

# An-Bao Xu

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## Education:

- Ph.D., Computational Mathematics, Hunan University, China (2017),
- M. Sc., Computational Mathematics, Guilin University of Electronic Technology, China (2013),
- B. Sc., Mathematics, Hubei University of Science and Technology, China (2010).

## Current Position:

- Lecturer, College of Mathematics and Physics, Wenzhou University (2017.7-present),

## Academic Experience:

- Visiting student, Institute of Atmospheric Physics, Chinese Academy of Sciences (2016.11-2017.05),
- Exchange Ph.D. student, Mathematics, Auburn University, USA (2014.08-2016.08),  
-This visit is supported by a grant of the China Scholarship Council.

## Intended Areas of Study:

Numerical Linear Algebra; Numerical Optimization; Compressed Sensing; Matrix/Tensor Completion.

## Publications:

- [An-Bao Xu](#), Dongxiu Xie, Low-rank approximation pursuit for matrix completion, *Mechanical Systems and Signal Processing*, vol. 95, pp. 77-89, 2017.
- Dongxiu Xie, [An-Bao Xu](#), Zhen-yun Peng, Least-squares symmetric solution to the matrix equation  $AXB = C$  with the norm inequality constraint, *International Journal of Computer Mathematics*, vol. 93, no. 9, pp. 1564-1578, 2016.
- [An-Bao Xu](#), Zhen-yun Peng, Norm-constrained least-squares solutions to the matrix equation  $AXB = C$ , *Abstract and Applied Analysis*, vol. 2013 (2013), 10 p., <http://dx.doi.org/10.1155/2013/781276>.
- Frank Uhlig, [An-Bao Xu](#), Iterative optimal solutions for solvable and unsolvable inhomogeneous linear matrix equations of Sylvester and Lyapunov type (Submitted).
- Dongxiu Xie, Hugo J. Woerdeman, [An-Bao Xu](#), Parametrized quasi-soft thresholding operator for compressed sensing and matrix completion. (submitted)
- [An-Bao Xu](#), Tensor completion via a low-rank approximation pursuit, April 2020, (submitted) <http://arxiv.org/abs/2004.00000>

## Contributed Talk:

- The 8th International Conference on Matrix Analysis and Application (ICMAA 2019), University of Nevada, Reno, USA, July 15-18, 2019.  
-Contributed Talk: *Tensor completion via low-rank approximation pursuit.*
- 2018 SIAM Conference on Applied Linear Algebra (SIAM-ALA18), Hong Kong Baptist University, Hong Kong, China, May 4-8, 2018.  
-Contributed Talk: *Parametrized quasi-soft thresholding operator for compressed sensing and matrix completion.*
- 2017 Workshop on Matrices and Operators (MAO), Changsha, Hunan, China, June 9-12, 2017.  
-Contributed Talk: *Varied Parametric Quasi-Soft Thresholding for Compressed Sensing.*
- 2016 SIAM Conference on Imaging Science (SIAMIS16), Albuquerque, New Mexico, USA, May 23-26, 2016.  
-Contributed Talk: *Low-Rank Approximation Pursuit for Matrix and Tensor Completion.*  
-Travel Support from SIAM Student Travel Fund.
- The 40th SIAM Southeastern Atlantic Section Conference (SIAM-SEAS), University of Georgia, Athens, Georgia, USA, March 12-13, 2016.  
-Contributed Talk: *Optimal Solutions for Solvable and Unsolvable Inhomogeneous Linear Matrix Equations of Generalized Sylvester Type.*

## Professional Membership:

- Society for Industrial and Applied Mathematics (SIAM).
- International Linear Algebra Society (ILAS).