

# Curriculum Vitae

## Yantao YANG

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### WORKING EXPERIENCE

- 2023.08 to now:** Associated Professor  
Department of Mechanics and Engineering Science,  
College of Engineering, Peking University, China.
- 2017.05 to 2303.07:** Assistant Professor  
Department of Mechanics and Engineering Science,  
College of Engineering, Peking University, China.
- 2013.05 to 2017.04:** Postdoc of FOM Foundation  
Physics of Fluids Group, University of Twente, The Netherlands.  
Sponsored by Professor Detlef Lohse
- 2011.04 to 2013.04:** Peiyuan Scholar  
Center for Applied Physics and Technology, College of Engineering, Peking University, China.  
Sponsored by Professor Shiyi Chen
- 2009.07 to 2011.03:** Research Staff  
State Key Laboratory of Turbulence and Complex Systems,  
College of Engineering, Peking University, China.

### EDUCATION

- 2004.09 to 2009.07** College of Engineering, Peking University, China  
PhD in Fluid Mechanics  
Advisers: Professor Jiezhi Wu and Professor Cunbiao Li
- 2000.09 to 2004.07** Department of Mechanics and Engineering Science, Peking University, China  
B.S. in Theoretical and Applied Mechanics

### RESEARCH AREAS

Turbulent Mixing and Transport; Computational Fluid Dynamics; Oceanic Fluid Dynamics

### TEACHING

- Undergraduate courses:** Fluid Mechanics I, Fluid Mechanics II, Engineering Fluid Mechanics.
- Graduate courses:** Multiphase Flows, Introduction to Computational Fluid Dynamics, Turbulent Flows.

### GRANTS

1. Novel numerical methods and physical models for oceanic fluid dynamics, 2022.05-2025.04, CNY 8,116,000. Marine S&T Fund of Shandong Province for Pilot National Laboratory for Marine Science and Technology (Qingdao). Co-PI.
2. Flow structure and transport of double diffusive convection with horizontal shearing, 2019.01-2021.12, CNY 1,000,000. National Natural Science Foundation of China. Project PI.
3. Development of numerical solver for scalar turbulence and numerical study on oceanic double diffusive convection, 2017.05-2018.12, CNY 1,000,000 Start-up funding of Peking University, Project PI.

4. Constrained LES study for the structure evolution of compressible turbulence, 2018.01-2021.12, CNY 4,000,000. National Natural Science Foundation of China. Core participant.
5. Studies on the aortic syndrome and development of digital diagnosis model based on computational fluid dynamics, 2019.01-2019.12, CNY 500,000. Clinical Medicine Plus X - Young Scholars Project, Peking University. Co-PI.
6. Oceanic double diffusive convection in the diffusive regimes. European PRACE grant consisting of 60 million CPU hours. Project Co-PI. 2019

## **JOURNAL PUBLICATIONS** (Corresponding authors indicated by \*, supervised students indicated by underline)

1. Y.N. Zhang, Y. Chen, Q.D. Cai, and **Y.T. Yang\***. Numerical Simulation on the Scalar Transport in Rotating Channel Turbulence. *Physics of Gases*, **8**(5), 46-53, in Chinese. 2023.
2. J.Y. Li and **Y.T. Yang\***. On the wall-bounded model of fingering double diffusive convection. *Journal of Fluid Mechanics*, **973**, A37. 2023.
3. J.Y. Du and **Y.T. Yang\***. Effects of the gravitational force on the convection turbulence driven by heat-releasing point particles. *Physics of Fluids*, **35**, 075142. 2023.
4. C.L. Hu, K. Xu, and **Y.T. Yang\***. Effects of the geothermal gradient on the convective dissolution in CO<sub>2</sub> sequestration. *Journal of Fluid Mechanics*, **963**, A23. 2023.
5. L.Q. Yuan, S.F. Zou, **Y.T. Yang\***, and S.Y. Chen\*. Boundary-layer disruption and heat-transfer enhancement in convection turbulence by oscillating deformations of boundary. *Physical Review Letters*, **130**, 204001. 2023.
6. W.Y. Chen, S.F. Zou, Q.D. Cai, and **Y.T. Yang\***. An explicit and non-iterative moving-least-squares immersed-boundary method with low boundary velocity error. *Journal of Computational Physics*, **474**, 111803. 2023.
7. Y.H. Du and **Y.T. Yang\***. Wall-bounded thermal turbulent convection driven by heat-releasing point particles. *Journal of Fluid Mechanics*, **953**, A41. 2022.
8. Y.W. Bin\*, X.I.A. Yang, **Y.T. Yang**, R. Ni, and Y.P. Shi. Evolution of two counter-rotating vortices in a stratified turbulent environment. *Journal of Fluid Mechanics*, **951**, A47. 2022.
9. X.W. Qiu, S. Mao, J. Yin, and **Y.T. Yang\***. An anisotropic immerse precipitation process for the preparation of polymer membranes. *Soft Matter*, **18**, 1525. 2022.
10. **Y.T. Yang\***. Two-dimensional direct numerical simulations of fingering double diffusive convection turbulence. *Acta Aerodynamica Sinica*, **40**(2), 183-189. 2022. (In Chinese)
11. Y.H. Du, M.Q. Zhang, and **Y.T. Yang\***. Thermal convection driven by a heat-releasing scalar component. *Acta Mechanica Sinica*, **38**, 321584. 2022.
12. J.Y. Li and **Y.T. Yang\***. Flow structures and vertical transport in tilting salt fingers with a background shear. *Physical Review Fluids*, **7**, 053501. 2022.
13. M. Mohasan, A.B. Aqeel, P.Y. Lv\*, **Y.T. Yang\***, and H.L. Duan. Droplet impact on wetted structured surfaces. *Applied Mathematics and Mechanics (English Edition)*, **43**(3), 437-446. 2022.
14. **Y.T. Yang\***, R. Verzicco, D. Lohse and C.P. Caulfield\*. Layering and vertical transport in sheared double-diffusive convection in the diffusive regime. *Journal of Fluid Mechanics*, **933**, A30. 2022.
15. Y.H. Du, M.Q. Zhang, and **Y.T. Yang\***. Two-component convection flow driven by a heat-releasing concentration field. *Journal of Fluid Mechanics*, **929**, A35. 2021.
16. J.Y. Li and **Y.T. Yang\***. Thermohaline interleaving induced by horizontal temperature and salinity gradients from above. *Journal of Fluid Mechanics*, **927**, A12. 2021.
17. S.F. Zou and **Y.T. Yang\***. Realizing the ultimate scaling in convection turbulence by spatially decoupling the thermal and viscous boundary layers. *Journal of Fluid Mechanics Rapids*, **919**, R3. 2021.

18. M. Mohasan, A.B. Aqeel, P.Y. Lv\*, **Y.T. Yang\***, and H.L. Duan. Cavity dynamics of water drop impact onto immiscible oil pool with different viscosity. *Acta Mechanica Sinica*, **37**(3), 447-455. 2021
19. **Y.T. Yang\***, W.Y. Chen, R. Verzicco, and D. Lohse. Multiple states and transport properties of double-diffusive convection turbulence. *PNAS*, **117**(26), 14676-14681. 2020
20. **Y.T. Yang\***, R. Verzicco, D. Lohse, and R.J.A.M. Stevens. What rotation rate maximizes heat transport in rotating Rayleigh-Bénard convection with Prandtl number larger than one? *Physical Review Fluids*, **5**, 053501. 2020.
21. **Y.T. Yang\***. Double diffusive convection in the finger regime for different Prandtl and Schmidt numbers *Acta Mechanica Sinica*, **36**, 797-804. 2020. (Cover of the issue)
22. A.B. Aqeel, M. Mohasan, P.Y. Lv\*, **Y.T. Yang\***, and H.L. Duan. Effects of the actuation waveform on the drop size reduction in drop-on-demand inkjet printing. *Acta Mechanica Sinica*. **36**(4), 797-804. 2020.
23. Z.Y. Liu **Y.T. Yang**, and Q.D. Cai\*. Neural network as a function approximator and its application in solving differential equations. *Applied Mathematics and Mechanics (English Edition)*, **40**, 237-248. 2019.
24. A.B. Aqeel, M. Mohasan, P.Y. Lv\*, **Y.T. Yang\***, and H.L. Duan. Comprehensive effects of nozzle and fluid properties on the drop formation dynamics in a drop-on-demand inkjet printing. *Applied Mathematics and Mechanics (English Edition)*, **39**, 1-18. 2019.
25. **Y.T. Yang\***, R. Verzicco, and D. Lohse. Two-scalar turbulent Rayleigh-Bénard convection: numerical simulations and unifying theory. *Journal of Fluid Mechanics*, **848**, 648-659. 2018.
26. X. Zhu\*, E. Phillips, V. Spandan, J. Donners, G. Ruetsch, J. Romero, R. Ostilla-Mónico, **Y.T. Yang**, D. Lohse, R. Verzicco, M. Fatica, R.J.A.M. Stevens\*. AFiD-GPU: A versatile Navier-Stokes solver for wall-bounded turbulent flows on GPU clusters. *Computer Physics Communications*, **229**, 199-210. 2018.
27. L. Bao, V. Spandan, **Y.T. Yang**, B. Dyett, R. Verzicco, D. Lohse, and X.H. Zhang\*. Flow-induced dissolution of femtoliter surface droplet arrays. *Lab on a Chip*, **18**, 1066-1074. 2018.
28. K.L. Chong#, **Y.T. Yang**#, S.D. Huang, J.Q. Zhong, R.J.A.M. Stevens, R. Verzicco, D. Lohse, and K.Q. Xia\*. Confined Rayleigh-Bénard, rotating Rayleigh-Bénard, and double diffusive convection: A unifying view on turbulent transport enhancement through coherent structure manipulation. *Physical Review Letters*, **119**, 064501. 2017. (#Co-first authors)
29. **Y.T. Yang\***, R. Verzicco, and D. Lohse. Vertically Bounded Double Diffusive Convection in the Finger Regime: Comparing No-Slip versus Free-Slip Boundary Conditions. *Physical Review Letters*, **117**, 184501. 2016. (Cover of the issue)
30. **Y.T. Yang\***, R. Verzicco, and D. Lohse. Scaling laws and flow structures of double diffusive convection in the finger regime. *Journal of Fluid Mechanics*, **802**, 667-689. 2016.
31. **Y.T. Yang\***, R. Verzicco, and D. Lohse. From convection rolls to finger convection in double-diffusive turbulence. *PNAS*, **113**(1), 69-73. 2016.
32. **Y.T. Yang**, J.C. Wang, Y.P. Shi\*, Z.L. Xiao, X.T. He, and S.Y. Chen. Intermittency caused by compressibility: A Lagrangian study. *Journal of Fluid Mechanics Rapids*, **786**, R6. 2016.
33. **Y.T. Yang\***, E. P. van der Poel, R. Ostilla-Mónico, C. Sun, R. Verzicco, S. Grossmann and D. Lohse. Salinity transfer in bounded double diffusive convection. *Journal of Fluid Mechanics*, **768**, 476-491. 2015.
34. **Y.T. Yang\***, R. Ostilla-Mónico, J. Z. Wu, and P. Orlandi. Inertial waves and mean velocity profiles in a rotating pipe and a circular annulus with axial flow. *Physical Review E*, **91**, 013015. 2015.
35. R. Ostilla-Mónico##, **Y.T. Yang**#, E. P. van der Poel, D. Lohse, and R. Verzicco. A multiple-resolution strategy for Direct Numerical Simulation of scalar turbulence. *Journal of Computational Physics*, **301**, 308-321. 2015. (#Co-first authors)
36. S.Y. Chen\*, Z.H. Xia, J.C. Wang, and **Y.T. Yang**. Recent progress in compressible turbulence. *Acta Mechanica Sinica*, **31**, 275-291. 2015.
37. **Y.T. Yang**, J.C. Wang, Y.P. Shi\*, Z.L. Xiao, X.T. He, and S.Y. Chen. Interactions between inertial particles and shocklets in compressible turbulent flow. *Physics of Fluids*, **26**, 091702. 2014.
38. D. Li, S. Li, Y. Xue, **Y.T. Yang**, W. Su, Z. Xia, Y. Shi, H. Lin\*, and H. Duan\*. The effect of slip distribution on flow past a circular cylinder. *Journal of Fluids and Structures*, **51**, 211-224. 2014.

39. **Y.T. Yang**, J.C. Wang, Y.P. Shi\*, Z.L. Xiao, X.T. He, and S.Y. Chen\*. Acceleration of Passive Tracers in Compressible Turbulent Flow. *Physical Review Letters*, **110**, 064503. 2013.
40. J.C. Wang, **Y.T. Yang**, Y.P. Shi\*, Z.L. Xiao, X.T. He, and S.Y. Chen\*. Cascade of kinetic energy in three-dimensional compressible turbulence. *Physical Review Letters*, **110**, 214505. 2013.
41. J.C. Wang, **Y.T. Yang**, Y.P. Shi\*, Z.L. Xiao, X.T. He, and S.Y. Chen\*. Statistics and structures of pressure and density in compressible isotropic turbulence. *Journal of Turbulence*, **14**:6, 21-37. 2013.
42. **Y.T. Yang\*** and J.Z. Wu. Channel turbulence with spanwise rotation studied using helical wave decomposition. *Journal of Fluid Mechanics*, **692**, 137-152. 2012.
43. S.Y. Chen, Z.H. Xia, S.Y. Pei, J.C. Wang, **Y.T. Yang**, Z.L. Xiao, and Y.P. Shi\*. Reynolds-stress-constrained large eddy simulation of wall-bounded turbulent flows. *Journal of Fluid Mechanics*, **703**, 1-28. 2012.
44. **Y.T. Yang\***, W.D. Su, and J.Z. Wu. Helical-wave decomposition and applications to channel turbulence with streamwise rotation. *Journal of Fluid Mechanics*, **662**, 91-122. 2010.
45. **Y.T. Yang**, H. Wu, Q.S. Li, S. Zhou, and J.Z. Wu\*. Vorticity Dynamics in axial compressor flow diagnosis and design. *Journal of Fluid Engineering*, **130**, 041102. 2008.
46. J.Z. Wu\* and **Y.T. Yang**. From rigid-body separated vortical flows to flexible body controlled potential flow. *Acta Aerodynamica Sinica*, **26**(z1), 21-27. 2008. (In Chinese)
47. **Y.T. Yang**, R.K. Zhang, Y.R. An, and J.Z. Wu\*. Steady vortex force theory and slender-wing flow diagnosis. *Acta Mechanica Sinica*, **23**, 609-619. 2007.
48. J.Z. Wu, A.K. Xiong, and **Y.T. Yang**. Response to “Comment on ‘Axial stretching and vortex definition’”. *Physics of Fluids*, **18**, 029102. 2006.
49. J.Z. Wu\*, **Y.T. Yang**, Y.B. Luo, and C. Pozrikidis. Fluid kinematics on a deformable surface. *Journal of Fluid Mechanics*, **541**, 371-381. 2005.
50. J.Z. Wu\*, A.K. Xiong, and **Y.T. Yang**. Axial stretching and vortex definition. *Physics of Fluids*, **17**, 038108. 2005.

## CONFERENCE PRESENTATIONS

1. Oceanic thermohaline double diffusive convection. *International Symposium on Turbulence - in Memory of Chou Pei-Yuan's 120th Anniversary of Birth*. August 2022, Virtual Meeting.
2. On the wall-bounded model of double diffusive convection in the fingering regime. *Euromech Colloquium 619*. July 2022, Virtual Meeting.
3. Layering and multi-state phenomena in oceanic double diffusive convection. *The 28th Annual Meeting of Beijing Society of Theoretical and Applied Mechanics*. January 2022, Beijing, China. Invited speaker.
4. Recent progress in turbulent mixing and transport. *Annual Meeting for Turbulence and Nonlinear Mechanics*. December 2021, Beijing, China.
5. An explicit and non-iterative moving-least-squares immersed boundary method with low boundary error. *The 21st IACM Computational Fluids Conference*. October 2021, Hangzhou, China.
6. Vortical structures and heat transfer enhancement in rotating Rayleigh-Bénard convection. *The 25th International Congress of Theoretical and Applied Mechanics*. August 2021, Virtual Meeting.
7. Direct numerical simulations of scalar transport in rotating channel turbulence. *The 19th National Meeting on Computational Fluid Dynamics*. June 2021, Nanjing, China. Keynote Speaker.
8. Numerical investigations on the diffusive thermohaline staircases in polar oceans. *Workshop on Turbulence*. May 2021, Shanghai, China.
9. Layering and vertical mixing in double diffusive convection turbulence. *BICTAM-CISM Symposium on Dispersed Multi-phase Flows: from Measuring to Modeling*. March 2021, Beijing, China.

10. Oceanic thermohaline double diffusive convection in the diffusive regime with background shear. *The 11th National Conference on Fluid Mechanics*. December 2020, Shenzhen, China
11. Layering in oceanic double diffusive convection turbulence. *Annual Meeting for Turbulence and Nonlinear Mechanics*. December 2019, Beijing, China.
12. Numerical simulation of multi-component stratification flows. *International Symposium on High-Fidelity Computational Methods & Applications 2019*. December 2019, Shanghai, China.
13. Layering and vertical transport in sheared double diffusive convection in the diffusive regime. *The 17th European Turbulence Conference of Euromech*. September 2019, Torino, Italy.
14. Horizontal convection driven by thermohaline gradients along the top surface. *The Chinese Congress of Theoretical and Applied Mechanics*. August 2019, Hangzhou, China.
15. Numerical simulations of flows with high-Schmidt-number scalar field. *The 19th National Symposium on Numerical Methods of Fluid Mechanics*. July 2019, Zhangye, China.
16. Helical wave decomposition and its applications in wall turbulence. *The 8th International Symposium on Physics of Fluids*. June 2019, Xi'an, China.
17. Double diffusive convection *The 11th National Workshop of Young Scholars in Fluid Mechanics*. May 2019, Hefei, China
18. Flow structures and transport properties of the double diffusive convection with background shearing. *Annual Workshop of the Major Research Plan for Turbulent Structures*. January 2019, Haikou, China.
19. Nusselt number enhancement and flow structures in Rotating Rayleigh-Bénard convection. *71th Annual Meeting of the APS DFD*. November 2018, Atlanta, USA.
20. Flow structures in rotating wall turbulence. *Workshop of Young Scientists in Development and Evolution of Turbulent Structures*. October 2018, Changsha, China.
21. fingering double diffusive convection and oceanic thermohaline staircases. *PoF 20 – Alumni meeting*. October 2018, Enschede, The Netherlands.
22. Flow structures in the oceanic convection turbulence driven by thermal and haline gradients. *Workshop on the evolution and interaction mechanisms of turbulent structures*. July 2018, Tianjin, China.
23. Fingering double diffusive convection. *International Conference on Rayleigh-Bénard Turbulence*. May 2018, Enschede, The Netherlands. Keynote Speaker.
24. Double diffusive convection in the fingering regime. *The Chinese Congress of Theoretical and Applied Mechanics*. August 2017, Beijing, China.

## **INVITED TALKS**

1. Some progress on turbulent convection. School of Mathematics and Physics, University of Science and Technology Beijing. September 2020, Beijing, China.
2. Recent progress on oceanic double diffusive turbulence. Institute of Mechanics. December 2021, Beijing, China.
3. Layering and multi-state phenomena in oceanic double diffusive convection. College of Mathematics and Statistics, Fujian Normal University. November 2021, Fuzhou, China.
4. Thermohaline double diffusive convection in the Ocean. Department of Atmospheric and Oceanic Science, Peking University. December 2020, Beijing, China.
5. Layering and multi-state phenomena in oceanic double diffusive convection. Institute of Applied Physics and Computational Mathematics. November 2020, Beijing, China.
6. Recent progress on oceanic double diffusive turbulence. Department of Mechanics and Engineering Science, Southern University of Science and Technology. October 2020, Shenzhen, China.

7. Oceanic double diffusive turbulence. School of Mathematics and Physics, University of Science and Technology Beijing. September 2020, Beijing, China.
8. Double diffusive convection and thermohaline staircases. Institute of Extreme Mechanics, Northwestern Polytechnical University. January 2020, Xi'an, China.
9. Double diffusive convection and thermohaline staircases. Institute of Fluid Engineering, Zhejiang University. November 2019, Hangzhou, China.
10. Double diffusive convection and thermohaline staircases. Center for Fluid Mechanics, Brown University. September 2019, Providence, USA.
11. Double diffusive convection and thermohaline staircases. Center of Mathematical Sciences and Applications, Harvard University. September 2019, Boston, USA.
12. Numerical studies on oceanic double diffusive convection in the fingering regime. Department of Aeronautics and Astronautics, Fudan University. August 2019, Shanghai, China.
13. Fingering double diffusive convection. Institute of Fluid Engineering, Zhejiang University. September 2018, Hangzhou, China.
14. Double diffusive convection. Department of Modern Mechanics, University of Science and Technology of China. June 2018, Hefei, China.
15. Numerical simulations for flows with scalar components: from turbulence to micro flows. MBIOS Group, Tianjin University. June 2018, Tianjin, China.
16. Double diffusive convection. Department of Mechanics and Engineering Science, Southern University of Science and Technology. June 2018, Shenzhen, China.
17. Double diffusive convection. Institute of Applied Physics and Computational Mathematics. March 2018, Beijing, China.

## SUPERVISED STUDENTS

- **Postdocs:** Shufan Zou(2019.09–2021.09), now a faculty at National University of Defense Technology
- **Graduate students:** Anas Bin Aqeel (PhD, 2017-2020, co-supervised with Prof. Huiling Duan and Dr. Pengyu Lv), Muhammad Mohasan (PhD, 2017-2021, co-supervised with Prof. Huiling Duan and Dr. Pengyu Lv), Yang Chen (M.S., 2017-2020, co-supervised with Prof. Qingdong Cai), Wenjuan Huang (M.S., 2017-2021, co-supervised with Prof. Qingdong Cai), Junyi Li (2018-present), Yuhang Du (2018-present), Wenyuan Chen (2019-present), Chenglong Hu (2020-present), Xiaochao Liu (2020-present), Rongfu Guo (2021-present), Kai Lv (2021-present), Yining Zhang (2022-present).
- **Undergraduate students:** Junyi Li (B.S. 2018), Xuwen Qiu (B.S. 2019-2021), Wenyuan Chen (B.S. 2019), Chenglong Hu (B.S. 2020), Qin Zhang (B.S. 2020), Rongfu Guo (B.S. 2020-2021), Lin Lin (B.S. 2021), Zhongyi Zhang (B.S. 2021), Zizhuo Song (B.S. 2021), Song Huang (B.S. 2021, co-supervised with Prof. Jianguo Wu), Yining Zhang (B.S. 2022), Yongming Chu (B.E. 2022), Weitao Li (B.E. 2022), Xu Chen (B.E. 2022).

## SERVICES

- Member, the Young Scholar Editorial Board of *Physics of Gases*.
- Member, Committee for Foreign Communication and Cooperation, Chinese Society of Theoretical and Applied Mechanics
- Member of organizing committee, National Graduate Student Forum on Mechanics, Peking University, 2019 and 2020
- Member of organizing committee, Seminar on Fluid Mechanics and Seminar on Young Scholars in Mechanics as part of the serial events in Memory of Chou Pei-Yuan's 120th Anniversary of Birth. 2022.
- Member of organizing committee, the International Symposium on Turbulence in Memory of Chou Pei-Yuan's 120th Anniversary of Birth. 2022.

- Member of organizing committee, The 9th International Conference on Rayleigh-Bénard Turbulence. (Postponed by Covid-19).
- Reviewer for *Journal of Fluid Mechanics*, *Physical Review Letters*, *Physical Review Fluids*, *Physical Review E*, *Geophysical Review Letters*, *Journal of Physical Oceanography*, *International Journal of Heat and Mass Transfer*, *Journal of Turbulence*, *European Journal of Mechanics - B/Fluids*, *International Journal of Multiphase Flow*, *Physics of Fluids*, *Journal of Hydrodynamics*, *Acta Mechanica Sinica*, *Acta Aerodynamica Sinica*, *Chinese Journal of Aeronautics*, *Applied Mathematics and Mechanics (English Edition)*, *Advances in Applied Mathematics and Mechanics*, *Chinese Journal of Physics*, *Theoretical and Applied Mechanics Letters*, *Chinese Physics B*, *Advances in Mechanics*, *National Science Review*, *The Aeronautical Journal*

## AWARDS

- Excellent Award in Teaching, Peking University, 2022.
- First Prize of Teaching Achievement, Peking University, 2021. Team Member.
- Peking University - BOE Teaching Award, 2021.
- Second Prize in Teaching Ability Competition of Young Faculty, Peking University, 2020.
- Winner of the Visualization Challenge at Super D Event of SURFsara, The Netherlands. 2016.