Carl R. Yerger

Davidson College
Davidson, North Carolina, USA

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Education

- **Georgia Institute of Technology** — Atlanta, GA
  Ph.D. Algorithms, Combinatorics and Optimization — *August 2006 - December 2010*
  - Advisor: Robin Thomas, Thesis: Color-Critical Graphs on Surfaces
  - Minor in algorithms

- **University of Cambridge** — Cambridge, UK
  Master of Advanced Study in Mathematics — *2005 - 2006*
  - Graduated with Merit

- **Harvey Mudd College** — Claremont, CA
  B. S. Mathematics — *2001 - 2005*
  - Graduated with high distinction with honors in Mathematics and the Humanities and Social Sciences
  - GPA 3.957, humanities concentration in Economics, 4-year varsity tennis letter-winner

- **Owen J. Roberts High School** — Pottstown, PA
  High School — *1997 - 2001*

Academic Employment

- **Davidson College** — Davidson, NC
  Associate Professor of Mathematics — *August 2010 - Present*
  - Courses Taught: Math 112 Calculus I and Modeling (x1), Math 113 Calculus II (x2), Math 160 Calculus III (x10), Math 220 Combinatorics and Graph Theory (x3), Computer Science 321 Design and Analysis of Algorithms (x3), Math 340 Probability (x2), Math 341 Mathematical Statistics (x2), Math 384 Seminar in Game Theory/Mathematical Finance (x2)

- **Carnegie Mellon University** — Pittsburgh, PA
  Eugene P. Shelly Visiting Assistant Professor (Sabbatical Leave) — *August 2014 - May 2015*
  - Courses Taught: Methods and Models of Optimization (21-257), Graph Theory (21-484)

Publications (available at www.carlyerger.com), * denotes undergraduate author

1. T. Wakayama*, C. Yerger, Intermingled ascending wave M-Sets with three colors, submitted, *Integers: The Electronic Journal of Combinatorial Number Theory.*

2. S. Davies*, C. Xue*, C. Yerger, Algorithms for finding knight's tours on the Aztec diamond, to appear, *Involve: A Journal of Mathematics.*

3. D. Cranston, L. Postle, C. Xue*, C. Yerger, Modified linear programming weighting and Class 0 bounds for graph pebbling, to appear, *Journal of Combinatorial Optimization.* Available on ArXiV at arXiv:1508.07299.

4. C. Yerger, An analogue to Steinberg's conjecture for surfaces, in revision, *European Journal of Combinatorics.*

5. C. Xue*, C. Yerger, Optimal pebbling on grids, *Graphs and Combinatorics*, **32** (2016), 1229–1247.

6. C. Xue*, C. Yerger, Pathwalker-breaker games on complete bipartite graphs, *Congressus Numerantium*, **223** (2015), 119–126.

7. D. Bernstein*, D. Grynkiewicz, C. Yerger, On three sets with nondecreasing diameter, *Discrete Mathematics*, **338** (2015), 1328–1344.

8. P. Britton*, C. Yerger, A boxing-like round by round analysis of American college basketball, *International Journal of Sports Science and Coaching*, **10** (2015), 681–696.

9. Z. Kudlak, Z. Teymuroglu, C. Yerger, Alternative resources for funding and supporting undergraduate research, *Involve: A Journal of Mathematics*, **7** (2014), 377–382.

10. C. Yerger, Nontraditional undergraduate research problems from sports analytics and related fields, *Involve: A Journal of Mathematics*, **7** (2014), 423–430.

11. L. Postle, N. Streib, C. Yerger, Pebbling graphs of diameter three and four, *J. Graph Theory*, **72** (2013), 398–417.

12. N. Chenette, L. Postle, N. Streib, R. Thomas, C. Yerger, Five coloring graphs on the Klein bottle, *Journal of Combinatorial Theory, Series B*, **102** (2012), 1067–1098.

13. N. Watson and C. Yerger, Domination cover pebbling: Structural results, *J. Combin. Math. Combin. Comput.*, **72** (2010), 181–196.

14. A. Benjamin, N. Cameron, J. Quinn, C. Yerger, Catalan determinants – A combinatorial approach, *Applications of Fibonacci Numbers* **11**, (William Webb, ed.), Utilitas Mathematica Publishing Co., Winnipeg, 2009.

15. A. Godbole, N. Watson and C. Yerger, Threshold and complexity results for the cover pebbling game, *Discrete Mathematics*, **309** (2009), 3609–3624.

16. A. Shiu and C. Yerger, Rabbits redux: The cube root of four and the Fibonacci sequence, *Mathematical Spectrum*, **41** (2009), 81–86.

17. J. Gardner, A. Godbole, A. Teguia, A. Vuong, N. Watson and C. Yerger, Domination cover pebbling: Graph families, *J. Combin. Math. Combin. Comput.*, **64** (2008), 255–271.

18. N. Watson and C. Yerger, Cover pebbling numbers and bounds for certain families of graphs, *Bull. Inst. Combin. Appl.*, **48** (2006), 53–62.

19. A. Benjamin and C. Yerger, Combinatorial interpretations of spanning tree identities, *Bull. Inst. Combin. Appl.*, **47** (2006), 37–42.

20. C. Yerger, Monochromatic and zero-sum sets of nondecreasing diameter, manuscript, available on ArXiV, arXiv:math/0512363, 2006.

Refereed Conference Proceedings (available at www.carlyerger.com)

1. L. Postle, N. Streib, C. Yerger, Pebbling graphs of diameter three and four, *Electronic Notes in Discrete Mathematics* **34** (1 August 2009) 21–28, European Conference on Combinatorics, Graph Theory and Applications (EuroComb 2009).

2. N. Chenette, K. Kawarabayashi, D. Kral, J. Kyncl, B. Lidicky, L. Postle, N. Streib, R. Thomas and C. Yerger. Six-critical graphs on the Klein bottle, *Electronic Notes in Discrete Mathematics* **31** (2008), 235–240.

3. A. Godbole, N. Watson, and C. Yerger, Cover pebbling thresholds for the complete graph, *Electronic Notes in Discrete Mathematics*, **22** (2005) 301–304.

Awards, Scholarships, Honors and Fellowships

- Davidson College Faculty Study and Research Grant, ($4,000) to fund summer student research with Jejun Kang.

- Co-PI, Faculty Advancement Grant, ACS (Associated Colleges of the South) Workshop: Mathematics for Social Justice ($14800), December 2015.

- Davidson College Faculty Study and Research Grant, Clark Ross Academic Innovation Fund (recognition for top proposal) ($3500), Summer 2015 to fund summer student research with Takuya Wakayama.

- Carnegie Mellon University Eugene P. Shelly Visiting Professorship (half-salary), 2014-2015 academic year.

- Davidson College Faculty Study and Research and Dean Rusk Travel Grant, Summer 2013 ($3600) for travel to the University of Warwick, Coventry, United Kingdom.

- AMS-Simons Early-Career Travel Grant (July 2012-June 2015)($4800).

- Davidson College Faculty Study and Research and Dean Rusk Travel Grant, Summer 2012 ($3600) for travel to the National Institute of Informatics, Tokyo, Japan.

- Mathematical Association of America Project NExT (New Experiences in Teaching) Fellow 2011-2012.

- Davidson College Faculty Study and Research and Dean Rusk Travel Grant, Summer 2011 ($3600) to Charles University, Prague, Czech Republic.

- Commencement Reflection Speaker, Georgia Institute of Technology Graduation, Fall 2010.

- Georgia Tech School of Mathematics John Festa Fellowship ($900) in May 2009. This award is based upon scholarship and leadership.

- First place oral presentation, Georgia Tech Graduate Student Research Conference, ($75).

- Best student speaker prize ($200) from my presentation "Five-coloring graphs on the Klein bottle" in March 2008 at the SIAM Southeastern Section conference, Orlando, FL.

- President's Fellowship, Georgia Institute of Technology, September 2006 - June 2010 ($5500 per year supplement).

- National Science Foundation Graduate Research Fellowship, offering $30,000 of financial support for graduate study annually for three years beginning Fall 2006.

- Winston Churchill Foundation Scholarship, fully supported my studies at Cambridge University during the 2005-2006 academic year (approximately $45,000).

- Barry M. Goldwater scholarship, June 2003, providing $7500 of financial support for each of my junior and senior years of college.

- Interview nominee for a Marshall Scholarship in the Los Angeles Region, 2005.

- Pennsylvania State Finalist for the Rhodes Scholarship, 2005.

- Harvey Mudd College Nova Scholarship, a four-year half-tuition merit scholarship.

- Intercollegiate Tennis Association Scholar-Athlete, NCAA Division III, 2003-2004 and 2004-2005.

High School Mathematical Service

- AMC10 Co-Chair, Mathematical Association of America Subcommittee on the American Mathematics Competitions AMC 10 and AMC 12, 2016–2019.

- Committee Member, Mathematical Association of America Committee on the American Mathematics Competitions, 2016–2019

- Coordinating Committee, Charlotte Mathematics Club, Charlotte, NC, 2011-present.

- Committee Member, Mathematical Association of America Subcommittee on the American Mathematics Competitions AMC10 and AMC12, 2014-2017. This committee reviews, compiles and finalizes AMC 10 and AMC 12 exams given to 200,000 students worldwide.

- Instructor, Art of Problem Solving, 2014-present.

- Judge, Moody's Mega Math Challenge, 2014-present.

- Organizer, Davidson Invitational Math Tournament, Davidson College, December 7, 2013.

- Instructor, Pioneer Research Program, 2013-present.

- Question writer, American Mathematical Society's, *Who wants to be a mathematician?* Joint Mathematics Meetings, 2012-present.

- Judge and question writer, Carolina Panthers Numbers Crunch Competition, 2011-present.

- Organizer, March MATHness buzzer tournament, Davidson College, February 19, 2011.

- Assistant Organizer, Charlotte Mathematics Club, Charlotte, NC, 2010-2011.

- Organizer, Georgia Tech High School Math Competition (was responsible for writing the seven tests administered during the competition, which involves over 400 high school students), 2009 and 2010 competitions. Assisted in other capacities in 2007 and 2008.

- Grader, ARML (American Regions Math League) Competition, Georgia site, 2009 and 2010.

- TA/Counselor, Pennsylvania Governor's School for the Sciences, Carnegie Mellon University, Pittsburgh, PA, Summer 2005.

- Junior Staff, Hampshire College Summer Studies in Mathematics, Hampshire College, Amherst, MA, Summer 2002.

Mathematical Service

- Organizer, Special Session on Lessons Learned from the Virtual Classroom, Mathematical Association of America, Southeastern Section Meeting, Tennessee Tech University, Cookeville, TN, March 14-15, 2014.

- Co-organizer, Mini-symposium on Graph Pebbling, SIAM Conference on Discrete Mathematics, June 2012, Halifax, NS, Canada.

- Co-organizer, Project NExT Seminar, *Writing, Refereeing, and Publishing: Contributing to the mathematical conversation*, Joint Mathematics Meetings, Boston, MA, January 2012.

- Referee for Journal of Combinatorial Theory, Series B, Journal of Graph Theory, SIAM Journal on Discrete Mathematics, European Journal of Combinatorics, Discrete Mathematics, Ars Combinatoria, Discrete Applied Mathematics, Acta Mathematica Sinica, English Series, Utilitas Mathematica, Discussiones Mathematicae Graph Theory, Methodology and Computing in Applied Probability, International Journal of Computer Mathematics, PRIMUS: Problems, Resources and Issues in Mathematics Undergraduate Studies, INVOLVE: A Journal of Mathematics, Journal of Combinatorial Optimization, Bulletin of the Institute for Combinatorics and its Applications

- Member of SIAM and MAA since 2003, and member of the AMS since 2005.

- Member of the Institute for Combinatorics and its Applications since 2005.

College and University Service

- Davidson College Faculty Study and Research Committee, 2016-present.

- Davidson College Student Study and Research Committee, 2015-present.

- Davidson College Graduate Fellowships Committee, 2011-2014.

- Coordinator, Davidson College Math Coffee Lecture Series, Fall 2011-Spring 2014, Fall 2015-present.

- Senior Thesis advising: Kyle Yang, 2012-2013, Matt Mohorn, 2013-2014, Kai Jia, 2015-2016.

- First year advising groups: 2011-2013, advised 7 students, 2013-2014, advised 7 students (until sabbatical leave), 2015-2017, advised 10 students.

- Summer research advising: Chenxiao Xue, Summer 2014 and Summer 2015 (Davidson Research Initiative), Takuya Wakayama, Summer 2015 (Faculty Study & Research Grant), Ricky Sosa (RISE fellow), Louise Zhao, Summer 2016 (Davidson Research Initiative), Jejun Kang, Summer 2016 (Faculty Study & Research Grant).

- Major advising: Advised approximately 20 majors.

- Designed new course, Math 325: Graph Theory for first adoption in Spring 2016.

- Advisor, Davidson College Backgammon Club 2011-2014.

- Coach, Davidson College team, ACM Computer Programming Competition, 2010-present.

- Georgia Tech Graduate Student Government, Executive Vice President, 2007-2008 academic year. Presided over weekly senate meetings. Student government at Georgia Tech works with a student activity fee budget totaling 3-4 million dollars. Was responsible for picnic with over 1700 graduate students attending.

- Georgia Tech Technology Fee Advisory Committee member. Rates proposals for an approximately five million dollar technology fee fund, 2007-2010.

- Georgia Tech Mandatory Student Fee Advisory Committee member, 2007-2010. Submits recommendations to the president for all five mandatory student fees.

- Georgia Tech Churchill Scholarship Nominating Committee member, 2006-2010. Selects Georgia Tech nominees for national competition for Winston Churchill Foundation scholarships.

Other Teaching Experiences

- **Instructor** — Art of Problem Solving
  Online enrichment program — *April 2014-present*

- **Instructor** — Pioneer Research Program
  Online research-based international high school course — *June 2013-present*

- **Lead Instructor** — Math 3012: Applied Combinatorics
  Student evaluation in top third in College of Sciences — *May 2009 - July 2009*

- **Completed CETL 8803: Fundamentals of Teaching and Learning** — Georgia Tech
  Designed and planned entire course in this class — *Jan. 2009 - May 2009*

- **Teaching Assistant** — Math 1711: Finite Math
  Graduate Teaching Assistant — *Aug 2008 - Dec 2008*

- **TA/ Counselor** — Pennsylvania Governor's School for the Sciences
  Carnegie Mellon University — *June 2005 - July 2005*
  Assisted in teaching, grading and tutoring courses in discrete mathematics and problem solving. Advised a group of students in a team project involving mathematics and social anthropology.

- **Junior Staff** — Hampshire College Summer Studies in Mathematics
  Lectured daily to class of 15 gifted HS students — *June 2002 - Aug. 2002*
  Lectured around an hour per day to a class of fifteen gifted high school students. Taught an 8-lecture mini-course (1.5 hours per lecture) on Fibonacci identities, sums and combinatorial proofs.

- **Private Tutor** — Varies
  Tutored Math and Science to Middle School through College Students — *2000 - Present*

Presentations (in reverse chronological order)

1. *Modified linear programming and Class 0 bounds for graph pebbling* SIAM Conference on Discrete Mathematics, Georgia State University, Atlanta, GA, June 8, 2016.

2. *Handicapping no-tap bowling* MAA Section Meeting, University of Alabama at Birmingham, Birmingham, AL, March 26, 2016.

3. *Handicapping no-tap bowling*, Joint Mathematics Meetings, Special Session on Mathematics and Sports, Seattle, WA, January 8, 2016.

4. *Optimal pebbling on grids*, Eighth Slovenian Conference on Graph Theory, Special Session on Graph Products, Kranjska Gora, Slovenia, June 23, 2015.

5. *On three sets with nondecreasing diameter*, Twenty-eighth Cumberland Conference on Combinatorics, Graph Theory and Computing, University of South Carolina, Columbia, SC, May 15, 2015.

6. *Pathwalker-breaker games on complete bipartite graphs*, 2015 Allegheny Mountain Mathematical Association of America section meeting, Washington and Jefferson College, Washington, PA, April 11, 2015.

7. *More problems with pebbling: pebbling problems for thinkers at all levels*, Pebblefest 2015, Virginia Commonwealth University, Invited Speaker, March 14, 2015.

8. *Pathwalker-breaker games on complete bipartite graphs*, Forty-Sixth Southeastern International Conference on Combinatorics, Graph Theory and Computing, Florida Atlantic University, March 4, 2015.

9. *Boxing in Basketball: A round-by-round analysis of the American college game*, Joint Mathematics Meetings, San Antonio, TX, January 11, 2015.

10. *Boxing in Basketball: A round-by-round analysis of the American college game*, Carnegie Mellon University Sports Analytics Group, December 5, 2014.

11. *Steinberg's Conjecture, the Bordeaux Coloring Conjecture and Near Coloring*, Bordeaux Graph Workshop 2014, University of Bordeaux, Bordeaux, France, November 19, 2014.

12. *A Pebbling Potluck: Interesting problems for thinkers at all levels*, Atlanta Lecture Series XIII, Emory University, Atlanta, GA, Invited Speaker, November 2, 2014.

13. *Steinberg's Conjecture, the Bordeaux Coloring Conjecture and Near Coloring*, SIAM Conference on Discrete Mathematics, Minneapolis, MN, June 18, 2014.

14. *Steinberg's Conjecture, the Bordeaux Coloring Conjecture and Near Coloring*, ACO Seminar, Carnegie Mellon University, Pittsburgh, PA, Invited Speaker, May 1, 2014.

15. *Researching through the firewall: Lessons learned participating in an international high school research program*, MAA Southeastern Section Meeting, Tennessee Tech University, Cookeville, TN, March 14, 2014.

16. *Steinberg's Conjecture, the Bordeaux Coloring Conjecture and Near Coloring*, AMS Special Session on Graph Theory: Structural and Extremal Problems, AMS-MAA Joint Meetings, January 16, 2014.

17. *Steinberg's Conjecture, the Bordeaux Coloring Conjecture and Near Coloring*, Combinatorics Seminar, University of Warwick, Coventry, United Kingdom, Invited Speaker, June 14, 2013.

18. *Boxing in Basketball: What factors affect the outcome in a college basketball game?*, MAA Southeastern Section Conference, Winthrop University, Rock Hill, SC, March 16, 2013.

19. *Steinberg's Conjecture, the Bordeaux Coloring Conjecture and Near Coloring*, Department of Mathematics Colloquium, Wake Forest University, Winston-Salem, NC, Invited Speaker, February 27, 2013.

20. *Planar Graphs with no 5-cycles, 6-cycles and Intersecting Triangles are 3-colorable*, Clemson Mini-Conference on Discrete Mathematics and Algorithms, November 2012, invited speaker.

21. *Discharging in pebbling on low-diameter graphs*, SIAM Conference on Discrete Mathematics, Pebbling Mini-symposium, Halifax, NS, Canada, June 2012, invited speaker.

22. *Boxing in Basketball*, Special Session on Game Theory and Mathematical Finance, MAA Section Meeting, Clayton State University, Morrow, GA, March 10, 2012.

23. *Modified linear programming weighting for graph pebbling*, Special Session on Recent Trends in Graph Theory, Joint Mathematics Meetings, Boston, MA, January 6, 2012, invited speaker.

24. *On three sets with nondecreasing diameter*, INTEGERS conference, University of West Georgia, Carrollton, GA, October 20, 2011.

25. *Modified linear programming weighting for graph pebbling*, American Mathematical Society Section Meeting, Wake Forest University, Winston-Salem, NC, September 24, 2011, invited speaker.

26. *Steinberg's conjecture and higher surfaces*, Weekly seminar, Institute for Theoretical Computer Science, Charles University, Prague, Czech Republic, June 2, 2011, invited speaker.

27. *On three sets with nondecreasing diameter*, Cumberland Conference on Graph Theory, Combinatorics and Computing, University of Louisville, Louisville, KY, May 13, 2011.

28. *Reading questions: pedagogical differences between educational environments*, MAA Southeastern Section Meeting, Tuscaloosa, Alabama, April 1, 2011.

29. *Steinberg's conjecture and higher surfaces*, MAA Southeastern Section Meeting, Tuscaloosa, Alabama, April 1, 2011.

30. *Steinberg's conjecture and higher surfaces*, SIAM Southeastern Section Conference, UNC-Charlotte, March 26-27, 2011.

31. *Steinberg's conjecture and higher surfaces*, Special Session on New Directions in Graph Theory, Joint Mathematics Meetings, New Orleans, LA, January 2011, invited speaker.

32. *Steinberg's conjecture and higher surfaces*, 2nd Netherlands Workshop on Graphs and Matroids, Maastricht University, Netherlands, August 3, 2010.

33. *Color-Critical graphs on surfaces*, SIAM Conference on Discrete Mathematics, Austin, TX, June 15, 2010.

34. *Color-Critical graphs on surfaces*, Discrete Mathematics Seminar, Clemson University, January 28, 2010.

35. *Color-Critical graphs on surfaces*, Bertinoro Workshop on Graphs and Algorithms, Bertinoro, Italy, December 2009.

36. *Pebbling graphs of diameter three and four*, European Conference on Combinatorics, Graph Theory and Applications (EuroComb 2009), University of Bordeaux, Bordeaux, France, September 2009, accepted for presentation by program committee.

37. *Research Proposal: Steinberg's conjecture and its extensions*, ACO Program Research Proposal Presentation, Georgia Tech, Atlanta, GA, May 2009.

38. *Five-coloring graphs on the Klein bottle*, Georgia Tech Graduate Student Government Research Symposium, Atlanta, GA, March 2009.

39. *Pebbling graphs of diameter four*, Georgia Tech Graph Theory Seminar, Atlanta, GA, December 2008.

40. *Five-coloring graphs on the Klein bottle*, Netherlands Workshop on Graphs and Matroids, Sittard, Netherlands, July 20, 2008, invited presentation.

41. *Pebbling graphs of diameter three*, Cumberland Conference on Graph Theory, Combinatorics and Computing, Vanderbilt University, May 17, 2008.

42. *Pebbling graphs of diameter three*, Poster Presentation, New Directions in Algorithms, Combinatorics and Optimization, Georgia Tech, Atlanta, GA, May 2008.

43. *Five-coloring graphs on the Klein bottle*, SIAM-Southeastern Section Conference, Special Session on Graph Theory, University of Central Florida, Orlando, FL, March 16, 2008, invited presentation.

44. *Pebbling graphs of diameter three*, Southeastern Conference on Graph Theory, Combinatorics and Computing, Boca Raton, FL, March 5, 2008.

45. *Pebbling graphs of diameter three*, Georgia Tech Graduate Student Government Research Symposium, Atlanta, GA, March 2008.

46. *Six-regular graphs on the Klein bottle*, Graph Theory Seminar, Georgia Tech, Atlanta, GA, Jan 17, 2008.

47. *Extensions of graph pebbling*, Combinatorics Seminar, Georgia Institute of Technology, Atlanta, GA, January 2006.

48. *Cover pebbling thresholds for the complete graph*, International Colloquium of Graph Theory, Heyers, France, September 2005.

49. *Probabilistic and combinatorial results concerning deep graphs*, National AMS/MAA meetings, Atlanta, GA, Combinatorics IV session, Winter 2004.

50. *Domination cover pebbling*, National AMS/MAA meetings, Atlanta, GA, Combinatorics I session, Winter 2004.

51. *Monochromatic and zero-sum sets of nondecreasing diameter*, Incoming Freshmen On-Campus Day, Harvey Mudd College, Claremont, CA, Spring 2004.

52. *Monochromatic and zero-sum sets of nondecreasing diameter*, Hampshire College Summer Studies in Mathematics, Amherst, MA, Summer 2003.

53. *Solution to American Mathematical Monthly problem 10901*, Southern California AMS/MAA meeting's poster session, Claremont, CA, Spring 2003.

Other Research Experience

- **Internship**   National Institute for Informatics, Advisor: Ken-ichi Kawarabayashi
  Tokyo, Japan   *Aug. 2009-Sept. 2009*
- **REU Program**   East Tennessee State University, Johnson City, TN
  Probability and Graph Theory   *June 2004-July 2004*
- **REU Program**   University of Idaho, Moscow, ID
  Combinatorics   *June 2003-July 2003*

Other Activities

- **Tennis:** During the 2005-2006 academic year, I played for the Cambridge University men's tennis second team. I played at positions ranging from #1 to #4 and during the Varsity match against Oxford's second team. From 2001-2005, I played for the Claremont-Mudd-Scripps Stags men's tennis team. During 2003-2004, the team was ranked as high as #2 nationally in NCAA Division III, with an undefeated record during the regular season within Division III. While on the team, I participated mostly as a reserve, but amassed a career league record of 8-2.

- **Bowling:** I was the president and co-founder of the Georgia Tech Bowling Club. My average is approximately 215. I am also a United States Bowling Congress Bronze certified coach. My high three-game series is 792.

- **Korfball:** During the 2005-2006 academic year, I played for the Cambridge University Korfball Team. For my participation in the korfball Varsity match against Oxford, I earned a half-blue. In addition, during Summer 2006, I played for the United States Korfball Team at the Commonwealth and Friends Tournament in London and had six international appearances. Currently, I serve on the United States Korfball Federation National Executive Board and play for the US National Korfball Team.

- **Duplicate Bridge:** I was a co-president of Harvey Mudd College's Bridge Club for the 2004-2005 academic year and was responsible for the day-to-day organization of the club. I have played bridge since 2001 and currently play in bridge tournaments in the Atlanta and Charlotte area.

- **Music:** I played drum set for Robert Keller's Jazz Ensemble at Harvey Mudd and have been part of the group from Spring 2004 to Spring 2005. In addition, I played drums and percussion through high school.

- **Volunteer Work:** Since 1995, I have been a bingo volunteer at the North Coventry Fire Company, Pottstown, PA. Since 1999, I have worked intermittently as a bingo caller. I also, when in Pottstown, volunteer at the fire company's annual carnival, most recently in 2014.