南京理工大学
NANJING UNIVERSITY OF SCIENCE & TECHNOLOGY

Curriculum Vitae

Name： Guodan Dong (Lisa)
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Institution： Nanjing University of Science and Technology **(NJUST)**
Address: 200 Xiaolingwei St., Nanjing, Jiangsu, China 210094

Gender: Female
GPA: **4.0/4.0** (Master)
3.32/4.0 (Bachelor)

Education

- *Master candidate* (2017.9 - now)
  GPA: **4.0/4.0**
  Major in: Fluid Mechanics
  National Key Laboratory of Transient Physics
  Nanjing University of Science & Technology
- *Bachelor of safety engineering (2012.9 - 2016.6)*
  GPA: **3.32/4.0**
  Major in: Chemistry.
  Department of Safety Engineering,
  School of Chemical Engineering
  Nanjing University of Science & Technology

Current Research Fields

- **Richtmyer-Meshkov instability**
- **MHD control**
- **Shock waves interactions**
- **Fluid Mechanics**
- **Fluid-structure interactions**
- **Machine learning**

Skills

- *Languages*: English (**IELTS**: 6.5; **GRE**: 320); Chinese;
- *Sports*: one of the players of class volleyball and football team
- *Lessons learned:* Advanced Fluid Mechanics;
  Computation Fluid Dynamic;
  Lessons concerning mathematics and computers;
  FEM (Coursera);
  Linear Algebra (MIT OpenCourseWare);
  Machine Learning and Deep learning (Coursera).
- *Operating system*: **Windows**; **Linux**(Ubuntu);

- *Computer languages*:
  C/C++: Two-year experience of using C/C++ based open source software.
  Python/Jupyter Notebook: Solve some basic partial differential equations; Data analysis, such as dynamic mode decomposition.
  Matlab/Octave: Image processing, PDE, Machine Learning
  Commercial Software: Fluent and ICEM. I have about one-year experience of using them in fluid mechanics
- *Academic Tools*: **Paraview**; **Tecplot**; **Matplotlib; Adobe Illustrator.**

Awards

- *2012-2013*: The third Prize Scholarship and the first class prize for volleyball game.
- *2013-2016*: The Second and Third Prize Scholarship (Multiply Times).
- *2014*: Reward as a Social activity activist.
- *2018*: Outstanding graduate student.
- *2017-2019*: The First Prize Scholarship (multiply times).
- *2019*: The excellent graduate student (Twice).

Experience

- *2012*：Participate in student union and Youth League Committee.
- *2013*：Do part-time job such as salesman, family tutor, a temperate teacher.
- *2014*：Metalworking practice in my school, be an intern student in some companies with my classmates and teachers.
- *2015-2016:* Take part in postgraduate examination
- *2017- now:* Graduate student

Peer Reviewed papers

- *Dong Guodan*, Zhang Huanhao, Lin Zhenya, Qin Jianhua, Chen Zhihua. Numerical investigation of the interaction between shock waves and triangular cylinders in the presence of a magnetic field[J]. *Acta Physica Sinica*. 2018, 67(20). DOI: 10.7498/aps.67.20181127
- *Dong Guodan*, Guo Zeqing, Qin Jianhua, Zhang Huanhao, Jiang Xiaohai, Chen Zhihua Sha sha. Numerical investigations of Richtmyer-Meshkov instability in different magnetic field configurations and the corresponding Dynamic Mode Decomposition[J]. *Acta Physica Sinica.* 2019 68 165201 DOI: 10.7498/aps.68.20190410
- *Guodan Dong*, Jianhua Qin, Zhihua Chen. Numerical investigations of the Richtmyer-Meshkov instability of concave interfaces in hydrodynamics and magnetohydrodynamics[J] (Physical Review Fluids, under review, FJ10049)
- 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. DOI :10.1088/1873-7005/aac59c

- Qin Jianhua, Yiannis Andreopoulos, Jiang Xiaohai, *Dong Guodan* and Chen Zhihua. Combining immersed boundary Lattice Boltzmann method and finite element method to simulate the fluid-structure interactions and the corresponding DMD analysis. (In revision)

Conference paper

- *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.