Sulin Song

Contact Information	WTAMU Mathematics WTAMU Box 60787	Phone: (304) 276-6465
	Canyon, Texas 79016	<i>E-mail:</i> ssong@wtamu.edu
Education	West Virginia University, Morgantown, West Virginia, USA	
	Ph.D., Discrete Mathematics, August 2022	
	Dissertation Title: "On Generalizations of Supereulerian Graphs"Advisor: Hong-Jian Lai	
	Fujian Normal University, Fuzhou, Fujian, PRC	
	M.S., Operational Research and Cybernetics, June 2016	
	Jimei University, Xiamen, Fujian, PRC	
	B.S., Mathematics and A _I	pplied Mathematics, June 2013
TEACHING EXPERIENCE	West Texas A&M University, Canyon, Texas USA	
	Instructor Taught undergraduate-level homework assignments, and	August 2022 - Present courses for students, and was responsible for lectures, exams, grading.
	Math 2413 - Calculus I, FMath 2412 - Precalculus,	Fall 2022 & Spring 2023 Fall 2022
	West Virginia University, Morgantown, West Virginia USA	
	Instructor August 20 Taught undergraduate-level of dents with worksheets create	D20 - December 2020 & August 2021 - December 2021 courses for students, was responsible for lectures, tutoring studed by myself, and grading.
	Math 104 - Algebra withMath 124/104 - Algebra	Applications Co-Requisite, Fall 2021 with Applications, Fall 2020
	Class Assistant Tutored students via virtual proctored and graded.	January 2021 - May 2021 & January 2022 - May 2022 l meetings per week, provided homework solutions in detail,
	 Math 378 - Discrete Math Math 156 - Calculus 2, Sp 	nematics, Spring 2021 pring 2022
	Lab Assistant Tutored students with works not limited to the course below	January 2020 - May 2020 sheets and provided a review class before exams including but ow:
	• Math 154 - Calculus 1b w	vith Precalculus
	Teaching Assistant Graded and assisted the follo Multivariable Calculus, Eleme ogy and Calculus II.	August 2017 - December 2019 owing courses: entary Differential Equations, Introduction to Analysis and Topol-
Awards and Achievement	Summer Research Fellowship	o, West Virginia University, 2021
	Excellent Graduation Paper, Fujian Normal University, 2016	
	National Scholarship for Graduate Students, Fujian Normal University, 2015	

The Third Prize of Graduate Students' Scientific Research Achievement in university, Fujian Normal University, 2015 Research Graph theory, combinatorial optimization, algorithm analysis, network optimization and INTERESTS diagnosis Spanning trails avoiding and containing given edges (with L. Lei, X. Li, Y. Xie, and H.-J. PUBLICATIONS Lai), accepted by Discussiones Mathematicae Graph Theory in 2023. On Hamiltonian Properties of K_{1,r}-free Split Graphs (with X. Liu, M. Zhan, and H.-J. Lai), Discrete Mathematics, 346(7) (2023): 113402. Asymptotically sharpening the s-Hamiltonian index bound (with L. Lei, Y. Shao, and H.-J. Lai), Discrete Mathematics & Theoretical Computer Science, 24(1) (2022). Hamiltonian Line Graphs with Local Degree Conditions (with X. Liu and H.-J. Lai), Discrete Mathematics, 345(6) (2022): 112825. On hamiltonian line graphs of hypergraphs (with X. Gu and H.-J. Lai), J. Graph Theory, 100(3) (2022): 489-503. Polynomially determine if a graph is (s, 3)-superculerian (with W. Xiong and H.-J. Lai), Discrete Mathematics, 344(12) (2021): 112601. Spectral and extremal conditions for supereulerian graphs (with J. Wei, Z. You, and H.-J. Lai), Linear and Multilinear Algebra, https://doi.org/10.1080/03081087.2021.1942772 (online publication). Polynomially determining spanning connectivity of locally connected line graphs (with W. Xiong, Y. Xie, M. Zhan, and H.-J. Lai), Discrete Applied Mathematics, 295(31) (2021): 102-111. A Characterization of Graphs with Superculerian Line Graphs (with Y. Huang, W. He, G. Huang, and H.-J. Lai), International Journal of Computer Mathematics Computer Systems Theory, 5(1) (2019): 1-14. On conditional fault tolerance and diagnosability of hierarchical cubic networks (with S. Zhou, X. Yang, and L. Chen), Theoretical Computer Science, 609 (2016): 421-433. Conditional Diagnosability of Burnt Pancake Networks Under the PMC Model (with S. Zhou and X. Li), The Computer Journal, 59(1) (2016): 91-105. Fault tolerance and diagnosability of burnt pancake networks under the comparison model (with X. Li, S. Zhou, and M. Chen), Theoretical Computer Science, 582 (2015): 48-59. The t/k-diagnosability and diagnosis algorithm of Pancake networks (with L. Lin and S. Zhou), Operations Research Transactions, 18(4) (2014): 65-77. On Hamiltonian Properties of $K_{1,r}$ -Free Split Graphs, The 32^{nd} Cumberland Conference Conference Combinatorics, Graph Theory & Computing, Middle Tennessee State University, Murfrees-Presentations boro, TN, May 13-14, 2023 (Saturday - Sunday). On Spanning Closed Trails of Hypergraphs, 2023 Spring Southeastern Sectional Meeting, Georgia Institute of Technology, Atlanta, GA, March 18-19, 2023 (Saturday - Sunday). On Hamiltonian Line Graphs of Hypergraphs, 2022 Workshop on Eulerian Subgraphs and

Related Problems, Online, November 2022.

On Hamiltonian Line Graphs of Hypergraphs, 2022 Joint Mathematics Meetings, Online, April 2022.

The k-Triangular Index of Graphs and Its Application, 2020 International Euler Subgraph Problem Online Conference, Qinghai Nationalities University, December 2020.

Reliability of burnt pancake networks based on conditional fault, MIGHTY LXII (The 62th Midwest Graph Theory Conference), Ohio State University - Marion, Marion, OH, October 2019.

A Sufficient and Necessary Characterization of Supereulerian Line Graphs, MIGHTY LXI (The 61th Midwest Graph Theory Conference), University of Detroit Mercy, Detroit, MI, March 2019.