

Curriculum Vitae

Personal Details

Name : Dana Louigi Addario-Berry
Date of Birth : 28-05-1981
Location of Birth : Hamilton, Canada
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Professional

Institutional History

<i>Institution</i>	<i>Period Attended</i>	<i>Activity</i>
McGill University	June 2009-	Assistant Professor
Université de Montréal	August 2007-May 2009	Professeur adjoint
University of Oxford	Sep 2006-August 2007	Research Fellowship
McGill University	2003-2006	Doctor of Philosophy
McGill University	2001-2003	Masters of Science
McGill University	1997-2001	Bachelor of Science

Teaching

<i>Term</i>	<i>Course</i>	<i>Number</i>
Winter 2011	Stochastic Processes	MATH 547
Winter 2011	Introduction to Stochastic Processes	MATH 447
Winter 2011	Advanced Probability Theory II	MATH 589
Fall 2010	Advanced Probability Theory I	MATH 587
Winter 2010	Combinatorial Stochastic Processes	MATH 758
Winter 2010	Discrete structures II	MATH 340
Winter 2009	Processus stochastiques	MAT 2717
Fall 2008	The probabilistic method in combinatorics and number theory	MAT 6480

Conference Organization

- * Workshop on spatial branching processes and critical percolation. *CIRM, Luminy, May 2012 (requested).*
- * Workshop on discrete probability. *McGill Bellairs Research Institute, March 2011.*
- * Workshop on Probability and combinatorics. *McGill Bellairs Research Institute, March 2010.*
- * Workshop on Branching random walks and searching in trees. *BIRS, Feb 2010.*
- * Workshop on Combinatorics and Probability. *CRM, May 2009.*
- * Workshop on Random structures. *McGill Bellairs Research Institute, April 2009.*

Other Organizational Work

- * Oxford combinatorics seminar (joint with Alex Scott). *Sep 2007-May 2008.*
- * Université de Montréal/McGill CARP seminar. *Sep 2008-Jan 2009.*
- * Université de Montréal graduate seminar (joint with Abraham Broer). *Sep 2008-April 2009.*
- * Université de Montréal club mathématique (joint with Christiane Rousseau). *Sep 2008-April 2009.*

Fellowships, awards, and funding received

<i>Award Name</i>	<i>Period Held</i>
FQRNT team research grant	May 2010-April 2013
McGill startup grant	June 2009-May 2012
U de M subvention liée à l'internationalisation	March 2009-May 2010
Marie Curie Intra-European Fellowship	October 2006-August 2008
NSERC Discovery Grant	August 2007-August 2012
Royal Society International Collaboration Grant	May 2007-May 2009
FQRNT Bourse de recherche postdoctorale	September 2006-August 2007
FQRNT Bourse de doctorat	May 2006-September 2006
EGIDE Foreign Study Award	September 2004-December 2004
NSERC CGS	May 2004-April 2006
IT Top-Up	September 2003-December 2003
NSERC PGS-A	May 2002-April 2004
FCAR Bourse de Maîtrise	Declined
NSERC USRA	May 2001 - September 2001
NSERC USRA	May 2000 - September 2000
NSERC USRA	May 1999 - September 1999
McConnell Scholarship	September 1997 - December 2001

Invited Talks

- * UPenn Probability Seminar, November 2009
- * Oxford combinatorics seminar, October 2009
- * Warwick probability forum, October 2009
- * INRIA Rocquencourt, Algorithmes seminar, October 2009
- * Urbana-Champaign Probability Seminar, March 2009
- * MIT Probability Seminar, December 2008
- * Royal Holloway University mathematics seminar, London, May 2008
- * LSE discrete mathematics seminar, London, November 2007
- * Technische Universiteit Eindhoven probability seminar, May 2007
- * Universität Münster probability seminar, Münster, May 2007
- * INRIA graph theory seminar, Sophia-Antipolis, June 2006
- * Cambridge University combinatorics seminar, July 2005
- * Oxford combinatorics seminar, March 2005
- * INRIA graph theory seminar, Sophia-Antipolis, February 2005

Invited Workshop/Conference Participation

Note : (T) indicates an invited talk, (P) indicates plenary speaker.

- (P) 35'th Conference on stochastic processes and their applications, Oaxaca, Mexico, June 2011
- (P) British workshop on discrete structures and dynamics, Oxford, UK, April 2011
- (T) Institut Henri Poincaré thematic semester in statistical physics, combinatorics and probability, introductory symposium, September 2009
- (P) Young European Probabilists, Eindhoven, March 2010
- (T) Workshop on probabilistic and extremal combinatorics, BIRS, Banff, August 2009
- Analysis of Algorithms, Fréjus, France, June 2009
- (T) Workshop on advances in stochastic inequalities, BIRS, Banff, June 2009
- (T) Analysis of Algorithms, Maresias, Brasil, April 2008
- Workshop on probabilistic combinatorics, Bellairs, Barbados, March 2008
- (T) Workshop on probabilistic methods and WVD, Bellairs, Barbados, March 2007
- (T) Graph colouring problems arising in telecommunications, BIRS, Banff, March 2007
- Workshop on Random Walks in Random Environments, Fields Institute, May 2006
- Workshop on Random Graphs and Probabilistic Combinatorics, Bellairs, Barbados, March 2006
- (T) Workshop on probabilistic combinatorics, BIRS, Banff, October 2005
- Workshop on concentration of measure, Rio de Janeiro, April 2005
- (T) Workshop on matching theory, Rio de Janeiro, April 2005
- ALEA Workshop on random structures, CIRM, Luminy, March 2005
- (T) Workshop on computational geometry, Havana, April 2004
- Workshop on structural and probabilistic graph theory, BIRS, Banff, September 2003
- Workshop on computational biology , Bellairs, Barbados, April 2001

Other Workshop and Conference Participation

Escola Brasileira de Probabilidade, Maresias, Brasil, August 2007
PIMS Summer School in Probability, Vancouver, July 2005
ALEA Workshop on Random Structures, Luminy, March 2005
PIMS Summer School in Probability, Vancouver, July 2004
IAS/PCMI Summer Session in Computational Complexity, Princeton, July 2001

Refereeing Activities

I have refereed articles for : Annals of Applied Probability, Annals of the Institut Henri Poincaré (B), Electronic Journal of Probability, Canadian Journal of Mathematics, Random Structures and Algorithms, Journal of Combinatorial Theory B, Theoretical Computer Science, Electronic Journal of Combinatorics, Siam Journal on Discrete Mathematics, Journal of Graph Theory, Discrete Mathematics, European Series in Industrial and Applied Mathematics : Probability and Statistics, Journal of Computational Geometry, A of A 2010, Symposium on Discrete Algorithms 2009, LAGOS 2009, LATIN 2008.

Publications and works since 2004

Articles (published and in press)

1. Addario-Berry, L., Griffiths, S., Kang, R. (2010+) Invasion percolation on the Poisson-weighted infinite tree, *Annals of Applied Probability*, to appear.
2. Addario-Berry, L., Broutin, N. (2010+) Total progeny in killed branching random walk. *Probability Theory and Related Fields*, in press.
3. Addario-Berry, L., Broutin, N., Goldschmidt, C. (2010+) The continuum limit of critical random graphs. *Probability Theory and Related Fields*, in press.
4. Addario-Berry, L., Dowden, C. (2011+) Subgraphs of 4-regular planar graphs, *Algorithmica*, in press.
5. Addario-Berry, L., Broutin, N., Devroye, L., Lugosi, G. (2010) On combinatorial testing problems. *Annals of Statistics*, 38 :3063-3092.
6. Addario-Berry, L., Broutin, N., Goldschmidt, C. (2010) Critical random graphs : limiting constructions and distributional properties. *Electronic Journal of Probability*, 15 :741-775
7. Addario-Berry, L., Broutin, N., Lugosi, G. (2010) Effective resistance of random trees, *Annals of Applied Probability* 19 :1092-1107
8. Addario-Berry, L., Kang, R., Müller, T. (2010) Acyclic dominating partitions, *Journal of Graph Theory*, 64 :292–311.
9. Addario-Berry, L., Broutin, N., Lugosi, G. (2010) The longest minimum-weight path in a complete graph, *Combinatorics, Probability and Computing* 19 :1-19.

10. Addario-Berry, L., Esperet, L., Kang, R., McDiarmid, C., Pinlou, A. (2010) Acyclic t -improper colourings of graphs with bounded maximum degree, *Discrete Mathematics* 310 :223-229.
11. Addario-Berry, L., Kennedy, W.S., King, A.D., Li, Z., Reed, B. (2010) Finding the maximum-weight induced k -partite subgraph of an i -triangulated graph, *Discrete Applied Mathematics* 158 :765-770.
12. Addario-Berry, L., Reed, B. (2009) Minima in branching random walks, *Annals of Probability* 37 :1044-1079.
13. Addario-Berry, L., Broutin, N., Reed, B. (2009) Critical random graphs and the structure of a minimum spanning tree, *Random Structures and Algorithms* 35 :271-296. (Publication 23. is the conference version of this paper.)
14. Addario-Berry, L., Reed, B. (2008) Ballot Theorems, Old and New, *Bolyai Society Mathematical Studies Series* 17 :1 9-35.
15. Addario-Berry, L., Chudnovsky, M., Havet, F., Reed, B., Seymour, P. (2008) Bisimplicial vertices in even-hole-free graphs, *Journal of Combinatorial Theory B* 98 :6 1119-1164.
16. Addario-Berry, L., Dalal, K., Reed, B (2008) Degree Constrained Subgraphs, *Discrete Applied Mathematics* 156 :7 1168-1174. (Publication 24. is the conference version of this paper.)
17. Addario-Berry, L., Dalal, K., McDiarmid, C., Reed, B., Thomason, A. (2007) Vertex Colouring Edge Weightings, *Combinatorica* 27 :1 1-12.
18. Addario-Berry, L., Havet, F., Thomasse, S (2007) Paths with two blocks in n -chromatic digraphs, *Journal of Combinatorial Theory B* 97 :4 620-626.
19. Addario-Berry, L., Olver, N., 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.
20. Addario-Berry, L., Aldred, R.L., Dalal, K., Reed, B. (2005) Vertex Colouring Edge Partitions, *Journal of Combinatorial Theory B* 94 :2 237-244.
21. Addario-Berry, L, Chor, B., Hallett, M, Lagergren, J, Panconesi, A., Wareham, T. (2004) Ancestral Maximum Likelihood of Evolutionary trees is Hard, *Journal of Bioinformatics and Computational Biology (JBCB)* 2 :257-271. (Publication 25. is the conference version of this paper.)

Conference Proceedings (published)

22. Addario-Berry, L., Amini, O., Sereni, J.-S., Thomassé, S. (2008) Guarding art galleries : the extra cost for sculptures is linear. *Lecture notes in computer science* 5124 :41-52.
23. Addario-Berry, L., Broutin, N., 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.

24. Addario-Berry, L., Dalal, K., Reed, B (2005) Degree Constrained Subgraphs, *ENDM Proceedings of the 2nd Brazilian Symposium on Graphs, Algorithms and Combinatorics* 19 :257-263.
25. Addario-Berry, L, Chor, B., Hallett, M, Lagergren, J, Panconesi, A., Wareham, T. (2003) Ancestral Maximum Likelihood of Evolutionary trees is Hard, *Proc. of the Workshop on Algorithms in Bioinformatics (WABI '03)*, Budapest, 3 :111-120.

Notes (published)

26. Addario-Berry, L., Reeve, P. (2008) Mental health : maybe human troubles don't fit into set categories, *Nature* 454, 13 August, 2008 :824-824.

Articles (submitted)

27. Addario-Berry, L., Reed, B. (2011+) Ballot theorems for random walks with finite variance.
28. Addario-Berry, L., McDiarmid, C., Reed, B. (2011+) Connectivity of addable monotone graph classes.
29. Addario-Berry, L., Ford, K. (2011+) Poisson–Dirichlet branching random walks.
30. Addario-Berry, L., Devroye, L., Janson, S. (2011+) Sub-Gaussian tail bounds for the width and height of conditioned Galton–Watson trees.
31. Addario-Berry, L., Griffiths, S. (2011+) The spectrum of random lifts.

Articles (in preparation)

32. Addario-Berry, L. (2009+) The convex hull of branching random walk in \mathbb{R}^d , *in preparation*.
33. Addario-Berry, L., Sarkar, A. (2009+) The simple random walk on a random Voronoi tiling, *in preparation*.