

Curriculum Vitae

Yi Zhang

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Education

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| February 15th, 2017 | Ph.D. in Mathematics with distinction, Institute for Algebra , Johannes Kepler University Linz , Austria. Dissertation Title: <i>Univariate Contraction and Multivariate Desingularization of Ore Ideals</i> . |
| 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: <i>Algorithms for Contraction of Linear Differential and Difference Operators</i> . |
| June 30th, 2011 | B.Sc. in Mathematics, School of Mathematical Sciences , Soochow University , Suzhou, China. |

Appointments

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| 09/2018 – present | 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) |

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. Shaoshi Chen, Manuel Kauers, Ziming Li and Yi Zhang. *Apparent Singularities of D-finite Systems*, 2019. *Journal of Symbolic Computation*. arXiv:[1705.00838](#), DOI:[10.1016/j.jsc.2019.02.009](#).

3. 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](https://doi.org/10.1016/j.aam.2018.05.006), arXiv:[1802.09856](https://arxiv.org/abs/1802.09856).
4. 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](https://doi.org/10.1016/j.aam.2018.02.005), arXiv:[1801.04160](https://arxiv.org/abs/1801.04160).
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](https://doi.org/10.1145/2930889.2930890). [[Distinguished Student Author Award](#)]