Publications:
(undergraduate authors indicated by a * and graduate students by a **)

A. Research Publications

1. “Generalizations of the No-Three-in-a-Line Problem,” to appear in Geombinatorics, 2018 (with Dustin LaFollette*)
3. “Covering Arrays for Equivalence Classes of Words,” submitted to Journal of Combinatorial Designs (with Joshua Cassels*).
4. “Expected Number of Distinct Subsequences in Randomly Generated Binary Strings,” Discrete Math and Theoretical Computer Science, Paper 10, 10 pages, 2018 (with Yonah Biers-Ariel* and Elizabeth Kelley*).
7. “Some Results on Superpatterns for Preferential Arrangements,” Advances in Applied Mathematics 81, 202—211, 2016 (with Yonah Biers-Ariel* and Yiguang Zhang*).
8. “On the Longest Common Pattern Contained in Two or More Random Permutations,” Journal of Combinatorics 7, 531—541, 2016 (with Michael Earnest* and Yevgeniy Rudoy*).
10. “The Total Acquisition Number of the Randomly Weighted Path,” Discussiones Mathematicae, Graph Theory 37, 919—934, 2017 (with Elizabeth Kelley*, Emily Kurtz*, Pawel Pralat, and Yiguang Zhang*).
12. “Preferential Arrangement Superpatterns,” Electronic Notes in Discrete Mathematics 54, 9—14, 2016 (with Yonah Biers-Ariel* and Yiguang Zhang*).
14. “Waiting Time Distribution for the Emergence of Superpatterns,” Methodology and Computing in Applied Probability, 18, 517—528, 2016 (with Martha Liendo**).


45. “Distribution of the total happiness level under a random matching,” *Congressus Numerantium* 192, 151—160, 2008, (with Hamilton Scott* and Jennifer Woodell*).
46. “Universal cycles of discrete functions,” *Congressus Numerantium* 189, 121—128, 2008 (with Britni LaBounty-Lay* and Ashley Bechel*).
53. “Euler’s formula and random geometric graphs,” *The Mathematical Scientist* 27, 8—15, 2002 (with Jacob Benfield*).
55. “Cliques and independent neighbor sets in random graphs,” *Congressus Numerantium* 153, 113-128, 2001 (with Dan Ramras* and Sam Greenberg*).
56. “Contributions to the problem of Zarankiewicz,” *Journal of Statistical Planning and Inference* 95, 197—208, 2001 (with Heidi Graziano*).
58. “Random Sidon sequences,” *Journal of Number Theory* 75, 7–22, 1999 (with Svante Janson, Nick Locantore*, and Rebecca Rapoport*).
60. “Random sphere of influence graphs in the $L_p$ metrics,” *Congressus Numerantium* 134, 175–188, 1999 (with Spencer Slade**).
64. “Sign-balanced covering matrices,” *Discrete Mathematics* 190, 79–93, 1998 (with Laura Potter* and Erik Sandquist*).
66. “If rooks could kill: vertex degrees in random bipartite graphs,” in
Proceedings of the 8th Quadrennial International Conference on Graph Theory 2, 445--450, New Issues Press 1998 (With Ben Lamorte* and Jessica Sklar*).


68. “Imperfections in random tournaments,” Combinatorics, Probability and Computing 6, 1--16, 1997 (with Andrew Barbour and Jinghua Qian**).


73. “General upper bounds for covering numbers,” Ars Combinatoria 42, 211--221, 1996 (with Sandra Thompson* and Eric Vigoda*).


75. “Reliability analysis of a software redundancy system,” Interstat 1, June 1995 (with Nicholas Locantore* and Gomathi Sadhasivan**).


80. “Discriminating between sequences of Bernoulli and Markov-Bernoulli trials,” Communications in Statistics A 23, 2787-2814, 1994 (with Sharyn Campbell* and Stephanie Schaller*).

81. “Improved Poisson approximations for word patterns,” Advances in Applied Probability 25, 334-347, 1993 (with Andrew Schaffner*).


B. Other Academic (marked A) and Educational Publications (marked E)


16. A: Review of Laszlo Lovasz's text Large Networks and Graph Limits, Mathematical Reviews, MR3012035, American Mathematical Society, Providence, 10 pages.