

# Curriculum Vitae

**Yi Zhang**

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## Education

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| February 15th, 2017 | Ph.D. in Mathematics with distinction, <a href="#">Institute for Algebra, Johannes Kepler University Linz</a> , Austria. Thesis advisors: Prof. <a href="#">Manuel Kauers</a> and Prof. <a href="#">Ziming Li</a> .                                  |
| July 3rd, 2016      | Ph.D. in Applied Mathematics, <a href="#">Key Laboratory of Mathematics Mechanization, Academy of Mathematics and Systems Science, University of Academy of Sciences</a> , Beijing, China. Thesis advisors: Prof. Manuel Kauers and Prof. Ziming Li. |
| June 30th, 2011     | B.Sc. in Mathematics, <a href="#">School of Mathematical Sciences, Soochow University</a> , Suzhou, China.   |

## Appointments

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| 09/2018 – present | Research Associate, <a href="#">Department of Mathematical Sciences, The University of Texas at Dallas</a> , USA. (Advisor: Prof. <a href="#">Carlos E. Arreche</a> )  |
| 03/2017 – 08/2018 | Postdoctoral researcher, <a href="#">Johann Radon Institute for Computational and Applied Mathematics (RICAM), Austrian Academy of Sciences</a> , Austria. (Advisor: Prof. <a href="#">Christoph Koutschan</a> ) |

## Publications

1. Thieu N. Vo and Yi Zhang. *Rational Solutions of First-Order Algebraic Ordinary Difference Equations*, 2019, arXiv:[1901.11048](#), submitted.
2. Thieu N. Vo and Yi Zhang. *Rational Solutions of High-Order Algebraic Ordinary Differential Equations*, 2019, arXiv:[1709.04174](#), accepted by Journal of Systems Sciences and Complexity.

3. Shaoshi Chen, Manuel Kauers, Ziming Li and Yi Zhang. *Apparent Singularities of D-finite Systems*, 2019. *Journal of Symbolic Computation*, in press. arXiv:[1705.00838](#), DOI:[10.1016/j.jsc.2019.02.009](#).
4. 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](#).
5. 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](#).
6. 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](#)]