

Kevin G. Milans

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Research Interests

Discrete mathematics, combinatorics, and graph theory. Specific interests include extremal combinatorics, probabilistic combinatorics, combinatorial games, combinatorial algorithms, and computational complexity of combinatorial decision problems.

Appointments

2023-	Associate Director For Graduate Programs , School of Mathematical and Data Sciences, West Virginia University.
2017-	Associate Professor , School of Mathematical and Data Sciences, Department of Mathematics, West Virginia University.
Spring 2017	Interim Undergraduate Program Director , Department of Mathematics, West Virginia University.
2012-2017	Assistant Professor , Department of Mathematics, West Virginia University.
2010-2012	Visiting Assistant Professor , Department of Mathematics, University of South Carolina.

Education

August 2010	University of Illinois at Urbana Champaign , Ph.D. in Mathematics Advisor: Professor Douglas B. West
December 2006	University of Illinois at Urbana Champaign , M.S. in Computer Science Advisor: Professor Jeff Erickson
May 2002	Carnegie Mellon University , B.S. in Computer Science Minor in Physics

Publications

- A. Czygrinow, K. G. Milans, J. Porter, Constant Longest Path Transversals in Dense Graphs, in preparation.
- R. C. Devine and K. G. Milans, Tight paths in fully directed hypergraphs, in preparation.

- J. A. Long, K. G. Milans, M. Wigal, Longest Path and Cycle Transversals in Chordal Graphs, submitted.
- J. Bright, J. Porter, and K. G. Milans, Turán Numbers of Ordered Tight Hyperpaths, *Eur.J.Comb*, to appear.
- J. A. Long Jr., K. G. Milans, and A. Munaro, Non-empty intersection of longest paths in H -free graphs, *Electron. J. of Comb.*, Vol 30 Issue 1, P1.32.
- A. S. Jobson, A. E. Kézdy, K. G. Milans, D. B. West, D. J. Wildstrom, Systems of Overlap Representation for Families of Intervals, *Graphs Combin* 38, 36 (2022).
- J. A. Long Jr., K. G. Milans, and A. Munaro, Sublinear Longest Path Transversals, *SIAM J. Discret. Math*, 35(3) (2021), 1673–1677.
- K. G. Milans and M. C. Wigal, A dichotomy theorem for First-Fit on posets with forbidden subposets, *SIAM J. Discret. Math*, 34(1) (2020), 586–596.
- K. G. Milans and M. C. Wigal, Online coloring a token graph, *Graphs Combin*, 36 (2020), 153–165.
- J. Almeter, S. Demircan, A. Kallmeyer, K. G. Milans, R. Winslow, The 2-Ranking Numbers of Graphs. *Graphs Combin*, 35 (2019), no. 1, 91–102. (From the 2015 Research Experience for Undergraduate Students at West Virginia University.)
- K. G. Milans, Monotone paths in dense edge-ordered graphs. *J. Comb.*, 8 (2017) no. 3, 423–437. (Special edition honoring Ron Graham’s 80 birthday.)
- L. Lu and K. G. Milans, Set families with forbidden induced subposets. *J. Combin. Th. Ser. A*, 136 (2015), 126–142.
- T. Johnston, L. Lu, and K. G. Milans, Boolean algebras and Lubell functions. *J. Combin. Th. Ser. A*, 136 (2015), 174–183.
- K. G. Milans, D. Stolee, and D. B. West, Ordered Ramsey Theory and Track Representations of Graphs. *J. Comb.* 6 (2015), no. 4, 445–456.
- G. Joret, P. Micek, K. G. Milans, W. T. Trotter, B. Walczak, and R. Wang. Tree-width and dimension. *Combinatorica*, 36(4):431450, 2016.
- P. Horn, K. G. Milans, and V. Rödl, Degree Ramsey numbers of closed blowups of trees. *Electronic Journal of Combinatorics* 21 (2014), Paper 2.5.
- J. Choi, K. G. Milans, and D. B. West, Linear Discrepancy of Chain Products and Posets with Bounded Degree. *Order*, 31(3) (2014), 291–305.
- A. V. Kostochka and K. G. Milans, Coloring clean and K_4 -free circle graphs. In János Pach, editor, *Thirty Essays in Geometric Graph Theory*, pages 399–414. Springer, 2013.
- D. W. Cranston, W. B. Kinnersley, K. G. Milans, G. J. Puleo, and D. B. West, Chain-making games in grid-like posets. *Journal of Combinatorics*, 3 (2012), 633–649.
- T. Jiang, K. G. Milans, and D. B. West, Degree Ramsey numbers for cycles and blowups of trees. *European J. Combin.*, 34 (2013), 414–423.
- F. Pfender, K. G. Milans, D. Rautenbach, F. Regen, and D. B. West, Cycle spectra of Hamiltonian graphs. *J. Combin. Th. Ser. B*, 102 (2012), 869–874.
- M. Ferrara, M. S. Jacobson, K. G. Milans, C. Tennenhouse, and P. S. Wenger, Saturation numbers for graph subdivision families. *J. Graph Theory*, 71 (2012), 416–434.

- W. B. Kinnersley, K. G. Milans, and D. B. West, Degree Ramsey numbers of graphs. *Combin. Probab. Comput.* 21 (2012), 229-253. Richard Schelp memorial issue.
- R. Downey, N. Greenberg, C. Jockusch, and K. G. Milans, Binary subtrees with few labeled paths. *Combinatorica* 31 (2011), 285-303.
- K. G. Milans, D. Schreiber, and D. B. West, Acyclic sets in k -majority tournaments. *Electronic Journal of Combinatorics* 18 (2011), Paper 122.
- J. Butterfield, T. Grauman, W. B. Kinnersley, K. G. Milans, C. Stocker, and D. B. West, Online degree-Ramsey theory. *Electronic Journal of Combinatorics* 18 (2011), Paper 136.
- D. W. Cranston, N. Korula, T. LeSaulnier, K. G. Milans, C. Stocker, and J. Vandenbussche, Overlap number of graphs. *J. Graph Theory*, doi: 10.1002/jgt.20596.
- G. Joret and K. G. Milans, First-Fit is Linear on Posets Excluding Two Long Incomparable Chains. *Order* 28 (2011), 455–464.
- D. P. Bunde, K. G. Milans, D. B. West, and H. Wu, Optimal strong parity edge-coloring of complete graphs. *Combinatorica* 28 (2008), 625–632.
- D. P. Bunde, E. W. Chambers, D. Cranston, K. G. Milans, and D. B. West, Pebbling and optimal pebbling in graphs. *J. Graph Theory* 57 (2008), 215–238.
- D. P. Bunde, K. G. Milans, D. B. West, and H. Wu, Parity and strong parity edge-colorings of graphs. *Congressus Numer.* 187 (2007), 193–213.
- K. G. Milans and B. Clark, The Complexity of Graph Pebbling. *SIAM J. Discret. Math.* 20(3) (2006), 769-798.

Presentations

November 2024	“Longest Path Transversals and Gallai Families”, Purdue University Fort Wayne Mathematics Colloquium, Fort Wayne, IN.
January 2024	“Computational Complexity Aspects of Graph Pebbling”, WVU Theoretical Computer Science Seminar, Morgantown, WV.
January 2024	“Ordered Turán Numbers”, 2024 Joint Mathematics Meetings, San Francisco, CA.
July 2023	“Turán Problems for Ordered Graphs and Hypergraphs”, University of Illinois at Urbana-Champaign, Champaign, IL.
April 2023	“Ordered Turán Numbers”, AMS Spring 2023 Central Sectional Meeting, University of Cincinnati, Cincinnati, OH.
April 2023	“Longest Path and Cycle Transversals in Chordal Graphs”, Seminar, United States Naval Academy, Annapolis, MD.
March 2023	“Tight paths in fully directed hypergraphs”, AMS Spring 2023 Southeastern Sectional Meeting, Georgia Institute of Technology, Atlanta, GA.

March 2023	“Longest Path and Cycle Transversals in Chordal Graphs”, 54th Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Florida Atlantic University, Boca Raton, FL.
October 2022	“Tight paths in fully directed orientations of complete hypergraphs”, AMS Fall 2022 Western Sectional Meeting, University of Utah, Salt Lake City, UT.
October 2022	“Ordered Turán Numbers”, AMS Fall 2022 Southeastern Sectional Meeting, University of Tennessee at Chattanooga, Chattanooga, TN.
April 2022	“Ordered Turán Numbers”, Illinois Institute of Technology, via zoom.
October 2021	“Introduction to Turán Problems”, Willamette University Math Colloquium, via zoom.
October 2021	“Ordered Turán Numbers”, Illinois State University Discrete Math Seminar, via zoom.
July 2021	“Ordered Turán Numbers”, Eastern Tennessee State University REU Seminar.
October 2020	“Longest Path Transversals and Gallai Families”, 3rd Annual Meeting of the SIAM Texas-Louisiana Section, Texas A&M University, via zoom.
October 2020	“Longest Path Transversals and Gallai Families”, Seminar, Illinois Institute of Technology, via zoom.
April 2020	“Longest Path Transversals and Gallai Families”, Seminar, Virginia Commonwealth University, via zoom.
March 2020	“Longest Path Transversals and Gallai Families”, Seminar, Arizona State University, Tempe, AZ.
February 2020	“Pattern Avoidance in Permutations”, Graduate Student Seminar, University of California, San Diego (UCSD), San Diego, CA.
November 2019	“Longest Path Transversals”, AMS Fall Southeastern Sectional Meeting, University of Florida, Gainesville, FL.
March 2019	“Forbidden induced subgraphs and Gallai vertices”, AMS Spring Southeastern Sectional Meeting, Auburn University, Auburn, AL.
March 2019	“Forbidden induced subgraphs and Gallai vertices”, 50th Southeastern International Conference on Combinatorics, Graph Theory & Computing Boca Raton, FL.
October 2018	“A Dichotomy Theorem for Greedy Chain Partitions”, AMS Fall Central Sectional Meeting, University of Michigan, Ann Arbor, MI.
January 2018	“First-Fit chain partitions in partially ordered sets”, 2018 International Workshop on Graph Theory, Ewha Womans University, Seoul, Korea.
September 2017	“Ordered star colorings”, AMS Fall Eastern Sectional Meeting, State University of New York at Buffalo, Buffalo, NY.

September 2017	“First-Fit chain partitions in partially ordered sets”, WVU-China Workshop on Graph Theory, West Virginia University, Morgantown, WV.
April 2017	“Online coloring blowups of a known graph”, AMS Spring Central Sectional Meeting, Indiana University, Bloomington, IN.
April 2017	“Ordered star colorings”, AMS Spring Central Sectional Meeting, Indiana University, Bloomington, IN.
March 2017	“Online coloring blowups of a known graph”, 48th Southeastern International Conference on Combinatorics, Graph Theory & Computing, Florida Atlantic University, Boca Raton, FL.
November 2016	“Online coloring blowups of a known graph”, AMS Fall Southeastern Sectional Meeting, North Carolina State University, Raleigh, NC.
November 2016	“Forbidden Induced Posets in the Boolean Lattice”, Department Talk, University of North Carolina at Greensboro, Greensboro, NC.
June 2016	“Monotone paths in dense edge-ordered graphs”, SIAM Conference on Discrete Mathematics, Georgia State University, Atlanta, GA.
March 2016	“Monotone paths in dense edge-ordered graphs”, ACO Seminar, Carnegie Mellon University, Pittsburgh, PA.
March 2016	“Monotone paths in dense edge-ordered graphs”, AMS Spring Southeastern Sectional Meeting, University of Georgia, Athens, GA.
September 2015	“Monotone paths in dense edge-ordered graphs”, Combinatorics and its Applications, Miami University, Oxford, OH.
June 2015	“Monotone paths in edge-ordered complete graphs”, Connections in Discrete Mathematics: A Celebration of the work of Ron Graham, Simon Fraser University, Burnaby, BC, Canada.
May 2015	“Monotone paths in K_n ”, 28th Cumberland Conference, University of South Carolina, Columbia, SC.
November 2014	“Tilings of Hypercubes”, AMS Fall Southeastern Sectional Meeting at University of North Carolina at Greensboro.
June 2014	“Turán and Ramsey Results for Boolean Algebras”, West Fest: Celebrating 60 Years. Hosted by the Institute for Mathematics and its Applications, Minneapolis, MN.
June 2014	“Forbidden Structures in the Boolean Lattice”, 2014 SIAM Conference on Discrete Mathematics, Posets minisymposium.
March 2014	“Multicolor Degree Ramsey Numbers of Cycles”, AMS Southeastern Spring Sectional Meeting at University of Tennessee, Knoxville.
October 2013	“Multicolor Degree Ramsey Numbers of Cycles”, AMS Fall Southeastern Sectional Meeting at University of Louisville.

April 2013	“Turán and Ramsey Results for Boolean Algebras”, AMS Spring Sectional Meeting at Iowa State University.
October 2012	“Forbidden Induced Posets in the Boolean Lattice”, AMS Fall Central Sectional Meeting at University of Akron.
September 2012	“Forbidden Induced Posets in the Boolean Lattice”, ACO Seminar, Carnegie Mellon University, Pittsburgh, PA.
September 2012	“Forbidden Induced Posets in the Boolean Lattice”, AMS Fall Eastern Sectional Meeting at Rochester Institute of Technology.
September 2012	“Forbidden Induced Posets in the Boolean Lattice”, 4th Polish Combinatorial Conference.
April 2012	“Sparse Ramsey Hosts”, Georgia Southern University, Department Colloquium.
February 2012	“Sparse Ramsey Hosts”, West Virginia University, Department Colloquium.
February 2012	“Sparse Ramsey Hosts”, University of Denver.
February 2012	“Sparse Ramsey Hosts”, University of South Florida, Department Colloquium.
February 2012	“Sparse Ramsey Hosts”, University of Rhode Island.
October 2011	“First-Fit is Linear on $(\underline{r} + \underline{s})$ -free Posets”, Clemson Mini-Conference on Discrete Mathematics and Algorithms.
October 2011	“First-Fit is Linear on $(\underline{r} + \underline{s})$ -free Posets”, Emory University.
September 2011	“Binary Subtrees with Few Path Labels”, Carolina Math Seminar at USC Sumter.
July 2011	“Degree Ramsey Numbers of Graphs”, two part lecture series, Freie Universität Berlin.
April 2011	“Coloring Clean and K_4 -free Circle Graphs”, Atlanta Lecture Series in Discrete Mathematics III at Georgia Institute of Technology.
March 2011	“Binary Subtrees with Few Path Labels”, AMS Southeastern Section Meeting at Georgia Southern University.
March 2011	“First-Fit is Linear on $(\underline{r} + \underline{s})$ -free Posets”, Georgia Institute of Technology.
February 2011	“Degree Ramsey Numbers of Graphs”, Virginia Commonwealth University.
November 2010	“Acyclic Sets in k -majority Tournaments”, AMS Southeastern Section Meeting in Richmond, Virginia.
October 2010	“Binary Subtrees with Few Path Labels”, Georgia Institute of Technology.
October 2010	“Degree Ramsey Numbers of Graphs”, Emory University.

June 2010	“First-Fit is Linear on $(r + s)$ -free Posets”, SIAM Conference on Discrete Mathematics in Austin, Texas.
February 2010	“Degree Ramsey Numbers of Graphs”, Simon Fraser University.
January 2010	“Degree Ramsey Numbers of Graphs”, 2010 Joint Mathematics Meetings in San Francisco, California.
December 2009	“Degree Ramsey Numbers of Graphs”, Mathematics Colloquium, University of Louisville.
November 2009	“Acyclic Sets in k -majority Tournaments”, University of Colorado Denver.
July 2009	“Cycle Spectra of Hamiltonian Graphs”, SIAM Annual Meeting 2009 in Denver, Colorado.
May 2009	“Computational Complexity aspects of Graph Pebbling”, CanaDAM 2009 in Montreal, Quebec.
April 2008	“Online Degree Ramsey Theory”, AMS Sectional Meeting at Indiana University, Bloomington.
November 2007	“On-line Ramsey Theory”, Combinatorics Seminar, U. of Louisville.
April 2006	“Parity Edge Coloring of Graphs”, DISCMATH Seminar, Illinois State U.

Teaching

Fall 2024	Math 573, “Introduction to Graph Theory”
Spring 2024	Math 303, “Introduction to Concepts of Mathematics”, Math 696, “Graduate Seminar: Professional Tools”
Fall 2023	Math 251, “Multivariable Calculus” (two sections)
Spring 2023	Math 303, “Introduction to Concepts of Mathematics”, Math 373, “Introduction to Cryptography”
Fall 2022	Math 156, “Calculus 2”, Math 343, “Introduction to Linear Algebra”
Spring 2022	Math 373, “Introduction to Cryptography”, Math 378, “Discrete Mathematics”
Fall 2021	Math 375, “Applied Modern Algebra” Math 545, “Number Theory 1”
Spring 2021	Math 375, “Applied Modern Algebra” Math 793D, “Probabilistic Method”

Fall 2020	Math 261, “Differential Equations”, Math 343, “Introduction to Linear Algebra”
Fall 2019	Math 375, “Applied Modern Algebra” Math 545, “Number Theory 1”
Spring 2019	Math 571, “Combinatorial Analysis 1”
Fall 2018	Math 573, “Graph Theory” Math 261, “Differential Equations”
Spring 2018	Math 283, “Introduction to Concepts of Mathematics”
Fall 2017	Math 573, “Graph Theory” Math 545, “Number Theory 1”
Spring 2017	Math 773, “Extremal Combinatorics”
Fall 2016	Math 573, “Graph Theory”
Spring 2016	Math 293E, “Math Reasoning”, Math 645, “Number Theory 2”
Fall 2015	Math 375, “Applied Modern Algebra”, Math 545, “Number Theory 1”
Spring 2015	Math 773, “Advanced Topics in Graph Theory”,
Fall 2014	Math 261, “Elementary Differential Equations”, Math 573, “Graph Theory”
Spring 2014	Math 373/578, “Introduction to Cryptography”
Fall 2013	Math 251, “Multivariable Calculus” Math 545, “Number Theory 1”
Spring 2013	Math 571, “Combinatorial Analysis 1”
Fall 2012	Math 343, “Introduction to Linear Algebra” Math 375, “Applied Modern Algebra”

Prior Teaching Assignments. As a postdoc at the University of South Carolina, I taught business calculus, differential equations, and discrete mathematics. As a graduate student at the University of Illinois at Urbana-Champaign, I served as a TA for various classes in mathematics and computer science, and served as co-instructor for classes in theoretical computer science.

Honors, Awards, Grants, and Fellowships

April 2019	Internal Grant, WVU Mathematics Excellence in Research Fund, Tight Monotone Paths in Hypergraphs; PI. (\$8517)
July 2014	Grant to support REU Site: Graph Theory and Combinatorics at WVU; co-PI. (\$119,883)
January 2014	Grant to support the 27th Cumberland Conference on Combinatorics, Graph Theory, and Computing; co-PI. (\$12,680)
July 2011	AMS-Simons Travel Grant. (\$4,000)
September 2010	MSRI Travel Award to attend the BIRS workshop “New trends on structural graph theory” in Banff, Alberta, Canada.
August 2010	Fellowship to attend the conference in honor of the 70th birthday of Endre Szemerédi in Budapest, Hungary.
June 2010	SIAM Student Travel Award to attend the SIAM Conference on Discrete Mathematics in Austin, TX.
January 2010	AMS Travel Award to attend the Joint Mathematics Meetings in San Francisco, CA.
November 2009	IPAM award to attend the IPAM workshop “Topics in Graphs and Hypergraphs”.
August 2009	Dissertation Completion Fellowship; awarded by Mathematics Department and funded by the National Science Foundation.
Spring 2009	List of Teachers Ranked as Excellent by their Students; Outstanding ratings designation.
May 2009	CanaDAM Student Funding Committee award to attend CanaDAM 2009, Montreal.

Mentoring

- Current Graduate Students: Caleb Devine (Ph.D.), Zachary Hammersla (Ph.D.).
- Advisor, Gabe Cardella, *From Monkeys to Markov Chains: Analyzing Random Character Sequences*, undergraduate capstone project, 2024.
- Advisor, Gabriel D. Turak, *Induced Matching Partitions in Generalized Petersen Graphs*, undergraduate capstone project, 2024.
- Advisor, James A. Long Jr., *Longest Path and Cycle Transversals and Gallai Families*, Ph.D. in Mathematics, 2023.
- Advisor, Jackson Porter M.S. in Mathematics (2020-2022), *Turán number for ordered tight paths*, undergraduate capstone project, 2020.
- Advisor, Michael Wigal, *Characterization of subexponential posets for First-Fit*, undergraduate capstone project, 2017.

- Advisor, Nurul Wahyuni, *Chebyshev Polynomials and Fibonacci Numbers*, M.S. in Mathematics, 2016.
- Co-advisor, Samet Demircan, *2-Ranking of Graphs*, undergraduate capstone project, 2015.
- Advisor, Dustin Snider, *An Exploration of Ramsey's Theorem*, undergraduate capstone project, 2015.
- Member of Ph.D. committee: Janet Anderson (2016–2017), Debsoumya Chakraborti (Carnegie Mellon University, 2020), Sulin Song (2020-2022), Theophilus Oshoba (2024-).

Service Activities

- WVU Putnam Competition Supervisor, Sep 2024-present.
- WVU Mathematics Department Calculus Advisory Committee Member, Oct 2017-May 2018; Sep 2021-May 2023.
- WVU Mathematics Department, Graduate Program Committee, Committee Member, Sep 2019-May 2022.
- WVU Mathematics Department, Search Committee Member, August 31 2021-March 2022.
- WVU Graduate Council, Committee Member, Aug 2018-May 2021.
- WVU Mathematics Department, Research Committee, Committee Member, Sep 2019-Dec 2019.
- WVU Mathematics Department, Hiring Plan Committee, Committee Chair, Aug 2018-2019.
- WVU Mathematics Department, Faculty Evaluation Committee, Committee Member, Apr 2018-Sep 2019.
- WVU Mathematics Department, Undergraduate Program Committee, Committee Member, Oct 2014-May 2019.
- WVU Mathematics Department, Visiting Assistant Professor Search Committee Member, April 2018-May 2018.
- WVU Mathematics Department Strategic Planning Committee Member, Oct 2017-May 2018.
- WVU Mathematics Interim Undergraduate Program Director, Spring 2017.
- WVU Mathematics Department Assessment Committee Member, Oct 2016-May 2018.
- Co-organizer, 27th Cumberland Conference on Combinatorics, Graph Theory, and Computing, hosted at West Virginia University, May 2014. Supported by the WVU Mathematics Department and the NSF.
- Co-advisor, West Virginia University Pi Mu Epsilon and Math Club, Fall 2012-Sep 2019.
- Junior Faculty Mentor, University of Illinois Research Experience for Graduate Students (REGS) in combinatorics, Summer 2012.
- University of South Carolina Events Committee, Fall 2011-Spring 2012.
- University of South Carolina Pi Mu Epsilon faculty advisor, Fall 2010-Spring 2012.
- South Carolina High School Mathematics Contest Committee, Fall 2010-Spring 2012.

- Co-organizer, AMS Special Session on New Developments in Graph Theory (featuring 24 talks), AMS Southeastern Section Meeting, September 2011.
- Reviewer for grant proposals. *NSA Young Investigator Grant*: 5/2015.
- Referee for scholarly journals and conferences. *Combinatorica*: 6/2021; *Random Structures and Algorithms*: 2/2021; *Israel J. of Math*: 1/2019; *ICALP*: 3/2018; *SODA*: 8/2015; *J. Graph Theory*: 10/2015, 4/2016; *Journal of Combinatorial Theory, Series A*: 6/2014, 7/2016, 10/2017, 10/2018; *Journal of Combinatorial Theory, Series B*: 11/2013, 9/2016, 6/2020; *SIAM J. on Disc. Math.*: 9/2011, 9/2011, 7/2013, 10/2014, 9/2017; *J. of Combin.*: 7/2011, 9/2017; *Discrete Mathematics & Theoretical Computer Science*: 7/2011; *Electronic J. of Combin.*: 6/2011, 8/2011, 2/2016, 10/2019; *Central European J. of Math.*: 2/2011, 6/2011; *Order*: 9/2010, 7/2011, 10/2016, 11/2018; *Discrete Mathematics*: 12/2007, 5/2009, 7/2009, 9/2009, 6/2010, 11/2010, 1/2011, 7/2011, 7/2015, 3/2017, 10/2018, 12/2022; *Journal of Graph Algorithms and Applications*: 5/2009; *Graphs and Combinatorics*: 2/2014; *European J. of Math.*: 10/2014; *Australas. J. Combin.*: 12/2016; *Moscow J. Comb. Number Th.*: 5/2020.
- Reviewer for AMS Mathematical Reviews, 9/2009-2016.
- Micro-teaching facilitator, U. of Illinois Graduate Academy for College Teaching, Fall 2009.
- Computer science and mathematics small group facilitator, TA orientation program, U. of Illinois Graduate Academy for College Teaching, Fall 2008.