

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Zengxi Qiao
Gender: Male
Citizen: P. R. China
Major: Fluid Machinery and Engineering, Ph.D
E-MAIL: gzx2009@126.com
Mobile: +86-13590356470



POSTDOC POSITION OF INTEREST

- ✚ Active control of turbulence;
- ✚ Fluid-structure Interaction;
- ✚ Drag reduction in a turbulent boundary layer;

EDUCATION

09/2006 to 07/2010 **Bachelor of Engineering**, Harbin Institute of Technology

- ✚ Second-class scholarship (once);
- ✚ "Triple-A" outstanding student (once);
- ✚ GPA: 85.52/100 (3.42/4.00);
- ✚ Comprehensive Ranking 19/176

09/2010 to 07/2012 **Master of Engineering (Two-year)**, Harbin Institute of Technology

- ✚ Exemption of Entrance Examinations;
- ✚ Second-class scholarship (once);
- ✚ GPA: 80.20/100 (3.21/4.00);
- ✚ Comprehensive Ranking 20/108

03/2013 to 01/2019 **Ph. D Candidate**, Harbin Institute of Technology

- ✚ Closed-loop control of skin friction drag in a turbulent boundary layer for automobile or train
- ✚ Employ several control algorithms such as peak-triggering control, PID control, Fuzzy control;

REASERCH EXPERIENCE

06/2013 to 06/2014 **Research Assistant, The Hong Kong Polytechnic University**

- ✚ Closed-loop control of skin friction drag in a turbulent boundary layer.

PUBLICATIONS

1. **Qiao Z. X.**, Wu Z. and Zhou Y. 2018 Turbulent boundary layer manipulation under a proportional-derivative closed-loop scheme. *Physics of Fluids*, **30**: 115101 (doi: 10.1063/1.5047537)
2. **Qiao Z. X.**, Zhou Y. and Wu Z. 2017 Turbulent boundary layer under the control of different schemes. *Proceedings of the Royal Society A*, **473**(2202): 20170038 (doi: 10.1098/rspa.2017.0038)

3. **Qiao Z. X.** and Zhou Y. 2019 On the measurement of wall-normal velocity derivatives in a turbulent boundary layer. *Flow, turbulence and combustion*. Accepted (doi: 10.1007/s10494-019-00031-1)
4. Zhou Y., **Qiao Z. X.** and Wu Z. 2016 Active skin friction drag reduction using different schemes. *Proceedings of the 3rd Symposium on Fluid-Structure-Sound Interactions and Control* (5-9 July, 2015, Perth, Australia, Eds. Zhou Y., Lucey A., Liu Y., Huang L.), 151-156, Springer Berlin Heidelberg. (doi: 10.1007/978-3-662-48868-3_24)

PROFESSIONAL QUALITIES

1. Excellent experimental skills for using fluid measuring instruments such as Constant Temperature Anemometer (CTA), Particle Image Velocimetry (PIV) and Laser Doppler Vibrometer (LDV)
2. Employ MATLAB and dSPACE to achieve the closed-loop control of turbulence
3. Excellent Professional Knowledge on Aerodynamics, Combustion, Thermodynamics and Fluid mechanics;

HOBBY

History; Traveling; Long running; Badmintons