

KEJUN TANG

PERSONAL DATA

Position: Postdoctoral research associate, Peng Cheng Laboratory
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RESEARCH INTERESTS

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

EDUCATION

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

EMPLOYMENT HISTORY

February, 2021-present: Postdoctoral research associate, Peng Cheng Laboratory
October, 2019- January, 2020. NIO, Data Scientist Intern
January, 2015- March, 2015. Kingaren, Database Engineer Intern

TEACHING ASSISTANT (TA)

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

PUBLICATIONS AND PREPRINTS

- Xiaoliang Wan, Kejun Tang. Augmented KRnet for density estimation and approximation, <https://arxiv.org/pdf/2105.12866.pdf>
- Yani Feng*, Kejun Tang*, Lianxing He, Pingqiang Zhou and Qifeng Liao. Tensor train random projection, <https://arxiv.org/pdf/2010.10797.pdf>.
- 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).

* Co-first Author

INVITED TALKS

- “Adaptive deep density approximation for Fokker-Planck equations”, Workshop of AI for computing, Shenzhen, China, July 2021.

- “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

- Academic scholarship, 2016-2019.
- 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

Programming: Python, Matlab, TensorFlow, PyTorch

Operating Systems: Linux, UNIX

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