

Meng Zhang

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Education

August 2011 - August 2015	West Virginia University , Morgantown, WV, USA Ph.D. in Mathematics
September 2008 - July 2011	South China Normal University , Guangzhou, Guangdong, China M.S. in Mathematics
September 2004 - July 2008	South China Normal University , Guangzhou, Guangdong, China B.S. in Mathematics and Applied Mathematics

Employment

August 2015 - present	Instructor, University of West Georgia
August 2011 - August 2015	Graduate Teaching Assistant, West Virginia University

License

- China Mathematics Teaching License

Courses Taught

- College Algebra
- Precalculus
- Trigonometry
- Calculus I
- Calculus II
- Differential Equations

Research Interests

Discrete Mathematics, Combinatorics, and Graph Theory. Specific interests include chemical indices for graphs, supereulerian problems, hamiltonian graphs, collapsible graphs, spanning trails problems, Steiner Tree Packing problems.

Published/Submitted Papers

- **Spanning Trails with Variations of Chvátal-Erdős Conditions**, (with Zhi-Hong Chen and Hong-Jian Lai), (*submitted, 2015*).
- **Degree sequence realizations with given packing and covering of spanning trees**, (with Fengxia Liu, Zhao Zhang, Hong-Jian Lai), *Discrete Applied Mathematics* 185 (2015) 113-118.

- **Spanning Trails in Essentially 4-edge-connected Graphs**, (with Jinquan Xu, Zhi-Hong Chen and Hong-Jian Lai), *Discrete Applied Mathematics*, 162 (2014) 306-313.
- **Supereulerian Graphs and the Petersen Graph**, (with Xiaomin Li, Lan Lei and Hong-Jian Lai), *Acta Mathematica Sinica, English Series*, 30 (2014) 291-304.
- **Hamilton Cycles in 3-connected Claw-free and Net-free Graph**, (with Wei Xiong, Hong-Jian Lai, Xiaoling Ma and Keke Wang) *Discrete Mathematics*, 313 (2013), 784-795.
- **Comparing the Variable Zagreb Indices for Graphs**, (with Bolian Liu and Yufei Huang), *MATCH Commun. Math. Comput. Chem.*, 65, no. 3, (2011) 671-684.
- **On a Conjecture about the Randić Index and Diameter**, (with Bolian Liu), *MATCH Commun. Math. Comput. Chem.*, 64, no. 2, (2010) 433-442.
- **On Comparing Variable Zagreb Indices for Unicyclic Graphs**, (with Bolian Liu), *MATCH Commun. Math. Comput. Chem.*, 63, no. 2, (2010) 461-468.
- **On Comparing the Variable Zagreb Indices**, (with Yufei Huang and Bolian Liu), *MATCH Commun. Math. Comput. Chem.*, 63, no. 2, (2010) 453-460.

Attended Conferences and Talks

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| October 2014 | MIGHTY LVI (56 th Midwest Graph Theory Conference)
Indiana University-Purdue University Fort Wayne, Fort Wayne, IN, USA
Talk: <i>Spanning Trail with Independence Number</i> |
| May 2014 | 27 th Cumberland Conference on Combinatorics, Graph Theory & Computing
West Virginia University, Morgantown, WV, USA
(Session Chair)
Talk: <i>Supereulerian Graphs and Matching Number</i> |
| March 2014 | MIGHTY LV (55 th Midwest Graph Theory Conference)
University of Detroit Mercy, Detroit, MI, USA
Talk: <i>Supereulerian Graphs and Independence Number</i> |
| June 2013 | 2013 - Workshop on Graph Theory and Combinatorics
University of Science and Technology of China, Hefei, Anhui, China
Talk: <i>Spanning Trails in Essentially 4-edge-connected Graphs</i> |
| April 2013 | MIGHTY LIV (54 th Midwest Graph Theory Conference)
Miami University, Oxford, OH, USA
Talk: <i>Supereulerian Graphs and The Petersen Graph</i> |
| May 2012 | 25 th Cumberland Conference on Combinatorics, Graph Theory & Computing
East Tennessee State University, Johnson City, TN, USA
Talk: <i>Hamiltonicity of 3-connected claw-free graphs</i> |

Professional Service

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| March 2014 | Reviewer for AMS Mathematical Reviews |
| September 2012 | Membership of American Mathematical Society (AMS) |

Research Grant

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| August 2010 | Member of NNSF (National Natural Science Foundation) of China (No.11071088)
<i>The Index and Spectra Theory in the Combinatorial Matrix Theory</i> |
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