

# KE LI

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## EDUCATION

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### ShanghaiTech University, China

*September 2018 - Present*

Master in Computer Science under supervision of Qifeng Liao  
School of Information Science and Technology

### Chongqing University, China

*September 2014 - May 2018*

Bachelor of Applied Mathematics.

Rank: 3/25

## RESEARCH INTERESTS

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Deep learning

Domain decomposition method

Numerical method for PDEs

Uncertainty quantification

## PUBLICATIONS

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1. **Ke Li\***, Kejun Tang\*, Jinglai Li, Tianfan Wu, Qifeng Liao. "A hierarchical neural hybrid method for failure probability estimation". IEEE Access 7, 112087-112096. (\*equal contribution)
2. **Ke Li\***, Kejun Tang\*, Tianfan Wu, Qifeng Liao. "D3M : A deep domain decomposition method for solving PDEs parallelly". arXiv preprint arXiv:1909.12236. (\*equal contribution)

## HONORS AND AWARDS

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Outstanding graduates award of Chongqing University in 2018.

The third price scholarship in Spring 2017.

The third price scholarship in Autumn 2017.

## INVITED PRESENTATIONS

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1. K. Li\*, Q. Liao. A Hierarchical Neural Hybrid Method for Failure Probability Estimation. SIAM Conference on Uncertainty Quantification (UQ20), Munich, German, March 24 – 27, 2020.
2. K. Li\*, Q. Liao. Domain decomposition in physics-constrained deep learning framework with high-dimensional random inputs. 26th International Domain Decomposition Conference, DD XXVI, Hong Kong, China, December 2 – 6, 2019.
3. K. Li, Q. Liao\*. A domain decomposition approach for high-dimensional uncertainty. 26th International Domain Decomposition Conference, DD XXVI, Hong Kong, China, December 2 – 6, 2019.
4. K. Li\*, Q. Liao. D3M : A deep domain decomposition method for solving PDEs parallelly. Annual meeting of China Society of Industrial and Applied Mathematics(CSIAM), September 19 – 22, 2019.

\* Speaker

## CONTRIBUTED TALKS

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1. K. Li\*, K. Tang, Q. Liao. D3M : A deep domain decomposition method for solving PDEs parallelly. Annual meeting of China Society of Computational Mathematics(CSCM), July 31 – August 4, 2019.

\* Speaker

## PROFESSIONAL SERVICE

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Society for Industrial and Applied Mathematics

Member : China Society of Industrial and Applied Mathematics

The Institute of Electrical and Electronics Engineers

## PROGRAMMING SKILL

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Matlab, Python, Tensorflow, Pytorch,  $\text{\LaTeX}$