Stochastic Processes*, ed. R.H. Mena, J.C. Pardo, V. Rivero, G. Uribe Bravo. Birkhauser Progress in Probability 69:1-45.

27. Addario-Berry, L. and Lei, T. (2015), The mixing time of the Newman-Watts Small World, *Advances in Applied Probability* 47:37-56.
28. Addario-Berry, L., Broutin, N. and Holmgren, C. (2014), Cutting down trees with a Markov chainsaw, *Annals of Applied Probability*, 24:2297-2339.
29. Addario-Berry, L. (2014), Growing random 3-connected maps, or "comment s'enfuir de l'hexagone", *Electronic Communications in Probability*, 19:no. 54, 1-12.
30. Addario-Berry, L. and Eslava, L. (2014) Hitting time theorems for random matrices, *Combinatorics, Probability and Computing*, 23:635-669.
31. Addario-Berry, L., Janson, S. and McDiarmid, C. (2014) On the spread of supercritical random graphs, *Combinatorics, Probability and Computing*, 23:477-504.
32. Addario-Berry, L., Havet, F., Linhares Sales, C. and Reed, B., Thomassé, S. (2013) Oriented trees in digraphs, *Discrete Mathematics*, 313:967-974.
33. Addario-Berry, L., Devroye, L. and Janson, S. (2013) Sub-Gaussian tail bounds for the width and height of conditioned Galton–Watson trees, *Annals of Probability*, 41:1072-1087.
34. Addario-Berry, L. and Ford, K. (2013) Poisson–Dirichlet branching random walks, *Annals of Applied Probability*, 21:283-307.
35. Addario-Berry, L., McDiarmid, C. and Reed, B. (2012) Connectivity of addable monotone graph classes, *Combinatorics, Probability and Computing*, 21:803-815.
36. Addario-Berry, L. (2012) Tail bounds for the height and width of a random tree with a given degree sequence, *Random Structures and Algorithms*, 41:253-261.
37. Addario-Berry, L., Griffiths, S. and Kang, R. (2012) Invasion percolation on the Poisson-weighted infinite tree, *Annals of Applied Probability*, 22:931-970.
38. Addario-Berry, L., Broutin, N. and Goldschmidt, C. (2012) The continuum limit of critical random graphs. *Probability Theory and Related Fields*, 152:367-406.
39. Addario-Berry, L. and Broutin, N. (2011) Total progeny in killed branching random walk. *Probability Theory and Related Fields*, 151:265-295.
40. Addario-Berry, L. and Dowden, C. (2011) Subgraphs of 4-regular planar graphs, *Algorithmica*, 61:758-776.
41. Addario-Berry, L., Broutin, N., Devroye, L. and Lugosi, G. (2010) On combinatorial testing problems. *Annals of Statistics*, 38:3063-3092.
42. Addario-Berry, L., Broutin, N. and Goldschmidt, C. (2010) Critical random graphs: limiting constructions and distributional properties. *Electronic Journal of Probability*, 15:741-775
43. Addario-Berry, L., Broutin, N. and Lugosi, G. (2010) Effective resistance of random trees, *Annals of Applied Probability* 19:1092-1107
44. Addario-Berry, L., Kang, R. and Müller, T. (2010) Acyclic dominating partitions, *Journal of Graph Theory*, 64:292–311.
45. Addario-Berry, L., Broutin, N. and Lugosi, G. (2010) The longest minimum-weight path in a complete graph, *Combinatorics, Probability and Computing* 19:1-19.
46. Addario-Berry, L., Esperet, L., Kang, R., McDiarmid, C. and Pinlou, A. (2010) Acyclic  $t$ -improper colourings of graphs with bounded maximum degree, *Discrete Mathematics* 310:223-229.
47. Addario-Berry, L., Kennedy, W.S., King, A.D., Li, Z. and Reed, B. (2010) Finding the maximum-weight induced  $k$ -partite subgraph of an  $i$ -triangulated graph, *Discrete Applied Mathematics* 158:765-770.
48. Addario-Berry, L. and Reed, B. (2009) Minima in branching random walks, *Annals of Probability* 37:1044-1079.
49. Addario-Berry, L., Broutin, N. and Reed, B. (2009) Critical random graphs and the structure of a minimum spanning tree, *Random Structures and Algorithms* 35:271-296.
50. Addario-Berry, L. and Reed, B. (2008) Ballot Theorems, Old and New, *Bolyai Society Mathematical Studies Series* 17:1 9-35.
51. Addario-Berry, L., Chudnovsky, M., Havet, F., Reed, B. and Seymour, P. (2008) Bisimplicial vertices in even-hole-free graphs, *Journal of Combinatorial Theory B* 98:6 1119-1164.

52. Addario-Berry, L., Dalal, K. and Reed, B (2008) Degree Constrained Subgraphs, *Discrete Applied Mathematics* 156:7 1168-1174.
53. Addario-Berry, L., Dalal, K., McDiarmid, C., Reed, B. and Thomason, A. (2007) Vertex Colouring Edge Weightings, *Combinatorica* 27:1 1-12.
54. Addario-Berry, L., Havet, F. and Thomasse, S (2007) Paths with two blocks in  $n$ -chromatic digraphs, *Journal of Combinatorial Theory B* 97:4 620-626.
55. Addario-Berry, L., Olver, N. and Vetta, A., (2007) A Polynomial Time Algorithm for Finding Nash Equilibria in Planar Win-Lose Games, *Journal of Graph Algorithms and Applications* 11:1 309-319.
56. Addario-Berry, L., Aldred, R.L., Dalal, K. and Reed, B. (2005) Vertex Colouring Edge Partitions, *Journal of Combinatorial Theory B* 94:2 237-244.
57. Addario-Berry, L., Chor, B., Hallett, M., Lagergren, J., Panconesi, A. and Wareham, T. (2004) Ancestral Maximum Likelihood of Evolutionary trees is Hard, *Journal of Bioinformatics and Computational Biology* 2:257-271.

#### Articles, submitted/available on arXiv

58. Addario-Berry, L., Barrett, J., Corsini, B. (2022+) Finding minimum spanning trees via local improvements.
59. Addario-Berry, L., Donderwinkel, S.. (2022+) Random trees have height  $O(\sqrt{n})$ .
60. Addario-Berry, L., Donderwinkel, S., Maazoun, M., Martin, J. (2022+) A new proof of Cayley's formula.
61. Addario-Berry, L., Brandenberger, A., Hamdan, J., Kerriou, C. (2022+) Universal height and width bounds for random trees.
62. Addario-Berry, L., (2022+) The local weak limit of the minimum spanning tree of the complete graph.
63. Addario-Berry, L. and Griffiths, S. (2022+) The spectrum of random lifts.

#### Other Refereed Contributions

##### Conference Proceedings, published or accepted

64. Addario-Berry, L., Angel, O., Chapuy, G., Fusy, E. and Goldschmidt, C. (2018) Voronoi tessellations in the CRT and continuum random maps of finite excess. 2018 Symposium on Discrete Algorithms, New Orleans, January 7-10, 2018.
65. Addario-Berry, L. and Lei, T. (2012) The mixing time of the Newman–Watts small world, 2012 Symposium on Discrete Algorithms, Kyoto, January 17-19, 2012.
66. Addario-Berry, L., Amini, O., Sereni, J.-S. and Thomassé, S. (2008) Guarding art galleries: the extra cost for sculptures is linear. *Lecture notes in computer science* 5124:41-52.
67. Addario-Berry, L., Broutin, N. and Reed, B. (2006) The Diameter of the Minimum Weight Spanning Tree of a Complete Graph, Fourth Colloquium on Mathematics and Computer Science Algorithms: Trees, Combinatorics and Probability, *Discrete Mathematics and Computer Science Proceedings* 237-250.
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