Public Curriculum Vitae

Yi Zhang

Department of Mathematical Sciences, School of Natural Sciences & Mathematics
800 West Campbell Road, Mail Station FO 35, Richardson, Texas 75080-3021
Email: Yi.Zhang@UTDallas.edu, Office: BSB 11.334

Education History

February 15th, 2017	Ph.D. in Mathematics with distinction, Institute for Algebra, Johannes Kepler University Linz, Austria. Dissertation Title: *Univarite Contraction and Multivariate Desingularization of Ore Ideals.*
July 3rd, 2016	Ph.D. in Applied Mathematics, Key Laboratory of Mathematics Mechanization, Academy of Mathematics and Systems Science, University of Academy of Sciences, Beijing, China. Dissertation Title: *Algorithms for Contraction of Linear Differential and Difference Operators.*
June 30th, 2011	B.Sc. in Mathematics, School of Mathematical Sciences, Soochow University, Suzhou, China.

Teaching Experience

09/2010 – 10/2010	Teaching internship in Xi'an Jiaotong-Liverpool University Affiliated School, Suzhou, China.

Significant Professional Publications

1. N. Thieu Vo and Yi Zhang. *Rational Solutions of High-Order Algebraic Ordinary Differential Equations*, 2018, arXiv:1709.04174, accepted by Journal of Systems Sciences and Complexity.

2. Ting Guo, Christian Krattenthaler and Yi Zhang. *On (shape-)Wilf-equivalence for words*, 2018. *Advances in Applied Mathematics*, 100, pp. 87-100, 2018. DOI:10.1016/j.aam.2018.05.006, arXiv:1802.09856.

3. Christoph Koutschan and Yi Zhang. *Desingularization in the q-Weyl Algebra. Advances in Applied Mathematics*, 97, pp. 80–101, 2018. DOI: 10.1016/j.aam.2018.02.005, arXiv:1801.04160.

4. Shaoshi Chen, Manuel Kauers, Ziming Li and Yi Zhang. *Apparent Singularities of D-finite Systems*, 2017. arXiv:1705.00838, accepted by Journal of Symbolic Computation.

5. Yi Zhang. *Contraction of Ore Ideals with Applications.* In *Proceedings of the 2016 International Symposium on Symbolic and Algebraic Computation*, pp. 413-420, ACM Press, 2016. DOI:10.1145/2930889.2930890. [Distinguished Student Author Award]

Professional Experience

09/2018 –	Research Associate, Department of Mathematical Sciences, The University of Texas at Dallas, U.S. (Advisor: Prof. Carlos E. Arreche)
03/2017 – 08/2018	Postdoc researcher, Johann Radon Institute for Computational and Applied Mathematics (RICAM), Austrian Academy of Sciences, Austria. (Advisor: Dr. Christoph Koutschan)

Research Interests

Symbolic Computation, Computer Algebra, Computational Algebraic Geometry, Algorithmic Combinatorics, Algebraic Theory of Differential and Difference Equations

Professional Memberships

- reviewer for Mathematical Reviews

Awards

07/2016	ISSAC'16 Distinguished Student Author Award, SIGSAM, Association for Computing Machinery.
09/2009 – 07/2010	The Second Prize Scholarship of Soochow University, Suzhou, China.
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09/2007 – 07/2008	The First Prize Scholarship of Soochow University, Suzhou, China.
09/2007 – 07/2008	The Zhu Jingwen Scholarship of Soochow University, Suzhou, China.
09/2007 – 07/2008	The Merit Student of Soochow Universtiy, Suzhou, China.