

# KEJUN TANG

## PERSONAL DATA

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Address: No.2, Xingke 1st Street, Nanshan, Shenzhen, China  
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## RESEARCH INTERESTS

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tensor methods, density estimation, deep generative models, uncertainty quantification, scientific computing.

## EDUCATION

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09/2015-12/2020: Ph.D., Computational mathematics, School of Information Science and Technology, ShanghaiTech University & Chinese Academy of Sciences  
02/2019-08/2019: Visiting student, Center for Computation and Technology & Department of Mathematics at Louisiana State University  
09/2011-07/2015: B.S., Computational mathematics, School of Mathematics and Information Science, YanTai University

## EXPERIENCE

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October, 2019- January, 2020. NIO, Data Scientist Intern  
January, 2015- March, 2015. Kingaren, Database Engineer Intern

## TEACHING ASSISTANT (TA)

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- Spring 2018, ShanghaiTech: Machine Learning (graduate)
- Spring 2016, ShanghaiTech: Probability and Statistics (undergraduate)
- Fall 2015, ShanghaiTech: Linear Algebra (undergraduate)

## PUBLICATIONS AND PREPRINTS

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- Yani Feng\*, Kejun Tang\*, Lianxing He, Pingqiang Zhou and Qifeng Liao. Tensor train random projection, in preparation.
- Kejun Tang, Xiaoliang Wan, and Qifeng Liao. Adaptive deep density approximation for Fokker-Planck equations, submitted to Journal of Computational Physics.
- Kejun Tang, Qifeng Liao. Rank adaptive tensor recovery based model reduction for partial differential equations with high-dimensional random inputs, Journal of Computational Physics, 409 (2020): 109326.
- Kejun Tang, Xiaoliang Wan, and Qifeng Liao. Deep density estimation via invertible block-triangular mapping, Theoretical & Applied Mechanics Letters, 10 (3), 143-148, 2020.
- Ke Li\*, Kejun Tang\*, Tianfan Wu, and Qifeng Liao. D3M: A deep domain decomposition method for partial differential equations, IEEE Access, 8 (2019).
- Ke Li\*, Kejun Tang\*, Tianfan Wu, Jinglai Li and Qifeng Liao. A hierarchical neural hybrid method for failure probability estimation, IEEE Access, 7 (2019).

## INVITED TALKS

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- “Rank adaptive tensor recovery based model reduction for PDEs with high-dimensional random inputs”, invited talk of uncertainty quantification and data-driven symposium at SIAM CSE 2019, Spokane, Washington, February 2019.
- “Tensor recovery for PDEs with high-dimensional random inputs”, contributed talk at CSIAM, Chengdu, China, September 2018.

## AWARDS

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- Best TA of ShanghaiTech University, 2016.
- National Endeavor Fellowship, 2014
- Second Prize of The Chinese Mathematics Competitions, 2014
- Honorable Mention of Mathematical Contest In Modeling, 2014

- Excellent Student Scholarship, 2013

## SKILLS

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***Programming:*** Python, Matlab, TensorFlow, PyTorch

***Operating Systems:*** Linux, UNIX

***Github:*** <https://github.com/MJfadeaway>

***Website:*** <https://www.tangkejun.com>