



# Ryan R. Martin

## Publications

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IN AROBAT READER, CLICK THE TITLE TO SEE THE PAPER OR [ARXIV] TO READ THE PREPRINT.

### Submitted Publications:

- [48] R.R. Martin, A. Methuku, A. Uzzell, and S. Walker, A simple discharging method for forbidden subposet problems, submitted, 8pp. [\[arXiv\]](#)
- [47] A. Bernshteyn, O. Khormali, R.R. Martin, J. Rollin, D. Rorabaugh, S. Shan, and A. Uzzell, Regular colorings and factors of regular graphs, submitted, 20pp. [\[arXiv\]](#)
- [46] M. Dairyko, M. Ferrara, B. Lidický, R.R. Martin, F. Pfender, and A. Uzzell, Ore and Chvátal-type degree conditions for bootstrap percolation from small sets, submitted, 14pp. [\[arXiv\]](#)
- [45] M. Axenovich, J. Goldwasser, R. Hansen, B. Lidický, R.R. Martin, D. Offner, J. Talbot, and M. Young, Polychromatic colorings on the integers, submitted, 16pp. [\[arXiv\]](#)
- [44] J. Goldwasser, B. Lidický, R.R. Martin, D. Offner, J. Talbot, and M. Young, Polychromatic colorings on the hypercube, submitted, 22pp. [\[arXiv\]](#)

### Publications to appear:

- [43] C. Erbes, M. Ferrara, R.R. Martin, and P. Wenger, Stability of the potential function, submitted, 20pp.
- [42] C. Erbes, M. Ferrara, R.R. Martin, and P. Wenger, On the approximate shape of degree sequences that are not potentially  $H$ -graphic, *J. Comb.*, to appear, 19pp. [\[arXiv\]](#)

### Journal Publications:

- [41] M. Axenovich, J. Goldwasser, R. Hansen, B. Lidický, R.R. Martin, D. Offner, J. Talbot, and M. Young, Polychromatic colorings of complete graphs with respect to 1-,2-factors and Hamiltonian cycles, *J. Graph Theory*, **87** (2018), 660-671. DOI:10.1002/jgt.22180 [Journal Copy] [\[arXiv\]](#)
- [40] M. Ferrara, B. Kay, L. Kramer, R.R. Martin, B. Reiniger, H. Smith, and E. Sullivan, The saturation number of induced subposets of the Boolean lattice, *Discrete Math.*, **340**(10) (2017), 2479–2487. DOI:10.1016/j.disc.2017.06.010 [Journal Copy] [\[arXiv\]](#)
- [39] R.R. Martin, R. Mycroft, and J. Skokan, An asymptotic multipartite Kühn-Osthus theorem, *SIAM J. Discrete Math.*, **31**(3) (2017), 1498–1513. DOI:10.1137/16M1070621 [Journal Copy] [\[arXiv\]](#)
- [38] R.R. Martin and J. Skokan, Asymptotic multipartite version of the Alon-Yuster theorem, *J. Combin. Theory Ser. B*, **127** (2017), 32–52. DOI:10.1016/j.jctb.2017.05.004 [Journal Copy] [\[arXiv\]](#)
- [37] R.R. Martin and S. Walker, A note on the size of  $N$ -free families, *Eur. J. Math.* **3**(2) (2017), 429–432. DOI:10.1007/s40879-017-0139-3 [Journal Copy] [\[arXiv\]](#)
- [36] J. Balogh, B. Csaba, R.R. Martin, and A. Pluhár, On the path separation number of graphs, *Discrete Appl. Math.* **213** (2016), 26–33. DOI:10.1016/j.dam.2016.05.022 [Journal Copy] [\[arXiv\]](#)
- [35] S. Butler, C. Erickson, L. Hogben, K. Hogenson, L. Kramer, R.L. Kramer, J.C.-H. Lin, R.R. Martin, D. Stolee, N. Warnberg, and M. Young, Rainbow arithmetic progressions, *J. Comb.* **7**(4) (2016), 595–626. DOI:10.4310/JOC.2016.v7.n4.a3 [Journal Copy] [\[arXiv\]](#)

# Ryan R. Martin

## Publications (cont.)

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### Journal Publications (cont.):

- [34] R.R. Martin, On the computation of edit distance functions, *Discrete Math.* **338**(2) (2015), 291–305.  
DOI:10.1016/j.disc.2014.09.005 [Journal Copy] [arXiv]
- [33] R.R. Martin and T. McKay, On the edit distance from  $K_{2,t}$ -free graphs, *J. Graph Theory* **77**(2) (2014) 117–143.  
DOI:10.1002/jgt.21777 [Journal Copy] [arXiv extended version]
- [32] M. Axenovich, R.R. Martin, and T. Ueckerdt, Twins in graphs, *European J. Combin.* **39** (2014), 188–197.  
DOI:10.1016/j.ejc.2014.01.007 [Journal Copy] [arXiv]
- [31] R.R. Martin, The edit distance function and symmetrization, *Electron. J. Combin.* **20**(3) (2013), Research Paper 26, 25pp.  
[Journal Copy] [arXiv]
- [30] L. Kramer, R.R. Martin, and M. Young, On diamond-free subposets of the Boolean lattice, *J. Combin. Theory Ser. A* **120**(3) (2013), 545–560.  
DOI:10.1016/j.jcta.2012.11.002 [Journal Copy] [arXiv]
- [29] R.R. Martin and J. Smith, Induced saturation number, *Discrete Math.* **312**(21) (2012), 3096–3106.  
DOI:10.1016/j.disc.2012.06.015 [Journal Copy] [arXiv]
- [28] M. Axenovich, J. Manske, and R.R. Martin,  $Q_2$ -free families in the Boolean lattice, *Order* **29**(1) (2012), 177–191.  
DOI:10.1007/s11083-012-9263-3 [Journal Copy] [arXiv]
- [27] M. Axenovich and R.R. Martin, Multicolor and directed edit distance, *J. Comb.* **2**(4) (2011), 525–556.  
DOI:10.4310/JOC.2011.v2.n4.a4 [Journal Copy] [arXiv]
- [26] A. Csernenszky, R.R. Martin, and A. Pluhár, On the complexity of Chooser-Picker positional games, *Integers* **11** (2011), Research Paper G2, 16pp.  
DOI:10.1515/integ.2011.113 [Journal Copy] [arXiv]
- [25] R.R. Martin and B. Stanton, Lower bounds for identifying codes in some infinite grids, *Electron. J. Combin.* **17**(1) (2010), Research Paper 122, 16pp.  
[Journal Copy] [arXiv]
- [24] T. Hall, L. Hogben, R.R. Martin, and B. Shader, Expected values of parameters associated with the minimum rank of a graph, *Linear Algebra Appl.* **433**(1) (2010), 101–117.  
DOI:10.1016/j.laa.2010.01.036 [Journal Copy] [arXiv]
- [23] R.R. Martin and Y. Zhao, Tiling tripartite graphs with 3-colorable graphs, *Electron. J. Combin.* **16**(1) (2009), Research Paper 109, 16pp.  
[Journal Copy] [arXiv]
- [22] J. Balogh, R.R. Martin, and A. Pluhár, The diameter game, *Random Structures Algorithms* **35**(3) (2009), 369–389.  
DOI:10.1002/rsa.20280 [Journal Copy] [arXiv]
- [21] J. Balogh and R.R. Martin, On Avoider-Enforcer games, *SIAM J. Discrete Math.* **23**(2) (2009), 901–908.  
DOI:10.1137/080721716 [Journal Copy] [arXiv]
- [20] M. Axenovich, A. Kézdy, and R.R. Martin, On the editing distance of graphs, *J. Graph Theory* **58**(2) (2008), 123–138.  
DOI:10.1002/jgt.20296 [Journal Copy] [arXiv]
- [19] J. Balogh and R.R. Martin, Edit distance and its computation, *Electron. J. Combin.* **15**(1) (2008), Research Paper 20, 27pp.  
[Journal Copy] [arXiv]

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## Publications (cont.)

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### Journal Publications (cont.):

- [18] M. Axenovich and R.R. Martin, Avoiding rainbow induced subgraphs in vertex-colorings, *Electron. J. Combin.* **15**(1) (2008), Research Paper 12, 23pp. [Journal Copy] [arXiv]
- [17] R.R. Martin and E. Szemerédi, Quadripartite version of the Hajnal-Szemerédi theorem, *Discrete Math.* **308**(19) (2008), 4337–4360. DOI:10.1016/j.disc.2007.08.019 [Journal Copy]
- [16] M. Axenovich and R.R. Martin, On weighted Ramsey numbers, *Australas. J. Combin.* **38** (2007), 179–194. [Journal Copy] [arXiv]
- [15] A. Frieze, R.R. Martin, J. Moncel, M. Ruzinkó, and C. Smyth, Codes identifying sets of vertices in random networks, *Discrete Math.* **307**(10) (2007), 1094–1107. DOI: 10.1016/j.disc.2006.07.041 [Journal Copy]
- [14] T. Bohman, A. Frieze, R.R. Martin, M. Ruzinkó, and C. Smyth, On randomly generated intersecting hypergraphs II, *Random Structures Algorithms* **30**(1) (2007), 17–34. DOI:10.1002/rsa.20152 [Journal Copy] [arXiv]
- [13] M. Axenovich and R.R. Martin, Sub-Ramsey numbers for arithmetic progressions, *Graphs Combin.* **22**(3) (2006), 297–309. DOI:10.1007/s00373-006-0663-2 [Journal Copy] [arXiv]
- [12] M. Axenovich and R.R. Martin, A note on short cycles in a hypercube, *Discrete Math.* **306**(18) (2006), 2212–2218. DOI:10.1016/j.disc.2006.05.008 [Journal Copy] [arXiv]
- [11] M. Axenovich and R.R. Martin, On the strong chromatic number of graphs, *SIAM J. Discrete Math.* **20**(3) (2006), 741–747. DOI:10.1137/050633056 [Journal Copy] [arXiv]
- [10] M. Axenovich and R.R. Martin, Avoiding patterns in matrices via a small number of changes, *SIAM J. Discrete Math.*, **20**(1) (2006), 49–54. DOI:10.1137/S0895480104445150 [Journal Copy] [arXiv]
- [9] R.R. Martin, A note on a conjecture of Gyárfás, *Ars Combin.* **79** (2006), 311–317. [arXiv]
- [8] T. Bohman, A. Frieze, M. Krivelevich, and R.R. Martin, Adding random edges to dense graphs, *Random Structures Algorithms* **24**(2) (2004), 105–117. DOI:10.1002/rsa.10112 [Journal Copy] [arXiv]
- [7] A. Frieze, M. Krivelevich, and R.R. Martin, The emergence of a giant component in random subgraphs of pseudo-random graphs, *Random Structures Algorithms* **24**(1) (2004), 42–50. DOI:10.1002/rsa.10100 [Journal Copy] [arXiv]
- [6] T. Bohman, C. Cooper, A. Frieze, R.R. Martin, and M. Ruzinkó, On randomly generated intersecting hypergraphs, *Electron. J. Combin.* **10** (2003), Research Paper 29, 10pp. [Journal Copy] [arXiv]
- [5] T. Bohman and R.R. Martin, A note on  $G$ -intersecting families, *Discrete Math.* **260** (2003), no. 1-3, 183–188. DOI:10.1016/s0012-365x(02)00761-6 [Journal Copy] [arXiv]
- [4] T. Bohman, A. Frieze, and R.R. Martin, How many random edges make a dense graph hamiltonian?, *Random Structures Algorithms* **22**(1) (2003), 33–42. DOI:10.1007/bf02579348 [Journal Copy] [arXiv]
- [3] Cs. Magyar and R.R. Martin, Tripartite version of the Corrádi-Hajnal theorem, *Discrete Math.* **254** (2002), no. 1-3, 289–308. DOI:10.1016/S0012-365X(01)00373-9 [Journal Copy] [arXiv]

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## Publications (cont.)

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### Journal publications (cont.):

- [2] F. Lazebnik, W. Li, and R.R. Martin, Random walks on rooted trees, *Bull. Inst. Combin. Appl.* **22** (1998), 59–66. [PrePrint]
- [1] J. Benashski, R.R. Martin, J. Moore, and L. Traldi, On the  $\beta$ -invariant for graphs, Proceedings of the Twenty-sixth Southeastern International Conference on Combinatorics, Graph Theory and Computing (Boca Raton, FL, 1995). *Congr. Numer.* **109** (1995), 211–221. [PrePrint]

### In Progress:

- J. Kim, R.R. Martin, T. Masařík, W. Shull, H. Smith, A. Uzzell, and Z. Wang, Local dimension, in progress, 12pp.
- Zh. Berikkyzy, R.R. Martin, and C. Peck, On the edit distance of powers of cycles, under revision, 21pp. [arXiv]

### Book Chapter:

- R.R. Martin, The edit distance in graphs: methods, results and generalizations, *Recent Trends in Combinatorics*, 31–62, IMA Vol. Math. Appl., **159**, Springer, Cham, 2016.  
DOI:10.1007/978-3-319-24298-9\_2 [Chapter Copy] [PrePrint] [ERRATA]

### Extended Abstracts:

- R.R. Martin (based on joint work with J. Balogh and A. Pluhár), The diameter game (extended abstract), in *Oberwolfach Reports* **4**(2) (2007) 1073–1114. [PrePrint]
- A. Frieze, R.R. Martin, J. Moncel, M. Ruszinkó, and C. Smyth, Identifying codes in random networks (extended abstract), *Proceedings of the 2005 IEEE International Symposium on Information Theory (Adelaide, Australia, 2005)* (2005), 1461–1467. [PrePrint]
- R.R. Martin (based on joint work with Cs. Magyar), Tripartite version of the Corrádi-Hajnal Theorem (extended abstract), *Paul Erdős and his mathematics (Budapest, 1999)*, 166–168, *János Bolyai Math. Soc., Budapest*, 1999.

### arXiv Manuscript:

- K. Hogenson, R.R. Martin, and Y. Zhao, Tiling tripartite graphs with 3-colorable graphs: The extreme case, submitted, 27pp. [arXiv]
- M. Axenovich and R.R. Martin, A version of Szemerédi’s regularity lemma for multicolored graphs and directed graphs that is suitable for induced graphs, 2011. [arXiv]

### Dissertations:

- On graph packing, induced subgraphs and intersecting hypergraphs, Ph. D. dissertation, Rutgers University, October 2000, 159pp. [Thesis]
- Minimum expected time of random walks on rooted trees, Senior thesis, University of Delaware, May 1995, 63pp.

# Ryan R. Martin

## Talks & Conferences

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- Invited Talks**
- “TBA”, First Southwestern German Workshop on Graph Theory, Thomashof, near Karlsruhe, Germany, August 27-31, 2018.
  - “TBA,” 2018 Colloquia in Combinatorics, Queen Mary, University of London and London School of Economics and Political Science, London, UK, May 09-10, 2018.
  - “Three lectures on the edit distance problem,” 5th Lake Michigan Workshop on Combinatorics and Graph Theory, Notre Dame University, South Bend, IN, April 21-22, 2018.
  - “The saturation number of induced subposets of the Boolean lattice,” Seminar, Karlsruhe Institute of Technology, Karlsruhe, Germany, June 22, 2017.
  - “The saturation number of induced subposets of the Boolean lattice,” Seminar on Combinatorics, Games and Optimisation, London School of Economics, London, England, UK, June 15, 2017.
  - “The saturation number of induced subposets of the Boolean lattice,” Special Session on Extremal Problems in Graphs, Hypergraphs and Other Combinatorial Structures, AMS Central Section Meeting (#1127), Bloomington, IN, April 02, 2017.
  - “Methods in computing the edit distance function,” Combinatorics seminar, Department of Mathematics, University of South Carolina, Columbia, SC, February 17, 2017.
  - “Introduction to the edit distance in graphs,” Superseminar, Department of Mathematics, University of South Carolina, Columbia, SC, February 16, 2017.
  - “An asymptotic multipartite Kühn-Osthus theorem,” Special Session on Graphs, Hypergraphs, and Set Systems, AMS Southeastern Section Meeting (#1124), Raleigh, NC, November 13, 2016.
  - “An asymptotic multipartite Kühn-Osthus theorem,” Special Session on Extremal Combinatorics, AMS Central Section Meeting (#1123), Minneapolis, MN, October 29, 2016.
  - “An asymptotic multipartite Kühn-Osthus theorem,” Special Session on New Developments in Graphs and Hypergraphs, AMS Eastern Section Meeting (#1121), Brunswick, ME, September 24, 2016.
  - “The edit distance of powers of cycles,” Minisymposium on Extremal Combinatorics, 2016 SIAM Conference on Discrete Mathematics, Atlanta, GA, June 06, 2016.
  - “The edit distance of powers of cycles,” Seminar, Department of Combinatorics and Optimization, University of Waterloo, Waterloo, ON, Canada, May 03, 2016.
  - “The edit distance of powers of cycles,” Special Session on Probabilistic and Extremal Combinatorics, AMS Central Section Meeting (#1120), Fargo, ND, April 16, 2016.
  - “Rainbow arithmetic progressions,” Graph Theory and Combinatorics Seminar, Department of Mathematics, University of Illinois at Urbana-Champaign, Urbana, IL, March 07, 2016.
  - “The small world problem: Six degrees of graph theory,” Mathematics Seminar, University of Wisconsin-La Crosse, Lacrosse, WI, November 23, 2015.
  - “The edit distance of powers of cycles,” Special Session on Probabilistic Combinatorics, AMS Southeastern Section Meeting (#1113), Memphis, TN, October 18, 2015.



# Ryan R. Martin

## Talks & Conferences (cont.)

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### Invited Talks (cont.)

- “Diamonds are forever,” Connections in Discrete Mathematics: A celebration of the work of Ron Graham, Vancouver, BC, Canada, June 17, 2015.
- “Recent progress on Diamond-Free families,” Seminar on Discrete Mathematics and Game Theory London School of Economics and Political Science, London, UK, May 15, 2015.
- “Recent progress on Diamond-Free families,” Combinatorics Seminar, University of Birmingham, Birmingham, UK, May 11, 2015.
- “Diamonds are forever,” Special Session on Extremal and Structural Graph Theory, AMS Western Section Meeting (#1105), Las Vegas, NV, April 19, 2015.
- “A new upper bound for the size of diamond-free families,” Combinatorics Seminar, Emory University, Atlanta, GA, March 23, 2015.
- “Recent progress on diamond-free families (revised title),” Special Session on Extremal Graph Theory: Hypergraphs, Directed Graphs, and Other Generalizations, AMS Central Section Meeting (#1108), East Lansing, MI, March 15, 2015.
- “On the edit distance in graphs,” IMA Annual Program Seminar, Thematic Year on Discrete Structures, Institute for Mathematics and its Applications, Minneapolis, MN, December 04, 2014.
- “Recent progress on diamond-free families,” Special Session on Recent Developments in Graph Theory and Hypergraph Theory, AMS Southeastern Section Meeting (#1105), Greensboro, NC, November 08, 2014.
- “Recent progress on diamond-free families,” Special Session on Problem Solving in Extremal Combinatorics and Combinatorial Geometry, AMS Central Section Meeting (#1102), Eau Claire, WI, September 20, 2014.
- “Recent progress on diamond-free families,” Posets Minisymposium, 2014 SIAM Conference on Discrete Mathematics (DM14), Minneapolis, MN, June 16, 2014.
- “Multipartite version of the Alon-Yuster theorem,” Discrete Mathematics Seminar, University of Delaware, Newark, DE, November 26, 2013.
- “Multipartite version of the Alon-Yuster theorem,” Atlanta Lecture Series X, Emory University, Atlanta, GA, November 02, 2013.
- “Diamond-free families of the Boolean lattice,” Special Session on Partially Ordered Sets, AMS Southeastern Section Meeting (#1092), Louisville, KY, October 05, 2013.
- “Multipartite version of the Alon-Yuster theorem,” Seminar, University of Szeged, Szeged, Hungary, July 08, 2013.
- “Recent results on the edit distance in graphs,” Seminar on Discrete Mathematics and Game Theory, London School of Economics and Political Science, London, England, UK, June 27, 2013.
- “Multipartite version of the Alon-Yuster theorem,” Combinatorics Seminar, University of Birmingham, Birmingham, England, UK, June 24, 2013.
- “Diamond-free families of the Boolean lattice,” Discrete Mathematics Seminar, University of Delaware, Newark, DE, March 19, 2013.
- “Diamond-free families of the Boolean lattice,” Special Session on Extremal Graph Theory, AMS Central Section Meeting (#1084), Akron, OH, October 21, 2012.
- “Diamond-free families of the Boolean lattice,” Combinatorics Parallel Session, International Conference on Advances in Interdisciplinary Statistics and Combinatorics, Greensboro, NC, October 07, 2012.

# Ryan R. Martin

## Talks & Conferences (cont.)

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### Invited Talks (cont.)

- “Multicolor and directed edit distance,” Graph Coloring Minisymposium, 2012 SIAM Conference on Discrete Mathematics (DM12), Halifax, Nova Scotia, Canada, June 20, 2012.
- “Multipartite version of the Alon-Yuster theorem,” Extremal Graph Theory Minisymposium, 2012 SIAM Conference on Discrete Mathematics (DM12), Halifax, Nova Scotia, Canada, June 20, 2012.
- “Forbidden posets, the Boolean lattice and flag algebras,” Informatics Colloquium, Department of Informatics, Karlsruhe Institut für Technologie, Karlsruhe, Germany, May 22, 2012.
- “Forbidden posets, the Boolean lattice and flag algebras,” Combinatorics and Game Theory Seminar, Department of Mathematics, London School of Economics and Political Science, London, England, UK, May 18, 2012.
- “Induced Saturation Number,” Discrete Mathematics Seminar, Department of Mathematical and Statistical Sciences, University of Colorado-Denver, Denver, CO, April 09, 2012.
- “On diamond-free subsets of the Boolean lattice,” Algebra and Logic Seminar, Department of Mathematics, University of South Carolina, Columbia, SC, March 16, 2012.
- “The small world problem: Six degrees of graph theory,” MATH/CS Colloquium, Department of Mathematics and Computer Science, The Citadel, Charleston, SC, March 13, 2012.
- “On the edit distance from  $K_{2,t}$ -free graphs,” Special Section on Extremal and Probabilistic Combinatorics, AMS Central Section Meeting (#1074), Lincoln, NE, October 15, 2011.
- “Induced saturation number,” Special Section on Extremal Combinatorics, AMS Southeastern Section Meeting (#1073), Winston-Salem, NC, September 25, 2011.
- “Recent results on the edit distance of graphs,” Seminar, Department of Mathematics, University of British Columbia, Vancouver, BC, Canada, July 26, 2011.
- “Induced saturation number,” Special Section on Extremal Combinatorics, AMS Western Section Meeting (#1071), Las Vegas, NV, May 01, 2011.
- “Recent results on the edit distance of graphs,” Discrete Mathematics Seminar, Department of Mathematics, University of South Carolina, Columbia, SC, March 16, 2011.
- “Expected value of the minimum rank of a graph,” Seminar class talk, Department of Mathematics, University of Illinois at Urbana-Champaign, Urbana, IL, November 10, 2010.
- “ $Q_2$ -free families in the Boolean lattice,” Graph Theory and Combinatorics Seminar, Department of Mathematics, University of Illinois at Urbana-Champaign, Urbana, IL, November 09, 2010.
- “Recent results on the edit distance of graphs,” Special Section on Graph Theory, AMS Southeastern Section Meeting (#1065), Richmond, VA, November 06, 2010.
- “Vertex identifying codes in infinite grids,” Discrete Mathematics Seminar, Department of Mathematics, Virginia Commonwealth University, Richmond, VA, November 04, 2010.
- “The small world problem: Six degrees of graph theory,” Joint Mathematics Colloquium, Millersville University/Franklin & Marshall College, Lancaster, PA, November 02, 2010.



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## Talks & Conferences (cont.)

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### Invited Talks (cont.)

- “Recent results on the edit distance of graphs,” Combinatorics Seminar, Department of Pure Mathematics and Mathematical Statistics, University of Cambridge, Cambridge, England, UK, October 14, 2010.
- “Recent results on the edit distance of graphs,” Seminar on Discrete Mathematics and Game Theory, Department of Mathematics, London School of Economics and Political Science, London, England, UK, October 07, 2010.
- “Vertex identifying codes in infinite grids,” Discrete Geometry and Combinatorics Seminar, Department of Mathematics, University College London, London, England, UK, October 06, 2010.
- “Recent results on the edit distance of graphs,” Combinatorics Seminar, School of Mathematics, University of Birmingham, Birmingham, England, UK, October 04, 2010.
- “ $Q_2$ -free families in the Boolean lattice,” Combinatorics Seminar, School of Mathematical Sciences, Queen Mary College, University of London, London, England, UK, October 01, 2010.
- “Recent results on the edit distance of graphs,” Discrete Mathematics Seminar, Department of Mathematics, University of Nebraska – Lincoln, Lincoln, NE, August 31, 2010.
- “Computing the edit distance function,” Extremal Graph Theory Minisymposium, 2010 SIAM Conference on Discrete Mathematics, Austin, TX, June 17, 2010.
- “The small world problem: Six degrees of graph theory,” Research Seminar, Mathematics, Statistics, and Computer Science Department, St. Olaf College, Northfield, MN, May 04, 2010.
- “Tiling in Multipartite Graphs,” SIAM Minisymposium on Graph Theory, 2010 Joint Mathematics Meetings (#1056), San Francisco, CA, January 15, 2010.
- “Tiling in Multipartite Graphs,” Discrete Math Seminar, Texas State University, San Marcos, TX, November 13, 2009.
- “The small world problem: Six degrees of graph theory,” Convocation Series, Illinois College, Jacksonville, IL, September 07, 2009.
- “Expected value of the minimum rank of a graph,” Graph Theory and Combinatorics Seminar, Department of Mathematics, University of Illinois at Urbana-Champaign, Urbana, IL, May 19, 2009.
- “On Avoider-Enforcer games,” 33rd SIAM Southeastern-Atlantic Section Conference, Columbia, SC, April 04, 2009.
- “On Avoider-Enforcer games,” Special Session on Probabilistic and Extremal Combinatorics, AMS Central Section Meeting (#1047), Urbana, IL, March 28, 2009.
- “The small world problem: Six degrees of graph theory,” Department of Mathematics and Computer Science Seminar, Central College, Pella, IA, November 18, 2008.
- “The small world problem: Six degrees of graph theory,” Department of Mathematics and Computer Science Seminar, Macalester College, St. Paul, MN, November 11, 2008.
- “On the edit distance function,” International Conference on Interdisciplinary Mathematical and Statistical Techniques, University of Memphis, Memphis, TN, May 18, 2008.
- “Tiling in multipartite graphs,” ACO (Algorithms, Combinatorics and Optimization) Seminar, Carnegie Mellon University, Pittsburgh, PA, May 01, 2008.

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## Talks & Conferences (cont.)

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### Invited Talks (cont.)

- “Tiling in multipartite graphs,” Graph Theory and Combinatorics Seminar, Department of Mathematics, University of Illinois at Urbana-Champaign, Urbana, IL, April 29, 2008.
- “The edit distance function,” Special Session on Graph Theory, AMS Central Section Meeting (#1038), Bloomington, IN, April 06, 2008.
- “Computing edit distance,” Applied mathematics seminar, Department of Applied Mathematics, Illinois Institute of Technology, Chicago, IL, November 20, 2007.
- “The edit distance in graphs,” Applied mathematics colloquium, Department of Applied Mathematics, Illinois Institute of Technology, Chicago, IL, November 19, 2007.
- “The edit distance in graphs,” Special Session on Extremal and Probabilistic Combinatorics, AMS Central Section Meeting (#1030), Chicago, IL, October 05-06, 2007.
- “On the edit distance in graphs,” Discrete Mathematics and Algebra Seminar, Department of Mathematical Sciences, University of Delaware, Newark, DE, May 11, 2007.
- “The diameter game,” Miniworkshop: Positional Games, 0715c, Mathematisches Forschungsinstitut Oberwolfach, Germany, April 08-14, 2007.
- “The diameter game,” Special Session on Graph Theory, AMS Central Section Meeting (#1025), Oxford, OH, March 16-17, 2007.
- “The diameter game,” Special Session on Extremal and Probabilistic Combinatorics, AMS Southeastern Section Meeting (#1022), Fayetteville, AR, November 03-04, 2006.
- “On the editing distance in graphs,” Combinatorics Seminar, University of Illinois at Urbana-Champaign, Urbana, IL, January 24, 2006.
- “Vertex identifying codes and the random graph,” Computer Science Department Colloquium, Iowa City, IA, November 04, 2005.
- “Vertex identifying codes and the random graph,” Discrete Mathematics and Algebra Seminar, Department of Mathematical Sciences, University of Delaware, Newark, DE, May 15, 2005.
- “Online intersecting hypergraphs,” Mathematics Seminar, Department of Mathematics, Statistics and Computer Science, University of Illinois at Chicago, Chicago, IL, March 16, 2005.
- “Six degrees of graph theory: Kevin Bacon, Paul Erdős, William McKinley and me,” Mathematics Seminar, Central College, February 01, 2005.
- “It’s raining hyperedges: Online intersecting hypergraphs beyond the threshold,” Special Session on Extremal Combinatorics, AMS Central Section Meeting (#1001), Evanston, IL, October 23-24, 2004.
- “On the editing distance in graphs,” Mathematics seminar, Department of Mathematics, Statistics and Computer Science, University of Illinois at Chicago, Chicago, IL, March 17, 2004.
- “The regularity lemma, the blow-up lemma and a conjecture of Corrádi and Hajnal,” Discrete Mathematics and Algebra Seminar, Department of Mathematical Sciences, University of Delaware, Newark, DE, May 1999.

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## Talks & Conferences (cont.)

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### Invited Workshops

Workshop on Order and Geometry, Gultowy Palace near Poznań, Poland, September 19-23, 2016.

Institute for Mathematics and its Applications (IMA) Thematic Year on Discrete Structures, (Scholar in-residence September 01, 2014-May 15, 2015.)

- Probabilistic and Extremal Combinatorics [Invited Participant], September 08-12, 2014.
- Additive and Analytic Combinatorics, September 29-October 03, 2014.
- Geometric and Enumerative Combinatorics, November 10-14, 2014.
- Convexity and Optimization: Theory and Applications, February 23-27, 2015.
- The Power of Randomness in Computation, March 16-20, 2015.
- Information Theory and Concentration Phenomena, April 13-17, 2015.
- Analytical Tools in Probability and Applications, April 27-May 01, 2015.

Polychromatic Colorings of the Hypercube at Institute for Computational and Experimental Research in Mathematics (ICERM), Providence, RI, March 26-30, 2014.

NIMbios workshop on Animal Social Networks, Knoxville, TN, March 06-08, 2014.

Theory and Applications of Matrices Described by Patterns, Banff International Research Station (BIRS) workshop, Banff, Alberta, Canada, January 31-February 05, 2010.

### Visits and Research Activity

Graduate Research Workshop in Combinatorics, Denver, CO, July 18-22, 2017.

Poset Saturation: Followup workshop, Denver, CO, June 10-16, 2016.

Graduate Research Workshop in Combinatorics, Laramie, WY, July 25-29, 2016.

Polychromatic Colorings of the Hypercube: Followup workshop, Ames, IA, September 14-18, 2015.

Graduate Research Workshop in Combinatorics, Ames, IA, June 01-12, 2015.

Graduate Research Workshop in Combinatorics, Denver, CO, August 05-09, 2014.

### Conferences Organized

ILAS 2017: Connections, 2017 Meeting of the International Linear Algebra Society, Ames, IA, July 24-28, 2017. Local organizing committee.

Special Session on Discrete Structures: Analysis and Applications (IMA Reunion), American Mathematical Society (AMS) Central Section Meeting (#1123), Minneapolis, MN, October 28-30, 2016. Co-organized with L. Hogben and E. Werner.

Special Session on Extremal Combinatorics, American Mathematical Society (AMS) Central Section Meeting (#1090), Ames, IA, April 27-28, 2013. Co-organized with S. Butler. Also on local organizing committee.

Midwestern Graph Theory (MIGHTY) LIII, Ames, IA, September 21-22, 2012. Co-organized with S. Butler and M. Young.

Special Session on Extremal Combinatorics, American Mathematical Society (AMS) Western Section Meeting (#1071), Las Vegas, NV, April 31-May 1, 2011. Co-organized with J. Balogh.

Special Session on Probabilistic and Extremal Combinatorics, American Mathematical Society (AMS) Central Section Meeting (#1058), St. Paul, MN, April 10-11, 2010. Co-organized with M. Axenovich.

# Ryan R. Martin

## Talks & Conferences (cont.)

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### Contributed Talks

- “An asymptotic multipartite Kühn-Osthus theorem,” Algebraic and Extremal Graph Theory, University of Delaware, Newark, DE, August 08, 2017.
- “Expected value of the minimum rank of a graph,” 22nd Cumberland Conference on Combinatorics, Graph Theory and Computing, Western Kentucky University, Bowling Green, KY, May 21, 2009.
- “On the edit distance function for graphs,” Fete of Combinatorics and Computer Science, Organized by the Rényi Institute, Keszthely, Hungary, August 12, 2008.
- “The edit distance in graphs,” (Your Regular) Workshop on Extremal Graphs and Hypergraphs, Carnegie Mellon University, Pittsburgh, PA, May 05, 2007.
- “Recent results on packing problems in multipartite graphs,” Horizons of Combinatorics, Balatonalmádi, Hungary, July 19, 2006.
- “Vertex identifying codes and the random graph,” MIDwestern Graph Theory (MIGHTY) XLII, Marion, OH, April 29, 2006.
- “Vertex identifying codes and the random graph,” Mathematical Association of America (MAA)-Iowa conference, Ames, IA, April 07, 2006.
- “The editing distance in graphs,” Rocky Mountain Discrete Mathematics Days, Laramie, WY, August 02, 2005.
- “Vertex identifying codes and the random graph,” WaterMellon conference, Pittsburgh, PA, May 21, 2005.
- “Vertex identifying codes and the random graph,” Brualdi-fest, Madison, WI, April 30, 2005.
- “Six degrees of graph theory: Kevin Bacon, Paul Erdős, William McKinley and me,” Mathematical Association of America (MAA)-Iowa conference, Pella, IA, April 17, 2004.
- “On the editing distance in graphs,” Conference on extremal combinatorics honoring 200 years of Peter Frankl, Zoltán Füredi, Ervin Győri and János Pach, Rényi Institute, Budapest, Hungary, April 05, 2004.
- “You’ve got Erdős-Ko-Radó: Intersecting hypergraphs online,” MIDwestern Graph Theory (MIGHTY) XXXVII, Valparaiso, IN, September 20, 2003.
- “Antiramsey Numbers,” AMS Central Section Meeting (#985), Bloomington, IN, April 05, 2003.
- “How many random edges make a dense graph Hamiltonian?,” 2012 SIAM Conference on Discrete Mathematics, San Diego, CA, August 14, 2002.
- “On the  $\beta$ -invariant for graphs,” Southeastern International Conference on Combinatorics, Graph Theory and Computing, Boca Raton, FL, March 1995.

# Ryan R. Martin

## Talks & Conferences (cont.)

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- Other Conferences Attended**
- ILAS 2017: Connections, 2017 Meeting of the International Linear Algebra Society, Iowa State University, Ames, IA, July 24-28, 2017.
  - 2015 Meeting of the Iowa Section of the Mathematical Association of America, Graceland University, Lamoni, IA, October 03, 2015.
  - 2015 Colloquia in Combinatorics, Queen Mary, University of London and London School of Economics and Political Science, London, UK, May 13-14, 2015.
  - 2013 Colloquia in Combinatorics, Queen Mary, University of London and London School of Economics and Political Science, London, UK, May 16-17, 2013.
  - EXCILL 2: EXtremal Combinatorics at ILLinois, University of Illinois at Urbana-Champaign, Urbana, IL, March 16-18, 2013.
  - Third Abel Conference: A Mathematical Celebration of Endre Szemerédi, Institute for Mathematics and its Applications, Minneapolis, MN, November 29-December 01, 2012.
  - AMS Central Section Meeting (#1069), University of Iowa, Iowa City, IA, March 18-20, 2011.
  - Szemerédi70: A conference in honor of the 70th birthday of Endre Szemerédi, Organized by the Rényi Institute and held at the Gólyavár at Eötvös Lóránd University, Budapest, Hungary, August 02-06, 2010.
  - Building Bridges: A conference on mathematics and computer science in honor of Laci Lovász, Partially organized by the Rényi Institute and held at the Gólyavár at Eötvös Lóránd University, Budapest, Hungary, August 05-09, 2008.
  - New Directions in Algorithms, Combinatorics and Optimization, Georgia Institute of Technology, Atlanta, GA, May 05-09, 2008.
  - Random Combinatorial Structures, University of Nebraska-Lincoln, Lincoln, NE, April 20-22, 2007.
  - EXCILL: EXtremal Combinatorics at ILLinois, University of Illinois at Urbana-Champaign, Urbana, IL, November 18-20, 2006.
  - Horizons of Combinatorics (Summer School), Rényi Institute, Budapest, Hungary, July 10-14, 2006.
  - FriezeFest, Carnegie Mellon University, Pittsburgh, PA, October 21-22, 2005.
  - Paul Erdős and his Mathematics, Rényi Institute, Hungarian Academy of Sciences, Budapest, Hungary, July 1999.
  - Teaching-learning conference, Rutgers University, New Brunswick, NJ, January 1998.
- Selected Long-Term Visitors**
- Dániel Gerbner, Abhishek Methuku, and Andrew Uzzell, November 20-28, 2017.
  - Heather Smith, March 28-31, 2017.
  - Xavier Pérez-Giménez, February 08-10, 2017.
  - Richard Mycroft, March 08-18, 2014.
  - Jozef Skokan, April 26-May 02, 2013.

# Ryan R. Martin

## Talks & Conferences (cont.)

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- Seminar Talks**
- “The local dimension of posets and a probabilistic construction,” **ISU** Probability Seminar, December 04, 2017.
  - “An asymptotic multipartite Kühn-Osthus theorem,” **ISU** Discrete Mathematics Seminar, October 25, 2017.
  - “Diamonds are forever,” **ISU** Discrete Mathematics Seminar, January 26, 2015.
  - “Path separation number in graphs,” **ISU** MECS Interdisciplinary Seminar, February 24, 2014.
  - “Can a Venn diagram be made with 4 circles?,” *Π M E* Math Club talk, **ISU**, February 23, 2014.
  - “Vertex-identifying codes in graphs,” **ISU** MECS Interdisciplinary Seminar, February 17, 2014.
  - “Matrix version of Szemerédi’s regularity lemma,” **ISU** Discrete Mathematics Seminar, April 09, 2013.
  - “More on vertex identifying codes and related parameters,” **ISU** Discrete Mathematics Seminar, February 07, 2012.
  - “Vertex identifying codes and random graphs,” Electrical and Computer Engineering Department Faculty Seminar, February 06, 2012.
  - “Fractional version of the multipartite Hajnal-Szemerédi theorem,” **ISU** Discrete Mathematics Seminar, November 08, 2011.
  - “Random partitions of regular pairs,” **ISU** Probability Seminar, November 07, 2011.
  - “Using localization to compute edit distance II,” **ISU** Discrete Mathematics Seminar, January 25, 2011.
  - “Using localization to compute edit distance I,” **ISU** Discrete Mathematics Seminar, January 18, 2011.
  - “On the structure of almost all graphs in a hereditary property,” **ISU** Probability Seminar, December 06, 2010.
  - “Entropy and counting,” **ISU** Discrete Mathematics Seminar, April 13, 2010.
  - “The entropy method and the number of independent sets in a regular graph,” **ISU** Discrete Mathematics Seminar, March 23, 2010.
  - “The Hoffman-Singleton theorem,” **ISU** Discrete Mathematics Seminar, January 19, 2010.
  - “Tiling on multipartite graphs,” **ISU** Discrete Mathematics Seminar, September 01, 2009.
  - “On the minimum rank of graphs,” **ISU** Discrete Mathematics Seminar, April 14, 2009.
  - “On Avoider-Enforcer games,” **ISU** Discrete Mathematics Seminar, March 31, 2009.
  - “The edit distance in graphs,” **ISU** Mathematics Department Colloquium, October 27, 2008.
  - “Counting the number of regions formed by circles in the plane,” *Π M E* Math Club talk, **ISU**, October 19, 2008.
  - “The vertex Ramsey problem,” **ISU** Discrete Mathematics Seminar, February 19, 2008.



# Ryan R. Martin

## Talks and Conferences (cont.)

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- Seminar Talks (cont.)**
- “The edit distance in graphs,” **ISU** Graduate Student Seminar, October 19, 2007.
  - “Edit distance in graphs: Colored regularity graphs,” **ISU** discrete math seminar, October 02, 2007.
  - “Some intriguing open problems regarding positional games,” **ISU** discrete math seminar, April 17, 2007.
  - “Beauty is rare: The Hoffman-Singleton theorem,” **ISU** discrete math seminar, February 06, 2007.
  - “The diameter game,” **ISU** Discrete Mathematics Seminar, November 14, 2006.
  - “Generalized tic-tac-toe: Introduction to Positional Games and probabilistic intuition,” **ISU** Discrete Mathematics Seminar, November 07, 2006.
  - “Introduction to expander graphs,” **ISU** Discrete Mathematics Seminar, April 17, 2006.
  - “Smoothed analysis of graphs,” **ISU** Discrete Mathematics Seminar, March 20, 2006.
  - “On the editing distance in graphs,” **ISU** discrete math seminar, March 10, 2006.
  - “An application of Szemerédi’s regularity lemma,” **ISU** discrete math seminar, November 01 & 08, 2005.
  - “The small world problem and so much more!  $6^{6^6}$  degrees of graph theory,” **ISU** Graduate Student Seminar, October 19, 2005.
  - “The small world problem: Kevin Bacon, Paul Erdős, William McKinley, and me – 5 degrees of graph theory,” **ISU** Summer Seminar Series (Related to the REU), July 14, 2005.
  - “Identification codes and superimposed codes,” **ISU** Discrete Mathematics Seminar, February 10 & 17, 2005.
  - “Report on the extremal combinatorics session of the Central Section Meeting of the AMS,” **ISU** Discrete Math/Theory of Computing Seminar, October 29, 2004 (with M. Axenovich, A. Wangsness).
  - “Vertex identification codes in graphs,” **ISU** Discrete Math/Theory of Computing Seminar, October 15, 2004.
  - “Six degrees of graph theory: Kevin Bacon, Paul Erdős, William McKinley and me,” **ISU** Graduate Student Seminar, October 06, 2004.
  - “Online intersecting hypergraphs II,” **ISU** Discrete Math/Theory of Computing Seminar, August 27, 2004.
  - “On the editing distance in graphs, part II,” **ISU** Discrete Math/Theory of Computing Seminar, February 06, 2004.
  - “You’ve got Erdős-Ko-Radó: Intersecting hypergraphs online,” **ISU** Combinatorics/Algebra Seminar, November 10, 2003.
  - “Report from the 37th Midwestern Graph Theory Conference,” **ISU** Combinatorics/Algebra Seminar, September 29, 2003 (with M. Axenovich).
  - “Six degrees of graph theory: Kevin Bacon, Paul Erdős, William McKinley and me,” **CMU** mathematics undergraduate seminar, February, 2003.
  - “The regularity lemma,” **CMU** Mathematics Colloquium, March 2002.
  - “The Shannon capacity and Ramsey theory,” **RU** Graduate Student Seminar, December 1998.

# Ryan R. Martin

## Courses Taught

ISU:	Semester and Year	Course #: Course Title	Total Enrollment
	S 2018	M606: Enumerative Combinatorics and Partially Ordered Sets	–
	F 2017	M317 B: Linear Algebra	19
		M317 C: Linear Algebra	21
	S 2017	M606: Enumerative Combinatorics and Partially Ordered Sets	16
	F 2016	M165 29: Calculus I	33
		M304: Introductory Combinatorics	17
	S 2016	M608: Extremal Graph Theory	6
	F 2015	M166 15-26: Calculus II	290
		M492: Undergraduate Seminar	14
	S 2015	On Leave: Institute for Mathematics and its Applications (IMA)	
	F 2014	On Leave: Institute for Mathematics and its Applications (IMA)	
	S 2014	M492: Undergraduate Seminar	22
		M608: Extremal Graph Theory	6
	F 2013	M166 B1-D2: Calculus II	167
	S 2013	M166 A-F,D1-H1,J1: Calculus II	336
	F 2012	M166 F1-F4,G1-G4,J1-J4: Calculus II	177
		M566X: Discrete Optimization	7
	S 2012	M608: Extremal Graph Theory	6
	F 2011	M166 G: Calculus II	317
		M166 B: Calculus II	188
	S 2011	M606: Enumerative Combinatorics and Partially Ordered Sets	6
	S 2010	M608X: Extremal Graph Theory	7
	F 2010	On Leave: Sabbatical (FPDA)	
	F 2009	M265 H: Calculus III	189
		M301 A: Abstract Algebra	14
	S 2009	M606: Enumerative Combinatorics and Partially Ordered Sets	7
	F 2008	M165 H: Calculus I	192
		M301 C: Abstract Algebra	9
	S 2008	M608X: Extremal Graph Theory	9
	F 2007	M265 F1: Calculus III	38
		M304: Introductory Combinatorics	13
	S 2007	M606: Enumerative Combinatorics and Partially Ordered Sets	10
	F 2006	M165 A: Calculus I	189
		M165 H: Calculus I	184
	S 2006	M690I: Extremal Graph Theory	6
	F 2005	M265 B: Calculus III	181
		M301 C: Abstract Algebra	18
	S 2005	M301 B: Abstract Algebra	23
	F 2004	M304: Introductory Combinatorics	22
		M307 A: Matrix Algebra	34
	S 2004	M317 A: Linear Algebra	22
	F 2003	M165 A8: Calculus I	39

## Ryan R. Martin

### Courses Taught (cont.)

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	Semester and Year	Course #: Course Title
CMU:	S 2003	M484: Graph Theory
	F 2002	M801: Extremal Graph Theory
	S 2002	M484: Graph Theory
	F 2001	M301: Combinatorial Analysis
	S 2001	M257: Models and Methods for Optimization
	F 2000	M115: Differential Calculus M106: Topics in Precalculus
RU:	Sum 1999	M373: Numerical Analysis I
	Sum 1998	M477: Probability Theory I
	Sum 1997	M152: Calculus II Math/Physics

#### Courses taught as teaching assistant

	Semester and Year	Course #: Course Title
RU:	S 2000	M244: Diff Eqs/Engr & Physic
	F 1999	M251: Multivariable Calc
	S 1999	M244: Diff Eqs/Engr & Physic
	F 1998	M152: Calculus II Math/Physics
	S 1998	M154: Intensive Calc II
	F 1997	M153: Intensive Calc I
	S 1997	M135: Calculus I
	F 1996	M251: Multivariable Calc

# Ryan R. Martin

## Service: Professional & Institutional

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### Refereeing & Reviewing

Referee for papers:

- *Ars Combin.*: 2015
- *Bull. Iranian Math. Soc.*: 2009
- *Canad. Math. Bull.*: 2009
- *Combin. Probab. Comput.*: 2015
- *Discrete Appl. Math.*: 2013, 2012, 2007 (2)
- *Discrete Math.*: 2014, 2013, 2012, 2010 (2), 2008, 2005, 2004 (Special Volume), 2003
- *Discrete Math. Theor. Comput. Sci.*: 2010
- *Discuss. Math. Graph Theory*: 2016, 2018,
- *Discrete Optim.*: 2011
- *Electron. J. Combin.*: 2015, 2014, 2012, 2010 (3), 2009, 2007, 2003
- *European J. Combin.*: 2016
- *IEEE Transactions on Information Theory*: 2007
- *Indian J. Pure Appl. Math.*: 2013
- *Graphs Combin.*: 2014 (2), 2013
- *J. Appl. Math. Comput.*: 2008, 2006
- *J. Comb.*: 2014
- *J. Combin. Theory Ser. A*: 2016, 2010, 2008
- *J. Combin. Theory Ser. B*: 2014, 2011, 2009
- *J. Graph Theory*: 2008, 2007
- LATIN '08: the 8<sup>th</sup> Latin American Theoretical Informatics Symposium: 2007 (2)
- *Order*: 2015
- *Random Structures Algorithms*: 2013, 2011, 2010, 2008, 2007, 2006, 2005, 2004
- *SIAM J. Discrete Math.*: 2015, 2014

External reviewer for promotion:

- Professor: 2017.
- Associate Professor: 2017, 2016 (4), 2015, 2014 (2), 2012.
- Mid-tenure review: 2017, 2014.

Reviewer for grant proposals:

- Canadian National Sciences and Engineering Research Council (NSERC) grant proposal: 2012.
- American Mathematical Society-National Security Agency (AMS-NSA) grant proposal: 2016 (2), 2013 (2), 2011, 2010.

External reviewer for Ph.D. dissertations:

- Michael Szestopalow, University of Waterloo, Canada, May 2016.
- Miguel Raggi, University of British Columbia, Canada, July 2011.
- (Pre-examiner) Ville Junnila, University of Turku, Finland, December 2010.
- SASTRA University, Tamilnadu, India, September 2010.

Reviewer for book proposals:

- Cambridge University Press, 2018
- Wiley Interscience, 2014.

# Ryan R. Martin

## Service: Professional & Institutional (cont.)

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<b>Professional Service</b>	Invited to be member, 2016 Pólya prize committee, Society for Industrial and Applied Mathematics (SIAM). Recused. Vice Chair of the SIAM Activity Group on Discrete Mathematics, 2012-2013. Moderator and Webmaster for DM-Net, the forum of the SIAM Activity Group on Discrete Mathematics, 2006-2011. Over 900 subscribers.
<b>Graduated Students</b>	Ph.D.: Zhanar Berikkyzy, Mathematics Department, May 02, 2016. Ph.D.: Kirsten Hogenson, Mathematics Department, April 12, 2016. Ph.D.: Lucas Kramer, Mathematics Department, April 09, 2014. M.S.: Chelsea (Sackett) Peck, Mathematics Department, March 11, 2013. Ph.D.: Jason Smith, Mathematics Department, March 28, 2012. Ph.D.: Tracy McKay, Mathematics Department, March 27, 2012. Ph.D.: Brendon Stanton, Mathematics Department, April 07, 2011. M.S.: Laura Walters, Mathematics Department, April 16, 2008. M.S.: Eric Hansen, Mathematics Department, April 30, 2007. M.S.: Chad Brewbaker, Computer Science Department November 15, 2005 (Co-major Profs.: R.R.M., David Fernández-Baca).
<b>Current Students</b>	Ph.D. student: Shanise Walker, Mathematics Department, Spring 2018 exp. Ph.D. student: Alex Neal Riasanovsky, Mathematics Department, Spring 2022 exp.
<b>Faculty Mentorship</b>	Bernard Lidický, Mathematics Department, 2014-2015. Steve Butler, Mathematics Department, 2011-2012.
<b>College/Univ. Service, ISU</b>	University Faculty Review Board, 2017-Present University Research Awards Committee, 2016.
<b>Departmental Service, ISU</b>	Discrete Mathematics Qualifying Exam Committee (chair), April 2016-Present. Chair Search Committee, May 2016-February 2017. Chair Nomination Committee (chair), April 2016-May 2016. Untenured Faculty Review and Evaluation Committee, September 2011-September 2014. Local Organizing Committee for the AMS Spring Central Section Meeting, January 2011-May 2013. Calculus Textbook Selection Committee, October 2012-March 2013. Midwestern Graph Theory (MIGHTY) LIII Organizing Committee, March 2011-October 2012. Graduate Committee, September 2005-September 2011 (on leave, Fall 2010). Chair, September 2007-September 2009. Strategic Planning Committee, January 2009-April 2011. Awards Committee, September 2003-May 2005. Search Committees: <ul style="list-style-type: none"><li>• Discrete Math Faculty (chair), September 2013-March 2014.</li><li>• Ad-hoc Faculty, March 2013.</li><li>• Pre-calculus Coordinator, January 2012-April 2012.</li><li>• Tenure-track, September 2009-December 2009. Cancelled.</li></ul>

# Ryan R. Martin

## Service: Professional & Institutional (cont.)

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### Departmental Service, ISU (cont.)

#### Faculty Review Teams:

- Promotion to Assoc. Prof.: Bernard Lidický, June 2017-January 2018. Chair.
- 3 yr. review: Bernard Lidický, October 2016-March 2017. Chair.
- Promotion to Assoc. Prof.: Steve Butler, September 2015-January 2016. Chair.
- 3 yr. review: Derrick Stolee, October 2015-December 2015. Chair, cancelled.
- 3 yr. review: Tathagata Basak & Steve Butler, October 2013-April 2014.

#### Ph. D. committees:

- Ghazaleh Parvini (Computer Science, Major Prof.: David Fernández-Baca)
- Joshua Carlson (Mathematics, Major Prof.: Leslie Hogben)
- Emelie Curl (Mathematics, Major Prof.: Michael Young)
- Yun Deng (Computer Science, Major Prof.: David Fernández-Baca)
- Lei Liu (Computer Science, Major Prof.: David Fernández-Baca)
- Kacy Messerschmidt (Mathematics, Major Prof.: Bernard Lidický)
  
- Robert Lazar, November 15, 2017 (Mathematics, Major Prof.: Sung-Yell Song)
- Kevin Moss, March 30, 2017 (Mathematics, Major Profs.: Steve Butler and Bernard Lidický)
- Debasis Mandal, October 09, 2015 (Computer Science, Major Prof.: Pavan Aduri)
- Kevin Palmowski, October 05, 2015 (Applied Mathematics, Major Prof.: Leslie Hogben)
- Craig Erickson, February 19, 2014 (Mathematics, Major Prof.: Leslie Hogben)
- Steven Osborne, November 21, 2013 (Mathematics, Major Profs.: Steve Butler and Leslie Hogben)
- Ruchi Chaudhari, February 20, 2013 (Computer Science, Major Prof.: David Fernández-Baca)
- Geoff Tims, December 14, 2012 (Mathematics, Major Prof.: Leslie Hogben)
- Devin Bickner, April 03, 2012 (Mathematics, Major Prof.: Stephen Willson)
- Michelle Lastrina, March 29, 2012 (Mathematics, Major Prof.: Maria Axenovich)
- JiHyeok Choi, April 13, 2011 (Mathematics, Major Prof.: Maria Axenovich)
- Cuizhu Shi, April 01, 2011 (Electrical Engineering, Major Prof.: Aditya Ramamoorthy)
- Darren Row, March 30, 2011 (Mathematics, Major Prof.: Leslie Hogben)
- Yeon-Jung Seo, November 16, 2010 (Mathematics, Major Prof.: Howard Levine)
- Jacob Manske, May 03, 2010 (Mathematics, Major Prof.: Maria Axenovich)
- Ahmet Alturk, July 15, 2009 (Mathematics, Major Prof.: Fritz Keinert)
- Xiaofang Guo, July 10, 2009 (Co-major: Condensed Matter Physics & Applied Mathematics, Co-Major Profs.: James Evans, Alex Travasset)
- Jess Campbell, February 24, 2005 (Mathematics, Major Prof.: Dan Ashlock)



# Ryan R. Martin

## Service: Professional & Institutional (cont.)

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### Departmental Service, ISU (cont.)

Master's committees:

- Kelsey Uherka, May 10, 2013 (Mathematics, Major Prof.: Steve Butler)
- Nick Pappas, July 13, 2012 (Computer Science, Major Prof.: Oliver Eulenstein)
- Rich McBride, July 16, 2009 (Mathematics, Major Prof.: Maria Axenovich)
- Jonathan Wrolstad, March 25, 2009 (INFAS, Major Prof.: Clifford Bergman)
- Michael Yeboah, July 14, 2005 (Economics, Major Prof.: E. Kwan Choi)
- Ricky Brooks, July 09, 2004 (School Mathematics, Co-Major Profs.: Heather Johnston, Irvin Hentzel)

Other graduate student committees: Luke Paben, Doug Ray, Tim Zick.

First-year faculty mentor to graduate students:

- 2017-2018: Elizabeth Sprangel
- 2016-2017: Alex Neal-Riasanovsky
- 2011-2012: Zhanar Berikkyzy, Steven Noren, Kelsey Uherka
- 2009-2010: Craig Erickson, Richard Troll

Preparing Future Faculty Advisee: Elizabeth Kleiman, Mathematics Department and Computer Science Department, 2006-2007.

Discrete Math Seminar co-organizer, September 2004-May 2014.

### Departmental Service, CMU

Master's Dissertation committees:

- Benjamin Kane, May 03, 2002 (Major Prof.: Tom Bohman)
- Abhyudaya Agrawal, Apr. 19, 2001 (Major Prof.: Alan Frieze)

### Miscellaneous

Institute for Mathematics and Its Applications (IMA) Principal Investigators meeting, Minneapolis, MN, June 12, 2009.

Coordinated student and faculty travel to meetings:

- EXtremal Combinatorics at ILLinois 2 (EXCILL 2), Urbana, IL, March 2013. (Obtained student funding from conference.)
- AMS Central Section Meeting (#1069), Iowa City, IA, March 18-20, 2011.
- SIAM Conference on Discrete Mathematics (DM10), Austin, TX, June 14-17, 2010. (Obtained student funding from conference.)
- AMS Central Section Meeting (#1058), St. Paul, MN, April 10-11, 2010.
- AMS Central Section Meeting (#1047), Urbana-Champaign, IL, March 27-29, 2009.
- Random Combinatorial Structures, Lincoln, NE, April 2007. (Obtained student funding from conference.)
- EXtremal Combinatorics at ILLinois (EXCILL), Urbana, IL, November 2006. (Obtained student funding from conference.)
- AMS Central Section Meeting (#1001), Evanston, IL, October 2004.

ARML high school mathematics competition:

Head grader: UNLV site, 2011.

Grader and assistant to the Director of Development: UNLV site, 2007-2013; U. of Iowa site, 2004-2006; Penn State site, 2003.

# Ryan R. Martin

## Support & Recognition

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### Additional Financial Support

Summer RAs funded from grants:

- Kirsten Hogenson, 2014 (NSA-H98230-13-1-0226)
- Lucas Kramer, 2013 (NSA-H98230-13-1-0226)
- Jason Smith, 2012 (NSF-DMS-0901008)
- Tracy McKay, 2011 (NSF-DMS-0901008)
- Brendon Stanton, 2011 (NSF-DMS-0901008)

Conference funding for MIGHTY LIII, September 21-22, 2012:

- NSA Conference Grant, H-98230-12-1-0292 (Co-PI, with PI S. Butler and co-PI M. Young) (\$5900).
- NSF Conference Grant, DMS-1238712 (Co-PI, with PI S. Butler and co-PI M. Young) (\$9000).
- IMA Conference Grant (Co-PI, with PI M. Young and co-PI S. Butler) (\$4000).

Mathematics Department Faculty Development Award, (ISU internal) Spring 2010, Spring 2011, Spring 2012.

Faculty Professional Development Assignment, (ISU internal) Fall 2010.

Foreign Travel Grant (ISU internal), April 2007 (\$542), May 2015 (\$936).

US Junior Oberwolfach Fellow, April 2007 (€400).

Liberal Arts and Sciences Small Grant (ISU internal), May 2005 (\$500).

Clay Mathematics Institute (CMI) Liftoff Fellow, June - August 2000.

Eugene DuPont Distinguished Memorial Scholarship, University of Delaware, 1991-1995.

### Additional Honors & Awards

Exemplary Faculty Mentor (Steve Butler, nominator), Iowa State University, 2014.

Recognized for mentorship by 'Student Scholar and Leader' Matthew Burmeister, Iowa State University, 2009.

Center for DIScrete MAThematics and Computer Science (DIMACS) Graduate Award, 1999: NSF grant CCR 91-19999.

Rutgers University Mathematics Department TA Teaching Award, 1999.

Excellence Fellowship, Rutgers University, 1995-1996.

Certificate of Special Merit: Outstanding accomplishment in mathematical sciences, University of Delaware, 1995.

William D. Clark Prize for Excellence in Mathematics, University of Delaware, 1995.

Stephen J. Wolfe Memorial Award (Outstanding Junior Mathematics Major), University of Delaware, 1994.

### Memberships

American Mathematical Society (AMS), 1995-present.

Society of Industrial and Applied Mathematics (SIAM), 2000-2003; 2010-present.

SIAM Discrete Mathematics Activity Group Vice-Chair, 2012-2013.