

Curriculum Vitae

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Basic Information

- *Gender:* male
- *Date of birth:* 1991. 07. 06
- *Place of birth:* Nantong, Jiangsu

Education

- *Bachelor of Science (2010.9 - 2014.6)*
GPA: 3.32/4 (83.93/100)
Mathematics and applied mathematics, School of Science,
Nanjing University of Science & Technology
- *Phd student (2014.9 - now)*
Mechanical Engineering, National Key Laboratory of Transient Physics,
Nanjing University of Science & Technology
- *Visiting scholar (2018.11 - 2019.05)*
Mechanical Engineering, Grove School of Engineering,
The City College of New York

Research

- *Lattice Boltzmann method;*
- *Finite element method (based on the open source code [deal.ii](#));*
- *Immersed boundary method (the IBM proposed by us avoids the penetration of streamlines through the solid wall)*
- *Fluid-structure interactions of flexible beams immersed in the fluid (write a coupling algorithm based on the new Immersed Boundary Lattice Boltzmann Method proposed by us);*
- *Dynamics mode decomposition*

Papers and conferences:

1. Qin Jianhua, Jiang Xiaohai, Dong Guodan, Guo Zeqing, Chen Zhihua and Yiannis Andreopoulos. *Numerical investigation on vortex dipole interacting with concave wall of different curvature*[J]. Fluid Dynamics Research, 2018, 50(04): 5508.
2. Qin Jianhua, Yiannis Andreopoulos, Jiang Xiaohai, Dong Guodan and Chen. *Combining immersed boundary Lattice Boltzmann method and finite element method to simulate the fluid-structure interactions and the corresponding DMD analysis*. (Writing)
3. Dong Guodan, Zhang Huanhao, Lin Zhenya, Qin Jianhua, Chen Zhihua. *Numerical*

investigation of the interaction between shock waves and triangular cylinders in the prescence of a magnetic field[J]. Acta Physica Sinica, 2018, 67(20).

4. Dong Guodan, Zhang Huanhao, Qin Jianhua, Lin Zhenya, Chen Zhihua. *The Richmyer-Meshkov instability in a square cylinder under a tranverse magnetic field*. 1st International Conference of Defence Technology, 2018.

Skill

- *computers proficiency*: C++, html, makefile, Linux system.
- *Lessons learned*: Lessons concerning fluid dynamics, lessons concerning mathematics, lessons concerning computers
- *Sports*: Dragon dance
Commissary in charge of class sports, one of the main players of class basketball team

AWARDS

- *2010-2014*: The Second Prize Scholarship and the Third Prize Scholarship (Multiple times)
- *2011*: The second place of the Dragon Dance Competition in our university (The dragon dance of our university is the best in China and the varsity has earned a world champion)
- *2013*: National Encouragement Scholarship
Merit student
The Second Prize of School Mathematical Contest in Modeling