Curriculum Vitae

Guantao Chen

ADDRESS

Department of Mathematics and Statistics
Georgia State University, Atlanta, GA 30303

phone: (404) 413-6436 *fax*: (404) 413-6403
e-mail: gchen@gsu.edu

EDUCATION

1987–1991 Ph.D., Mathematics, The University of Memphis, Memphis, Tennessee

1978–1984 B.S., M.S., Mathematics, Huazhong Normal University, Wuhan, China

RESEARCH INTERESTS

Graph Theory and Its Applications

PRIMARY APPOINTMENTS

1995-date **Chair** (2009-date), **Distinguished University Professor** (2013-date), **Professor** (2004-date), **Associate Professor** (1999-2004), **Assistant Professor** (1995-1999), Department of Mathematics and Statistics, Georgia State University (GSU), Atlanta, GA

2004-date **Professor**, Computer Science (Joint Appointment), GSU, Atlanta, GA

1996, Fall **Visiting Assistant Professor**, University of Louisville, Louisville, KY, USA

1991-1995 **Assistant Professor (91-95)**, Department of Mathematics, North Dakota State University, Fargo, ND

OTHER ACADEMIC POSITIONS

2014,-12,-11 **Visiting Professor**, Hong Kong University, Hong Kong

2010-Summer **Visiting Professor**, Universite Paris-Sud, Paris, France

2008-2013 **Chutian Guest Chair Professor**, Hubei University, China

2007-date **Honorary Guest Professor**, East China University of Science and Technology

2007-date **Honorary Guest Professor**, China Three Gorges University, China

2004-2007 **Distinguished Guest Professor**, Central China Normal University, China

1998-2007 **Honorary Guest Professor**, Nanjing Normal University, Nanjing, China

2004(2-3) **Visiting Professor**, Hong Kong University of Sci. & Tech., Hong Kong

2004(Jan) **Visitor**, The University of Hong Kong, Hong Kong

1996-1997 **Visiting Professor**, L.R.I., Universite Paris-Sud, Paris, France

1994, Sum. **Visiting Assistant Professor**, University of Memphis, Memphis, TN, USA

1987-1991 **Van Vleet Fellow** (89-91), **Graduate Teaching Assistant** (87-89), University of Memphis, Memphis, TN

1984-1987 **Lecturer**, Huazhong Normal University, Wuhan, China

EXTERNAL GRANTS

National Science Foundation, *Collaborative Research: Promoting reasoning in undergraduate mathematics (PRIUM)* , Co-PI (PI: Draga Vidakovic), September 2016 - August 2019, ($ 310,409)

National Security Agency, H98230-12-1-0239, *The Chromatic Index and the Circumference of a Graph*, PI, February 2012 - January 2014, ($66,848)

National Science Foundation, DMS-0500951, *Graph Computing on Finding Long Cycles and Small Dense Subgraphs with Applications*, June 2005 – June 2009, PI, ($99,998)

National Security Agency, *Problems Surrounding Graph Minors and Connectivities*, December 2003 – December 2005, PI, ($30,017)

National Science Foundation DMS-0070059, *Circumferences and Graphic Ramsey Theory*, July 00 – July 04 ($74,492)

National Security Agency, MDA904-97-1-0101, *Cycles in Graphs and Graph Ramsey Theory – Research in Graph Theory*, July 1997 – July 1999 ($14,011)

National Security Agency, MDA904-94-H-2060 and MDA904-95-1-1091, *Hamiltonian Graphs and Graph Ramsey Theory – Research in Graph Theory*, November 1994 – October 1996 ($26,373)

The Centers of Disease Control and Prevention, CDC Award 200-2006-M-18895, PR 35074, *An Interactive Decision-Support Tool to Maximize Chlamydia and Gonorrhea Screening Resources: A Means to Reduce Disparities in STD Burden.* PI, (with Guoyu Tao and Tom Gift) September 2006 – September 2009($60, 000)

The Centers of Disease Control and Prevention, *STD transmission Model.* PI, (with Guoyu Tao) September 2007 -September 2012 ($24, 500)

The Centers for Disease Control and Prevention, Graduate Student fellowship grant, May 2002 - August 2003, PI (Supported Bartholomen K. Abban), ($25,000)

North Dakota Experimental Program to Stimulate Competitive Research Grant 4963, *Problems in Hamiltonian Graphs and Ramsey Theory – Research in Graph Theory*, June 1994 – May 1995 ($10,000)

North Dakota State University Grant-in-Aid 1139, *Graphic Ramsey Theory* February 1994 – May 1995, ($4,000)

INTERNAL GRANTS

GSU RPE, *Bioinformatics*, August 2010 – date, Co-PI (with Irene Weber (PI), Robert Harrison(Co-PI), Yi Pan (Co-PI), ($180, 000 for first three years and $60, 000/year after)

GSU RPE, *Bioinformatics (Renewed*, August 2007 – July 2010, Co-PI (with Irene Weber (PI), Robert Harrison(Co-PI), Yi Pan (Co-PI) ($240, 000)

GSU RPE, *Bioinformatics*, August 2005 – July 2007, Co-PI (with Irene Weber(PI), Robert Harrison(Co-PI), Y. Pan(Co-PI) ($228, 000)

GSU Faculty Scholarship Mentoring Grant, *Project Statistical Methods for Treatment Comparisons in Clinical Trials*, December 2005 – December 2006, as the Mentor(with Yichuan Zhao as the Mentee), ($10,000)

GSU Faculty Scholarship Mentoring Grant Pilot Project, *Numerical Investigation of Inverse Problem in Optical Tomography*, December 2004 – December 2005, as Mentor (with Alexandra B. Smirnova as the Mentee), ($6,000)

P20 NIH grant – Georgia State University, *Predicating Calcium-binding sites with graph theory algorithm II*, June 2005 – June 2006, PI, (with Jenny Yang) ($15,000)

P-20 NIH grant – Georgia State University, *Predicating Calcium-binding Sites with Graph Theory Algorithms*, December 2004 – June 2005, PI, (with Jenny Yang) ($15,000)

The 1st Annual Bio-Medical Center Seed Grant, *Efficient Graph Theoretical Algorithms for Modelling the Change of Main-Chains After Modification of Local Conformations*, PI (With Zhiren Liu) ($9,908)

Georgia State University Team Grant, *High Speed Distributed Trigger Algorithm for the PHENIX/RHIC Experiment at GSU*, co-PI (with X. He, K. Blalakrishnan, and M. Weeks), 2000-2001, ($15,000)

Georgia State University Team Grant, *Joint Development of Level-2 Trigger Algorithms for the PHENIC/RHIC Experiment at GSU*, PI (with Xiaochun He), 1999 – 2000 ($9,000)

North Dakota Experimental Program to Stimulate Competitive Research REU grant, Summer 1995 ($10,000)

Georgia State University Initiation Grant, *Hamiltonian Graphs and Graphic Ramsey Theory*, 1996 – 1997 ($4,000)

CONFERENCE GRANT

National Security Agency, *Atlanta Lecture Series on Combinatorics and Graph Theory*, 2016-2018, PI (Co-PIs: Huang and Yu) $48,800 (Pending)

National Science Foundation, *Atlanta Lecture Series on Combinatorics and Graph Theory*, 2016-2017, Co-PI (PI: Huang) $24,900 (Pending)

National Science Foundation, *Atlanta Lecture Series on Combinatorics and Graph Theory III*, 2015-2016, PI (Co-PIs: Gould and Yu) $22,050

National Science Foundation, *Atlanta Lecture Series on Combinatorics and Graph Theory II*, 2014-2015, Co-PI (PI: Yu, Co-PI: Gould) $22,050

National Science Foundation, *Atlanta Lecture Series on Combinatorics and Graph Theory II*, 2013-2014, PI, (Co-PIs Gould and Yu), $22,050,

National Science Foundation, *Atlanta Lecture Series on Combinatorics and Graph Theory*, 2010-2012, Leading PI, ($66,150 ($22,050, GSU part))

NSA, *Atlanta Lecture Series on Combinatorics and Graph Theory*, 2010-2013, PI, ($25,800)

National Natural Science Foundation of China (NSFC), *Wuhan International Conference on Structure Graph Theory*, March 2005 - July 2005, PI (with Zhiquan Hu) (Ÿ50,000)

The Office of Naval Research, *The 16th Cumberland Conference on Combinatorics, Graph Theory, and Computing*, Oct. 2002 - June 2003, ($8,000)

TEACHING GRANT

Georgia State University, *Purchasing Campus Wide Mathematics and Statistics Software Licenses*, July 2003 - June 2004, PI ($58,002)

AWARDS

2005 **The best Paper Award of Cocoon 2005** – The Eleventh International Computing and Combinatorics Conference (with Jason Gao, Xingxing Yu, and Wenan Zang)

2001 **Outstanding Faculty Achievement Award**, Georgia State University

1989-91 **Van Vleet Memorial Fellowship**, University of Memphis

1990 **The Second Place Prize of Graduate Research Forum**, University of Memphis

PROFESSIONAL ACTIVITIES

Journal Editor: **Managing Editor**, *Graphs and Combinatorics*, (2011-date)

Guest Editor, Special Issue of *Discrete Mathematics* on Graph Structure Theory (with X. Yu and W. Zang), (05-08)

Officer: **Coordinator**, The Society for Industrial and Applied Mathematics SIAM Discrete Mathematics Active Group

Grant Reviewer: National Science Foundation Panel (10), National Science Foundation(99), National Security Agency (12, 94, 00, 03), the Portuguese Foundation of Science and Technology (FCT) (12), City University of Hong Kong (02), The Research Grants Council of Hong Kong(11, 04), The Chinese Science Award(05)

Referee: Journal of Graph Theory, Journal of Combinatorial Theory Ser. B, Graphs and Combinatorics, Discrete Mathematics, Applied Discrete Mathematics, ARS Combinatorial, The Austrilasian Journal of Combinatorics, Electronic Journal of Combinatorics, Random Structures & Algorithms, Letters of Applied Mathematics, The International Journal of Mathematics, Theoretical Computer Science, Science in China

Conference Organizer:

Atlanta Lecture Series in Combinatorics and Graph Theory, 17 conferences (since 2010) hosted rotating among three major research universities in Atlanta: Emory University, Georgia Institute of Technology, and Georgia State University, 2010-2015 (with Ronal Gould and Xingxing Yu)

Minisymposium on Graph Theory (3 sessions), SIAM Conference on Discrete Mathematics 2016, June 6-10, Atlanta, GA (with Xingxing Yu)

Special Session on Topics in Graph Theory, AMS Spring Southeastern Sectional Meeting, University of Georgia, Athens, GA, March 5-6, 2016 (with Songling Shan)

Minisymposium on Extremal Combinatorics, Probabilistic Combinatorics, and Their Applications, The 8th Internaational Congress on Industrial and Applied Mathematics, Beijing, China, August, 2015(with J. Ma and H. Hao)

International Symposium on Graph Theory and Combinatorial Algorithms (GTCA'2010) (on the Best Student Paper Selection Committee), Beijing, China, August

International Symposium on Graph Theory and Combinatorial Algorithms (GTCA'2007) (on program committee), Beijing, China, July, 2007

IEEE International Conference on Granular Computing 2006, Atlanta (on Program Committee), May, 2006

Minisymposium on Cycles in Graphs, SIAM Discrete Math Conference, Victoria, Canada, June, 2006(with X. Yu)

Wuhan International Workshop on Graph Structure Theory, Huazhong Normal University, Wuhan, China (with Zhiquan Hu) July 2005

Three sessions of Minisymposiums on Paths and Cycles in Graphs, SIAM Discrete Math Conference, Nashville, TN (with X. Yu), June 2004

Atlanta International Graph Theory Conference –East meets West, Georgia State University, Atlanta, June 2004

The 16th Cumberland Conference on Combinatorics, Graph Theory, and Computing, Georgia State University, Atlanta, GA (with G. Domke and J. Hattingh), May 2003

Minisymposium on Problems in Extremal Graph Theory, SIAM Discrete Math Conference, San Diego, CA, August 2002

Minisymposium on Cycle Structures in Graph Theory, SIAM Discrete Math Conference, San Diego, CA, August 2002

ACADEMIC ADVISING

Ph.D.

Songling Shan (2015), *Homeomorphically Irreducible Spanning Trees. Halin graphs, and Long Cycles in 3-connected Graphs with Bounded Maximum degrees*
Nana Li (2014), *Union Closed Set Conjecture and Maximum Directed Cut in Connected Digraph*
Xue Wang (2009), *Towards Predicting Protein Calcium-Binding Pockets*,
Hai Deng (2007), *Identifying calcium-binding sites and predicting disulfide connectivity,*
Yang Ping, (2016 expected), Graph Theory
Amy Yates, (2016 expected), Graph Theory
Yuping Gao, (2016 expected), Graph Theory, Co-Advisor
Shushan He, (2019 expected), Graph Theory
Yan Cao, (2019 expected), Graph Theory

M.S.

Thomas Hippchen (May 2008), *Intersections of longest paths and cycles*
Kun Zhao (May 2008), *Treatments of Chlamydia Trachomatis and Neisseria Gonorrhoeae*
Brian Michael Cook (2007), *An extension of Ramsey's theorem to multipartite graphs*
Xin Wei (2007), *An optimal solution on screening and treatment of chlamydia trachomatis and neisseria gonorrhoeae*
Kinnari Patel (2004), *Some eigenvalue results for certain matrices associated with graphs*
Ken Keating (2004), *Bar-visibility Graphs*
Bartholomew Kweku Abban (2003), *Re-screening women who test-positive for C. tranchomatics infection: An integer programming to determine numbers of women cured under fixed program budgets*
Tran Nguyen (2002), *Path Spectrum*
Nhi Vuong (2000), *Hamiltonian Graphs*

Ph.D. Committee

Chunyu Zang (M&S, 15-date), Jie Han (M&S, 12-15), Qing Hu (CS, 12-15), Yang Wang (CS, 10-12), Jing He (CS, 10-12), Tianjun Ye (Georgia Tech, 12), Ken D. Nguyen (CS, 09-11), Yiwei Wu (CS, 07-09), Eunjung Cho (CS, 06-08), Guanghui Wang (Paris-Sud University and Shangdong University, 06-07), Michael Ferrara (Emory University, 05), Xinjin Chen (The University of Hong Kong, 04), Allen Fulton (Emory University, 98), M. Sherman (North Dakota State University, 94-97)

TEACHING

Under-graduate:

College Algebra, Math Modeling, Trigonometry, Discrete Math, Fortran, Graph Theory, Statistics, Calculus for Social and Life Sciences, Calculus I, II, and III, Linear Algebra, Differential Equations, Operations Research, Optimization, Applied Combinatorics

Graduate:

Graph Theory, Linear Algebra, Algebra I, Algebra II, Algorithm, Operations Research, Combinatorics, Combinatorial Optimization, Probability Theory

UNIVERSITY SERVICE

Department: Chair (09-date)
Bio-informatics Graduate Committee (08-09)
Promotion and Tenure Committee, Chair, 2004-2006
Research Committee, 2004-2009
Ph.D. proposal Committee, 2004-2006
Colloquium Committee, 1998-2004(chair), 2005-date
Faculty Search Committee, 2004-2005
Tech Fee Committee, Chair, 2003
Faculty Recruitment Committee, 2002-2003
Statistics Committee, 2002-2003
Mathematics Committee, 1996-2002
Ad Hoc Lecture Policy Committee, 2003
Departmental Executive Committee, 1998-99
Departmental Colloquium Committee, 1995-98
Departmental Colloquium (NDSU), Chair, 1994-95
K.N. Rao Examination Committee (NDSU), Chair,1991-92, 1994-95
Computer Resources and Planning Committee (NDSU), 1992
North Dakota High School Math. Reform (NDSU), 1992

College and University: College Promotion and Tenure Committee(Natural Science), 2006- 2009
The Molecular Basis of Diseases (MBD) Representative, 2004-date
The Committee of Taskforce for Molecular Biocomputing, 2008-2009
University Senate–Strategic Planning Committee, GSU, 2002-03
University Senate–Student Life and Development Committee, GSU, 2002-03
University Senate–Information System and Technology Committee, GSU, 2002-03
University Senate–Admissions and Standards Committee, GSU, 2001-2002
Faculty and Student Relation Committee (NDSU), 1993-1995

PROFESSIONAL MEMBERSHIPS

Member of American Mathematical Society
Member of Society for Industrial and Applied Mathematics

PUBLICATIONS

Appeared

2016

[120]. *Equitable vertex arboricity of 5-degenerate graphs*, **J. Comb Optim**, DOI 10.1007/s10878-016-9997-8 (with Yuping Gao, Songling Shan, Guanghui Wang, and Jianling Wu)

2015

[119]. *Plane triangulations without spanning Halin subgraphs : Counterexamples of Lovász-Plummer conjecture on Halin graphs* **SIAM J. Discrete Math** 29 (2015), no. 3, 1423-1426. (with H. Enomoto, K. Ozeki, and S. Tsuchiya)

[118]. *Characterizing forbidden pairs for hamiltonian squares* **Graphs Combin.** 31 (2015), no. 6, 2113-2124 (with Songling Shan)

[117]. *Disjoint chorded cycles of the same length* **SIAM J. Discrete Math.** 29 (2015), no. 2, 1030-1041 (with Ronald J. Gould, Kazuhide Hirohata, Katsuhiro Ota, and Songling Shan)

[116]. *Hadwiger conjecture for degree sequences* **J. Combin. Theory Ser. B** 114 (2015), 247-249 (with Katsuhiro Ota)

[115]. *An extension of the Chvátal-Erdős theorem: counting the number of maximum independent sets*, **Graphs and Combinatorics** 31 (2015), no. 4, 885-896 (with Yinkui Li, Haicheng Ma, Tingzeng Wu, and Liming Xiong)

2014

[114]. *Degree conditions for spanning brooms*, **J. Graph Theory**, 77 (2014), no. 3, 237-250 (with Michael Ferrara, Zhiquan Hu, Michael Jacobson and Huiqing Liu)

[113]. *Maximum cuts for connected digraphs*, **J. Graph Theory** 76 (2014), no. 1, 1-19 (with Manzang Gu, and Nana Li)

[112]. *Spanning* 3*-ended trees in k-connected* $K_{1,4}$*-free graphs*, **Sci. China Math**. 57 (2014), no. 8, 1579-1586 (with Yuan Chen and Zhiquan Hu)

2013

[111]. *The existence of a 2-factor in a graph satisfying the local Chvátal-Erdős condition*, **SIAM J. Discrete Math.** 27 (2013), no. 4, 1788-1799 (with A. Saito and S. Shan)

[110]. *Homeomorphically Irreducible Spanning Trees*, **J. Combin. Theory Ser. B** 103 (2013), no. 4, 409-414 (with S. Shan)

2012

[109]. *The circumference of a graph with no* $K_{3,t}$*-minor II* , **J. Combin. Theory B**, 102 (2012), no. 6, 1211-1240 (with X. Yu and W. Zang)

[108]. *Hamilton cycles will all small even chords*, **Discrete Mathematics**, 312 (2012), no. 6, 1226-1240 (with Katsuhiro Ota, Akira Saito, and Yi Zhao)

[107]. *Homeomorphically Irreducible Spanning Trees in Locally Connected Graphs* **Combinatorics, Probability, and Computing** 21 (2012), no. 1-2, 107-111 (with H. Ren and S. Shan)

[106]. *Forbidden pairs for k-connected Hamiltonian graphs*, **Discrete Math.** 312 (2012), no, 6, 1226-1240 (with Y. Egawa, R. Gould, A. Saito)

[105]. *Endpoint extendible paths in dense graphs*, **Discrete Math**, 312 (2012), no. 17, 2584-2592 (with Z. Hu and H. Li)

[104]. *Using a Resource Allocation Model to Better Guide Local Sexually Transmitted Diseases Control and Prevention Programs*, **Operations Research for Health Care** 1 (2012), Issues 2-3, 23-29 (with Thomas Gift, Guoyu Tao, and Kun Zhao)

2011

[103]. *Circumferences of k-connected Graphs Involving Independence Numbers*, **J. Graph Theory** 68 (2011), no. 1, 55-76 (with Z. Hu and Y. Wu)

[102]. *Saturation numbers for families of Ramsey-minimal graphs*, **Journal of Combin.**, 2 (2011), no. 3, 435-455 (with M. Ferrara, R. Gould, C. Magnant, J. Schmitt)

[101]. *Approximating the chromatic index of multigraphs* **J. Comb. Optim.** 21 (2011), no. 2, 219-246 (with X. Yu and W. Zang)

[100]. *Toughness of* $K_{a,t}$*-minor-free graphs*, **Electron. J. Combin**. 18 (2011), no. 1, Paper 148, 6 pp (with Y. Egawa, K. Kawarabayashi, B. Mohar, and K. Ota)

[99]. *Transforming Complete Coverage Algorithms to Partial Coverage Algorithms for Wireless Sensor Networks*, **IEEE Transactions on Distributed Systems**, 22(2011) no. 4, 695-703 (with Yingshu Li, Chinh Vu, Yi Zhao)

2010

[98]. *Tournament score sequences with k-transitive m-partitionable realizations* **J. Graph Theory** 64 (2010), no. 1, 52-62 (with A. Busch and M. Jacobson)

[97]. *Path spectra for trees*, Discrete Math 310 (2010) 3455-3461 (with R. Faudree and L. Šoltés)

[96]. *Optimization Model and Algorithm Help to Screen and Treat Sexually Transmitted Diseases* **Internat. J. Computational Models and Algorithms in Medicine** 1(2010), no. 4 1-18 (with T. Gift, G. Tao, and K. Zhao)

[95]. *A Universal Framework for Partial Coverage in Wireless Sensor Networks* **Performance Computing and Communications Conference**, (IPCCC) 2009 IEEE 28th International, 1097-2641, 1-8 (with Y. Li, C. Vu, and Y. Zhao)

[94]. *Efficient Parallel Algorithms for Maximum-Density Segment Problem*, **Parallel & Distributed Processing** – the 24th IEEE International Symposium, 1530-2075, 1-9 (with F. Qiu, S. Prasad, and X. Wang)

[93]. *Integration of diverse research methods to analyze and engineer C_a^{2+}-binding proteins: From prediction to production*, **Curent Bioinformatics,** 5, no. 1 (2010) 68-80 (with M. Kirberger, S. Tang, X. Wang, J. Yang, K. Zhao)

[92]. *Analysis and prediction of calcium binding pockets from apo-protein structures exhibiting calcium-induced localized conformational changes*, **Protein Science**, 19, no. 6, (2010) 1180-1190 (with M. Kirberger, X. Wang, H. Wong, J. Yang)

2009

[91]. *Towards Predicting C_a2+ –binding Sites with Different Coordination Numbers in Proteins with Atomic Resolution*, **Proteins: Bioinformatics**, 75 (2009), no. 4, 787-98 (with M. Kirberger, F. Qiu, X. Wang, and J. Yang)

[90]. *Toric geometry of series-parallel graphs*, **SIAM J. Discrete Math** 23 (2009), no. 2, 754-64 (with J. Brennan)

2008

[89]. *Linked graphs with restricted lengths*, **J. Combin. Theory Ser. B**, 98 (2008), no. 4, 735-751 (with Y. Chen, S. Gao, and Z. Hu)

[88]. *Gauss-Bonnet formula, finiteness condition, and characterizations of graphs embedded in surfaces*, **Graphs Combin.** 24 (2008), no. 3, 159-183 (with B. Chen)

[87]. *Non-path spectrum sets*, **J. Graph Theory**, 58 (2008), no. 4, 329–350 (with R. Faudree, X. Li, and I. Schiermeyer)

[86]. *Graphic sequences with a realization containing a complete multipartite subgraph*, **Discrete Math**, 308 (2008) 5712-21 (with M. Ferrara, R.J. Gould, J.R. Schmitt)

[85]. *Statistical Analysis of Structural Characteristics of Protein C_a2+ binding sites*, **J. Biological Inorganic Chemistry**, 30 (2008), no. 29, 9260-7 (with H. Deng, M. Kirberger, X. Wang, J. Yang, and W. Yang)

[84]. *Saturation Numbers of Books*, **Electron. J. Combin.** 15 (2008), no. 1, Research Paper 118, 12 pp. (with R.J. Faudree and R.J. Gould)

2007

[83]. *The neighborhood union of independent sets and hamiltonicity of graphs*, **Discrete Math.** 307 (2007), no. 17-18, 2226–2234 (with X. Li, Z. Wu, and X. Xu)

[82]. *Decomposition of bipartite graphs into special subgraphs*, **Discrete Applied Mathematics** 155 (2007), no. 3, 400–404 (with R. Schelp)

[81]. *The Chvátal-Erdős condition and 2-Factors with a specified number of components*, **Discussiones Mathematicae Graph Theory** 27 (2007) no. 3, 401–407 (with R. Gould, K. Kawarabayashi, K. Ota, A. Saito, I. Schiermeyer)

2006

[80]. *Cycle extendabilty of hamiltonian interval graphs*, **SIAM J. Discrete Math.**, 20 (2006), no. 3, 682–689 (with R. Faudree, R. Gould, and M. Jacobson)

[79]. *Circumferences of graphs with no $K_{3,t}$-minors*, **J. Combin. Ser B**, Vol. 96 (2006), no. 6, 822-845 (with L. Sheppardson, X. Yu, and W. Zang)

[78]. *Predicting Calcium Binding Sites in Proteins-A Graph Theory and Geometry Approach* **Proteins: Structure, Function, and Bioinformatics** 64 (2006) no. 1, 34–42 (with H. Deng, W. Yang, and J. Yang)

[77]. *Hamiltonian graphs involving neighborhood unions*, **J. Graph Theory** 53 (2006), no. 2, 83-100 (with W. Shreve and B. Wei)

[76]. *Approximating long cycles in graphs with bounded degrees*, **SIAM J. Comput.** 36 (2006), no. 3, 635–656 (with Z. Gao, W. Zang, and X. Yu)

[75]. *Characterizations of [1,k]-Bar Visibility Trees*, **Electron. J. Combin.** 13 (2006), no. 1, Research Paper 90, 12 pp. (with J.P. Hutchison, K. Keating, J. Shen)

[74]. *Cysteine separations profiles on protein secondary structure infer disulfide connectivity* **Proc. of IEEEGrC 2006**, Atlanta, GA, May, 2006 (with H. Deng, Y. Gui, Y. Pan, and X. Wang)

2005

[73]. *Graph minors and linkages*, **J. of Graph Theory**, 49 (2005), no. 1, 75–91. (with R. Gould, K. Kawarabayashi, F. Pfender, B. Wei)

[72]. *Approximating the Longest Cycle Problem on Graphs with Bounded Degree*, **Lecture Notes in Computer Science**, Vol. 3595/2005, 870–884. (with Z. Gao, X. Yu, and W. Zang)

2004

[71]. *Re-screening women who test positive for C. trachomatis infection: an integer programming to determine numbers of women cured under fixed program budgets*, **Health Care Management Science**, 7 (2004), 135-144 (with G. Tao, B. Abban, and T. Gift)

[70]. *Circumference of graphs with bounded degree*, **SIAM J. Comput.** 33 (2004), no. 5, 1136-1170. (with J. Xu and X. Yu)

[69]. *Vertex-disjoint cycles containing specified vertices in a bipartite graph*, **J. of Graph Theory**, 46 (2004), no. 3, 145-166. (with H. Enomoto, K. Kawarabayashi, K. Ota, D. Lou, and A. Saito)

[68]. *Cycles in 4-connected planar graphs*, **European J. Combin.** 25 (2004), no. 6, 763-780. (with G. Fan and X. Yu)

[67]. *New conditions for k-ordered Hamiltonian graphs*, **Ars Combin.**, 70 (2004), 245-255. (with G. Ronald and F. Pfender)

[66]. *An interlacing result on normalized laplacians*, **SIAM J. Discrete Math.** 18 (2004), no. 2, 353–361. (with G. Davis, F. Hall, Z. Li, K. Patel, and M. Stewart)

[65]. *Linear forests and ordered cycles*, **Discuss. Math. Graph Theory** 24 (2004), no. 3, 359–372. (with R. Faudree, R. Gould, M. Jacobson, L. Lesniak, and F. Pfender)

2003

[64]. *Second neighborhood via first neighborhood in digraphs*, **Ann Comb.** 7 (2003), 15-20. (with J. Shen and R. Yuster)

[63]. *Extremal graphs for intersecting cliques*, **J. Combin. Theory Ser. B**, 89 (2003), no. 2, 159-171. (with R.J. Gould, Florian Pfender, and Bing Wei)

[62]. *Graph connectivity after path removal*, **Combinatorica**, 23 (2003), no. 2, 185-203. (with R.J. Gould and X. Yu)

[61]. *On ranks of matrices associated with trees*, **Graphs Combin.**, 19 (2003), no. 3, 323–334. (with F. Hall, B. Wei, and Z. Li)

2002

[60]. *A note on fragile graphs,* **Discrete Math**, 249 (2002), no. 1-3, 41-43. (with X. Yu)

[59]. *The hamiltonicity of bipartite graphs involving neighborhood unions*, **Discrete Math**, 249 (2002), no. 1-3, 45-56 (with A. Saito, B. Wei, and X. Zhang)

[58]. *Long cycles in* 3*-connected graphs*, **J. Combin. Theory Ser. B**, 86 (2002), no. 1, 80-99 (with X. Yu)

[57]. *Fragile graphs with small independent cuts*, **J. Graph Theory**, 41 (2002), no. 4, 327-341 (With R. Faudree and M. Jacobson)

2001

[56]. *Partitioning vertices of a tournament into independent cycles*, **J. Combin. Theory Ser. B**, 83 (2001), no. 2, 213-220 (with R. Gould and H. Li)

[55]. *Degree-light-free graphs and Hamiltonian cycles,* **Graphs Combin.**, 17 (2001), no. 3, 409–434 (with B. Wei and X. Zhang)

[54]. *Vertex-disjoint cycles containing specified edges in a bipartite graph*, **Australas. J. Combin.**, 23 (2001), 37-48. (with H. Enomoto, K. Kawarabayashi, K. Ota, D. Lou, and A. Saito)

[53]. *Degree sequences with repeated values*, **Ars Combin.**, 59 (2001), 33-44. (with J. Hutchinson, W. Piotrowski, W. Shreve, B. Wei)

[52]. *Weak clique-covering cycles and paths*, **Ars Combin.**, 58 (2001), 67-83. (with R. Faudree and W. Shreve)

[51]. *Isomorphisms involving reversing arcs of digraphs*, **J. Combin. Math. Combin. Comput.**, 36 (2001), 155-160 (with F. Hall, A. Kezdy, Z. Li, and H. Zhou)

[50]. *On a relationship between 2-dominating and 5-dominating sets in graphs*, **J. Combin. Math. Combin. Comput**., 39 (2001), 139–145 (with M. Jacobson).

2000

[49]. *Cliques covering the edges of a locally co-bipartite Graphs*, **Discrete Math**, 219 (2000), no. 1-3, 17-26 (with M. Jacobson, A. Kézdy, J. Lehel, E. Scheinerman, C. Wang)

[48]. *Hamiltonian connected graphs involving forbidden subgraphs*, **Bull. Inst. Combin. Appl.**, 29 (2000), 25-32 (with R. Gould)

[47]. *Cycles in* 2*-factors of balanced bipartite graphs*, **Graphs Combin.**, 16 (2000), 67-80 (with R. Faudree, R. Gould, M. Jacobson, and L. Lesniak)

[46]. 2*-factors in claw-free graphs*, **Discuss. Math. Graph Theory**, 20 (2000), no. 2, 165-172 (with J. Faudree, R. Gould, and A. Saito)

1999

[45]. *On 2-factors containing 1-factors in bipartite graphs,* **Discrete Math**, 197-198 (1999), 185-194 (with R. Gould and M. Jacobson)

[44]. *On harmonious and related colorings of graphs*, **Paul Erdős and his mathematics** (Budapest, 1999), 50-53, János Bolyai Math. Soc., Budapest, 1999 (with G. Domke, J. Hattngh, R. Laskar)

[43]. *On the upper line-distinguishing and upper harmonious chromatic numbers of a graph,* Papers in honour of Stephen T. Hedetniemi, **J. Combin. Math. Combin. Comput.**, 31 (1999), 227-239 (with G. Domke, J. Hattingh, and R. Laskar)

1998

[42]. *Tough enough chordal graphs are hamiltonian*, **Networks**, 31 (1998), no. 1, 29-38 (with M. Jacobson, A. Kézdy, and J. Lehel)

[41]. *Intersection of longest cycles in k-connected graphs,* **J. Combin. Theory Ser. B**, 72 (1998), no. 1, 143-149. (with R. Gould and R. Faudree)

[40]. *Mixed Ramsey numbers: total chromatic numbers versus stars,* **Australas. J. Combin.,** 17 (1988), 157-168 (with N. Achuthan)

[39]. *Note on Whitney's theorem for k-connected graphs*, **ARS Combin.,** 49 (1998), 33-40 (with R. Faudree and W. Warren)

[38]. *Star-factors of tournaments*, **J. Graph Theory**, 28 (1998), no. 3, 141-145 (with X. Lu and D. West)

[37]. *Note on graphs without repeated cycle lengths*, **J. Graph Theory**, 29 (1998), no. 1, 11-15 (with M. Jacobson, J. Lehel, and W. Shreve)

[36]. *Vertex colorings with a distance restriction,* Graph Theory (Elgersburg, 1996), **Discrete Math**, 191 (1998), 65-82 (with A. Gyárfárs and R. Schelp)

[35]. *Ramsey number for irregular graphs,* **Congr. Numer.**, 135 (1998), 139-145 (with P. Erdős and W. Shreve)

1997

[34]. *Graphs with given odd sets*, **J. Graph Theory**, 24 (1997), no. 1, 69-80. (with R.H. Schelp, and L. S̈olteés)

[33]. *Special monochromatic trees in two-colored complete graphs*, **J. Graph Theory**, 24 (1997), no. 1, 59-67 (with R. Schelp, and L. S̈olteés)

[32]. *Degree conditions for* 2*-factors*, **J. Graph Theory**, 24 (1997), no. 2, 165-173 (with S. Brandt, R. Faudree, R. Gould, and L. Lesniak)

[31]. *A new game chromatical numbers*, **European J. Combin.,** 18 (1997), no. 1, 1-9 (with R. Schelp and W. Shreve)

[30]. *A result on* C_4*-star Ramsey numbers*, **Discrete Math**, 163 (1997), no. 1-3, 243-246

[29]. *A class of edge critical* 4*-chromatic graphs*, **Graphs Combin.**, (1997) 13, no. 2, 139-146 (with A. Gyárfárs and R. Schelp)

[28]. *A special* k*-coloring for a connected* k*-chromatic graph*, **Discrete math**, 170 (1997), no. 1-3, 231-236 (with R. Schelp and W. Shreve)

[27]. *Can One Load a Set of Dice So That the Sum Is Uniformly Distributed?*, **Math. Mag.,** 70 (1997), no. 3, 204 -206 (with M. Rao and W. Shreve)

[26]. *Hamiltonian graphs with large neighborhood unions*, **Ars Combin.,** 46 (1997), 227-238 (with Y. Liu)

[25]. *Degree sum conditions for hamiltonicity on* K*-partite graphs*, **Graphs Combin.**, 13 (1997), 325-343 (with M. Jacobson)

1996

[24]. *Proof of a conjecture of Bollobás on nested cycles*, **J. Combin. Theory Ser. B**, 66 (1996), no. 1, 38-43 (with P. Erdős and W. Staton)

[23]. *A partition approach to Vizing's conjecture*, **J. Graph Theory**, 21 (1996), no. 1, 103-111 (with W. Piotrawski and W. Shreve)

[22]. *Essential independent sets and hamiltonian cycles*, **J. Graph Theory**, 21 (1996), no. 2, 243-250 (with Y. Egawa, X. Liu, and A. Saito)

1995

[21]. *The irredundant Ramsey number* $s(3,7)$, **J. Graph Theory,** 19 (1995), no. 2, 263-270 (with C. Rousseau)

[20]. *Vertex disjoint cycles for star free graphs*, **Australas. J. Combin.,** 11 (1995), 157-167. (with L. Markus and R. Schelp)

[19]. *Degree sequences with single repetitions,* **Congr. Numer.,** 106 (1995), 27-32 (with W. Piotrawski and W. Shreve)

[18]. *Clique partitions of split graphs*, **Combinatorics, graph theory, algorithms and applications** (Beijing, 1993), 21-30, World Sci. Publ., River Edge, NJ, 1994 (with P. Erdős and Ordman)

[17]. *Hamiltonicity for $K_{1,r}$-free graphs*, **J. Graph Theory**, 20 (1995), no. 4, 423-439 (with R. Schelp)

[16]. *Hamiltonicity in balanced k-partite graphs*, **Graphs Combin.,** 11(1995), 221-231 (with F. Faudree, R. Gould, M. Jacobson, and L. Lesniak)

1994

[15]. *Graphs with a cycle of length divisible by three*, **J. Combin. Theory Ser B** 60 (1994), no. 2, 277-292 (with A. Saito)

[14]. *Hamiltonian graphs with neighborhood intersections*, **J. Graph Theory**, 18 (1994), no. 5, 497-513. (with R. Schelp)

[13]. *Neighborhood unions and the cycle cover number of a graph*, **J. Graph Theory** 18 (1994), no. 7, 663-672. (with R. Gould, M. Jacobson, and R. Schelp)

1993

[12]. *Hamiltonian graphs involving neighborhood intersections*, **Discrete Math**, 112 (1993), no. 1-3, 253-257

[11]. *Graphs with linear bounded Ramsey numbers,* **J. Combin. Theory Ser. B**, 57 (1993), 138-149 (with R. Schelp)

[10]. *A generalization of Fan's Condition for hamiltonicity, pancyclicity, and Hamiltonian connectedness,* **Discrete Math**, 115 (1993), no. 1-3, 39-50 (with P. Bedrossian and R. Schelp)

[9]. *Asymptotic bounds for irredundant and mixed Ramsey numbers*, **J. Graph Theory**, 17 (1993), 193-206. (with J. Hattingh and C. Rousseau)

[8]. *Ramsey problems involving degrees in edge-colored complete graphs of vertices belonging to monochromatic subgraphs*, **European J. Combin.,** 14 (1993), no. 3, 183-189. (with P. Erdős, C. Rousseau, and R. Schelp)

[7]. *Ramsey problems with bounded degree spread,* **Combin. Probab. Comput.,** 2 (1993), 263-269. (with R. Schelp)

[6]. *Graphs with cycles 2 mod k*, **Congr. Numer.,** 93 (1993), 177-182. (with N. Dean and W. Shreve)

1992

[5]. *Hamiltonian graphs involving distances*, **J. Graph Theory**, 16 (1992), no. 2, 121-129 (with R. Schelp)

[4]. *On k-girth graphs*, **Congr. Numer.,** 89 (1992), 193-207 (with R. Schelp and W. Shreve)

[3]. *A characterization of influence graphs of a prescribed graph*, **Vishwa Internat. J. Graph Theory,** 1 (1992), no. 1, 77-81. (with R. Gould, M. Jacobson, R. Schelp, and D. West)

1991

[2]. *A degree condition for hamiltonian cycles in t-tough graphs with $t > 1$*, **Advances in Graph Theory**, 19-32, Vishwa, Gulbarga, 1991 (with D. Bauer and L. Lasser)

1990

[1]. *One sufficient condition for hamiltonian graphs*, **J. Graph Theory**, 14 (1990), no. 4, 501-508.

Accepted

[1]. *Nonempty Intersection of Longest Paths in Series-Parallel Graphs* **Discrete Mathematics** (with J. Ehrenmüller, C.G. Fernander, C. Heise, S. Shan, P. Yang, A. Yates)

[2]. *Saturation numbers for linear forests* (with J. Faudree, R. Faudree, R. Gould, M. Jacobson, and C. Magnant)

[3]. *Bayesian Inference for Functional Dynamics Exploring in fMRI Data*, **Computational and Mathematical Methods in Medicine**, (with Xuan Guo, Bing Liu, Le Chen, Guantao Chen, Yi Pan and Jing Zhang)

Submitted

[1]. *Vizing's 2-factor conjecture involving large maximum degree* (with S. Shan)

[3]. *Dynamic basin brain network partition and connectivity change point detection*, (with Z. Lian, X. LI, B. Liu, L.Fu, L. Xiao, T. Liu, and J. Zhang)

[4]. *A new connectivity bound for linkages and its application to the Hadwiger's conjecture*, (with Z. Hu and F. Song)

[5]. *Chromatic index determined by fractional chromatic index*, (with Y. Gao and S. Shan)

In preparation

[1]. *Proof of a conjecture of Jackson and Wormald on Circumferences of 3-connected graphs with bounded degrees* (with Z. Gao, S. Shan, X. Yu, and W. Zhan)

[2]. *Percolation on dense graphs* (with van der Holst, N. Li, S. Shan, and P. Yang)

[3]. *On union-closed sets conjecture* (with A. Kostochka and N. Li)

[4]. *Long Cycles in k-Connected Graphs Involving Independence Numbers of Subgraphs* (with Z. Hu and Y. Wu)

[5]. *Dirac's condition for spanning Halin subgraphs* (with S. Shan and P. Yang)

[6]. *Minimum degree condition for spanning generalized Halin graphs* (with S. Shan and P. Yang)

[7]. *Forbidden pairs and the existence of a spanning Halin subgraph*, (with J. Han, S. O, S. Shan, and S. Tsuchiya)

[8]. *Difference of forbidden pairs containing a claw*, (with M. Furuya, S. Shan, S. Tsuchiya, and P. Yang)

RESEARCH PRESENTATIONS AND COLLOQUIA

INVITED:

1991 *Ramsey numbers for planar graphs*, Dimacs Planar Graph Workshop, Rutgers Univ. New Jersey, November

1993 *Longest cycles involving cliques*, 6th Cumberland Conference on Graph Theory and Computing, Rhodes College, Memphis, Tennessee, May

Mixed Ramsey numbers involving total chromatic numbers and stars, 881st Amer. Math. Soc. Meeting Washington, D.C. April

On hamiltonian graphs, University of Louisville, Louisville, KY, September

Hamiltonicity for claw-free graphs, West Virginia University, Morgantown, WV, December

Hamiltonicity involving stars, University of Mississippi, University, MS, December

1995 *Proof of a conjecture of Bollobás on nested cycles*, 8th Cumberland Conference on Graph Theory and Computing, Vanderbilt University, Nashville, TN, May

1996 *Hamiltonicity of bipartite graphs*, 9th Cumberland Conference on Graph Theory and Computing, University of Mississippi, Oxford, MS, May

Hamiltonicity for k-partite Graphs, INFOR 96, Vancouver, BC, Canada, June

1997 *Cliques covering the edges of a locally cobipartite graph*, 919th AMS meeting, Memphis, TN, April

Cliques covering edges, North Dakota State University, Fargo, ND, April

Intersections of longest cycles in connected graphs, 10th Cumberland Conference on Graph Theory and Computing, Emory University, Atlanta, GA, May

Tough enough chordal graphs are hamiltonian, Laboratoir dë Recherché en Informatique, Universite Paris-Sud, Ossay, France, July

1998 *Partitioning tournaments into cycles*, 937th AMS Meeting, Louisville, KY, May

Extreme graph theory, 4 hour plenary lectures, 98 Graph Theory Symposium, Nanjing, China, April

Intersections of longest cycles, Institute of Systems Science, Chinese Academy of Sciences, Beijing, China, June

Regularity Lemma and its applications, A three-day series lecture, Huazhong Normal University, Wuhan, China, June

Connectivities after path removal, Workshop on paths and cycles, DIMACS, New Jersey, July

Hamiltonian graphs, Clemson mini-conference, Clemson, NC, September

Hamiltonian graphs and forbidden subgraphs, ACCOTA 98 (Combinatorial and Computational Aspects of Optimization, Topology and Algebra), Oaxaca, Oax., Mexico, December

1999 *Longest cycles in planar graphs*, West Virginia University, WV, April

Longest cycles in 3*-connected graphs*, 12th Cumberland Conference on Graph Theory, Combinatorics, and Computing, University of Louisville, Louisville, KY, May

Long cycles in planar graphs, Institute of Systems Science, Chinese Academy of Sciences, Beijing, China, July

Longest cycles in planar graphs, Keio University, Tokyo, Japan, August

2000 *Longest cycles in k-connected graphs*, Graph Theory 2000, Nanjing, China, June

Fragile graphs, First AMS-Hong Kong Mathematics Society Joint Conference, Hong Kong, December

Cycles in k-connected graphs, University of Memphis, Memphis, TN, October

Fragile graphs, Tsinghua University, Beijing, China, December

2001 *Monochromatic coloring via total multicoloring of trees*, Fourteenth Cumberland Conference on Combinatorics, Graph Theory, and Computing, Memphis, TN, May

Toughness and hamiltonicity, The CAS International Conference on Graph Theory and Combinatorics, Kuming, China, June

The circumferences of 3*-connected graphs*, Huazhong Normal University, Wuhan, China, July

Hamiltonian graphs, Nanjing Normal University, Nanjing, China, July

Extremal graphs for intersecting cliques, 2001 Fall AMS Southeastern Section Meeting 970, Chattanooga, TN, October

Longest cycles in 3*-connected graphs*, Clemson University, SC, November

2002 *Graph minors and linkages*, Fifteenth Cumberland Conference on Combinatorics, Graph Theory, and Computing, Oxford, MS, May

Cycles in digraphs, AMS 2002 Fall Southeastern Section Meeting, AMS 982, Orlando, FL, November

Long cycles in 3-connected graphs, VIGRE Seminar, Department of Mathematics, University of Georgia, Athens, GA, October

Circumferences of 3-connected graphs, Department of Mathematics, Middle Tennessee State University, Murfreesboro, TN, November

2003 *Long cycles in graphs without* $K_{3,t}$*-minors*, School of Mathematics, Georgia Institute of Technology, GA, February

Circumference of 3-connected graphs, SIAM/MAA at Clemson, Clemson University, SC, March

Longest cycles in 3-connected graph without $K_{3,t}$*-minor*, AMS 2003 Spring Central Section Meeting, AMS 985, Bloomington, IN, April

Cycle extendabilities for special graphs, AMS 2003 Joint Central and Western Section Meeting Boulder, AMS 989, CO, October

2004 *Plane graphs with positive curvatures*, Department of Mathematics, University of Mississippi, MS, April

Graphs with positive curvatures, Seventeenth Cumberland Conference on Combinatorics, Graph Theory, and Computing, Murfreesboro, TN, May

Problems on cycles and paths in graph theory, SIAM conference on Discrete Mathematics, Nashville, TN, June

Graphs with positive curvatures, 10th Anniversary of the Institute of Mathematics, East China Normal University, Shanghai, China, June

Finding long cycles in 3*-connected graphs*, Nanjing Normal University, Nanjing, China, June

Long cycles in 3*-connected graphs*, Huazhong Normal University, Wuhan, China, July

Finding long cycles, The first Chinese Graph Theory and Combinatorics Conference, Xinjiang, China, August

Finding long cycles in special graphs, The 19th Clemson Mini-Conference on Combinatorial Optimization, Clemson, October

An interlacing result on normalized Laplacians, AMS 2004 Fall Southeastern Section Meeting, AMS 999, Nashville, TN, October

Long cycles in special graphs, University of Colorado at Denver, CO, October

2005 *Hamiltonian Cycles with Small Even Chords.* The Joint Mathematics Meetings(AMS 111), Atlanta, GA, January

Characterizations of [1,k]-Bar Visibility Trees, Graph Theory with Altitude Conference – in Honor of Joan P Hutchinson on the Occasion of her 60th Birthday, Denver, CO, May

The El-Zahar Conjecture and the Surrounding Problems (one hour plenary talk), Japan Workshop on Graph Theory and Combinatorics 2005 – in honor of Hikoe Enomoto's 60th birthday, Yokohama, Japan, June

Problems in Graph Theory, The Mathematics and system Science Institute, Chinese Academy of Sciences, Beijing, China, July

The El-Zahar Conjecture and the Surrounding Problems, East China Normal University, Shanghai, China, August

2006 *Linkages with Modulo Constrains*, AMS Annual Meeting at San Antonio – SIAM Minisymposium on Graph Drawing, Texas, January

Finding long cycles in 3-connected graphs, Clemson, February

The El-Zahar Conjecture and the Surrounding Problems, University of Mississippi, Oxford, MS, March

Finding long cycles in 3-connected graphs, Central China Normal University, Wuhan, China, July

Circumferences of 3-connected graphs, Easer China Normal University, Shanghai, China

Finding Long Cycles in 3-connected Graphs, Workshop Cycles and Colourings'06, Tatransk Štrba, Slovakia, September, Plenary Speaker

Finding Long Cycles in 3-connected Graphs, University Of Central Florida, Orlando, FL, October

Linkages with Modulo Constraints, EXCILL: Extremal Combinatorics at Illinois, Urbana, IL, November

2007 *Circumferences of 3-connected graphs without $K_{3,t}$-minor*, The Joint Mathematics Meetings(AMS 113), New Orleans, LA, January

Minimal generators of cut-ideals of graphs without K_4-minors, AMS Spring Central Section Meeting (AMS 1025), Oxford, OH, March

Toric Cut Ideals of Graphs with Forbidden Minors, Middle Tennessee State University, Murfreesboro, TN, April

Minimal generators of cut-ideals of graphs without K_4-minors, International Symposium on Graph Theory and Combinatorial Algorithms, Beijing, China, July

Finding long cycles in 3-connected graphs, Hubei University, Wuhan, China. May

Circumferences of 3-connected graphs, China Three Gorges University, Yichang, China, July

Partitioning tournaments into two transitive subtournaments , AMS Fall Southeastern Meeting (AMS 1033), Murfreesboro, TN, November

A web-based customizable decision-making tool to optimize health resources: the example of screening and treating asymptomatic women for sexually transmitted diseases, Social and Behavioral Science Symposium(CDC and GSU), Atlanta, Novermber

2008 *Small 3-connected dominating sets in a 3-connected graph*, 32nd SIAM Southeastern-Atlantic Section Conference, Orlando, FL, March

Polynomial algorithms for graphs with bounded parameter-tree-width, 21st Cumberland Conference on Graph Theory, Combinatorics, and Computing - In Honor of Mike Plummer's 70th Birthday, Nashville, TN, May

Polynomial algorithms for graphs with bounded parameter-tree-width, International Conference on Interdisciplinary Mathematical and Statistical Techniques - IMST 2008 / FIM XVI, Memphis, TN, May

Long cycles in 4-connected graphs, 2008 Fall Southeastern Meeting, Huntsville, AL, October

Problems on Tournaments, Central China Normal University, Wuhan, China, June

2009 *On the even hamiltonian square graphs*, 2009 AMS Spring Central Section Meeting, Urbana, IL, March
On the even hamiltonian square graphs 33rd SIAM Southeastern-Atlantic Section Conference, Columbia, SC, April
Path Spectra, 22nd Cumberland Conference on Combinatorics, Graph Theory and Computing, Bowling Green, May
On hamiltonian square graphs Hubei University, Wuhan, China, June
Topics in graph theory and its applications – Five 3-hour series talks, The 2009 Shanghai Summer Graduate Students Workshop on Operations Research, Shanghai, China, July
Graph edge coloring involving edge density, 2009 AMS Fall Southeastern Section Meeting, Baco Raton, FL, November
Graph edge coloring, Hubei University, Wuhan, China, December,
Graph edge coloring, Discrete Mathematics Center, Fuzhou University, China, December

2010 *Chromatic index of multiple graphs*, College of William and Mary, VA, February
The Fouquet-Jolivet conjecture on the circumference of a k-connected graphs, 8th French Combinatorial Conference, Orsay, June
Cycles in Digraphs, Central Normal University, Wuhan, China, July
Hamiltonian graphs involving degrees, neighborhood unions, and neighborhood intersections, International Symposium on Graph Theory and Combinatorial Algorithms (GTCA'2010), Beijing, China, August *The Fouquet-Jolivet conjecture on the circumference of a k-connected*, Hubei University, Wuhan, China, July
Long cycles in 3-connected graphs with bounded degrees, Georgia Institute of Technology, Atlanta, GA, October
Circumferences of graphs, University of Mississippi, MS, October
Long cycles in 3-connected graphs with bounded degrees, University of Memphis, Memphis, TN, October
The Fouquet-Jolivet conjecture on the circumference of a k-connected, AMS 2010 Southeastern Section Meeting, Richmond, VA, November

2011 *Graphs with linear Ramsey numbers*, Erdős Lecture Series, Memphis, TN, May
A few problems surrounding spanning trees, Wuhan Graph Theory Workshop, Wuhan, China, June
Homeomorphically irreducible spanning trees in locally connected graphs,International Symposium on Graph Theory and Combinatorial Algorithms (GTCA'2011), Beijing, China, July
Homeomorphically Irreducible Spanning Trees in Locally Connected Graphs, East China Normal University, Shanghai, China, July
Long cycles in 3-connected graphs, East China University of Science and Technology, China, July
Finding long cycles, Yale University, New Haven, CT, September
Graphs containing homeomorphically irreducible spanning Trees, AMS Fall Southeastern Meeting (1073), Wake Forest University, NC, September

2012 *Homeomorphically irreducible spanning trees*, 2012 SIAM Conference on Discrete Mathematics, Dalhousie University, Halifax, Canada, June
Homeomorphically irreducible spanning trees, International Conference on Cycles in Graphs, Vanderbilt University, Nashville, TN, June
Claw-free graphs, Central China Normal University, Wuhan, China, June
Homeomorphically irreducible spanning trees, Hubei University, Wuhan, China, June
Phase transitions in highly edge-connected graphs, AMS 2012 Spring Southeastern Meeting, Tampa, FL, March
Homeomorphically irreducible spanning trees, AMS 2012 Spring Eastern Sectional Meeting, Washington DC, March
On Maximum Edge Cuts of Connected Digraphs, 36th Annual SIAM Southeastern Atlantic Section Conference, Huntsville, AL, March

2013 *Hadwiger conjecture for degree sequences*, AMS Spring Southeastern Sectional Meeting (1087), Oxford, MS, March
Phase transition of dense graphs, EXCILL2: Extremal Combinatorics at Illinois, Urbana-Champaign, IL, March
Finding long cycles and large trees in graphs, National Institute of Standards and Technology, Maryland, May
Circumferences in graphs (one hour plenary talk), The 2013 Graph Theory and Combinatorial Optimization Workshop, Xinjiang, China, June
Circumferences in graphs (one hour plenary talk), The 2013 Graph and Combinatorics Conference, Hefei, China, June
Long cycles and special spanning trees (colloquium), Department of Mathematics, Zhejiang Normal University, Jinhua, Chian, May
Hadwiger conjecture for degree sequences (colloquium), Discrete Mathematics Center, Fuzhou University, Fuzhou, China, June
Spanning Halin subgraphs, Faculty of Mathematics and Computer Science, Hubei University, Wuhan, China, June
Hadwiger conjecture for degree sequences (colloquium), Faculty of Mathematics and Statistics, Central China Normal University, Wuhan, China, June
Triangulations on the plane without spanning Halin subgraph, AMS Fall Southeastern Sectional Meeting (1092), Louisville, KY, October

2014 *Spanning trees and spanning Halin graphs*, AMS Southeastern Spring Sectional Meeting (1097), Knoxville, TN, March
Long cycles in graphs with bounded degrees, SIAM Discrete Math 14, Minneapolis, MN, May
Vizing's 2-factor conjecture involving large maximum degree Workshop in Combinatorics and Graph Theory, Changsha, China, May
Long cycles and spanning trees in planar graphs and beyond, Academy of Mathematics and Systems Science, Chinese Academy of Sciences, Beijing, China, July
Hadwiger conjecture for degree sequence, DIMACS, Fuzhou University, Fuzhou, China, July
Long cycles and spanning trees in planar graphs and beyond, East China University of Science and Technology, Shanghai, China, July
On Hadwiger conjecture , Central China Normal University, Wuhan, China, August *Vizing 2-factor conjecture with large maximum degree*, AMS Central Fall Section Meeting (1102), Eau Claire, WI, September *Lovász-Plummer conjecture on Spanning Halin subgraphs and Beyond*, Central China Normal University, Wuhan, China, December

2015 *Forbidden pairs for spanning Halin subgraphs*, AMS Spring Southeastern Sectional Meeting (1109), Huntsville, AL, March
Who wants to be a mathematicians, Atlanta Science Fair, Atlanta, GA, March
Forbidden pairs for spanning Halin subgraphs, University of West Virginia, Morgantown, WV, March
Lovász-Plummer conjecture on spanning Halin subgraphs, Graph Theory Workshop , Fuzhou, China, April
Long cycles and spanning trees in planar graphs and beyond, Auburn University, Auburn, AL, May
On extremal combinatorics, A series of 5 talks, East China University of Science and Technology, Shanghai, China, May-June
Lovász-Plummer conjecture on spanning Halin subgraphs, Central China Normal University, Wuhan, China, June
Linkage and Hadwiger's conjecture, AMS Central Fall Central Section Meeting, Chicago, IL, October
On Goldberg's conjecture, Middle Tennessee State University, Murfreesboro, TN, October
On Goldberg's conjecture, AMS Fall Southeastern Section Meeting, Memphis, TN, October
On Goldberg's conjecture, University of West Georgia, Carrollton, GA, October
On graph edge coloring, Central China Normal University, Wuhan, China, December

CONTRIBUTED:

1987 *A sufficient condition for hamiltonian connected graphs*, Fifth China Graph Theory Conference, Lanzhou, China, July

The longest cycles in 2*-connected graphs*, Third China Combinatorics Conference, Souzhou, China, April

1989 *A new sufficient condition for hamiltonian graphs*, Second China-USA Graph Theory Conference, San Francisco, CA, June

1991 *A class of graphs with linear bounded Ramsey numbers*, Twenty-second S.E. Conference on Combinatorics, Graph Theory, and Computing, Baton Rouge, LA, February

Hamiltonian graphs involving neighborhood intersections. Fourth Cumberland Conference on Graph Algorithms and Combinatorics, Atlanta, GA, May

1993 *Hamiltonian graphs with large neighborhood unions*, Twenty-fourth S.E. Conference on Combinatorics, Graph Theory, and Computing, Boca Raton, FL, March

1994 *A result on Whitney's theorem for* k*-connected graphs*, Twenty-fifth S.E. Conference on Combinatorics, Graph Theory, and Computing, Boca Raton, FL, March

Ramsey number for stars and cycles of length 4, Twenty-fourth Manitoba Conference on Combinatorial Mathematics and Combinatorial Computing, Winnipeg, Canada, October

1995 *Hamiltonicity for star-free graphs*, Twenty-sixth S.E. Conference on Combinatorics, Graph Theory, and Computing, Boca Raton, FL, March

1996 *Hamiltonian-connected graphs with forbidden pairs*, Twenty-seventh S.E. Conference on Combinatorics, Graph Theory, and Computing, Boca Raton, FL, March