Xinxin Wang, Ph.D. Candidate

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https://wazedxwxx.github.io/



Education

2021 - · · · ·	Ph.D. in Aeronautical and Astronautical Science and Technology National University of Defense Technology, China
2018 – 2020	M.S. in Aeronautical and Astronautical Science and Technology
	National University of Defense Technology, China
	Thesis title: Applications of Immersed Boundary Method on Detonation Simulation.
2014 – 2018	B.S. in Flight Vehicle Propulsion Engineering
	Northwestern Polytechnical University , China
	Thesis title: Design of Experimental Device for High Pressure Combustion Characteristics of Solid Propellant.

Research Publications

Journal Articles

- **Xinxin**, **W.**, Ralf, D., Jianhan, L., Xiaodong, C., & Wandong, Z. (n.d.). A second order ghost-cell immersed boundary method with hybrid reconstruction for compressible simulations. *Computer and Fluids*, (*Accept*).
- Wandong, Z., Jianhan, L., Ralf, D., Xiaodong, C., & Xinxin, W. (2021). Effect of transverse jet position on flame propagation regime. *Physics of Fluids*, *33*(9), 091704. *O* doi:https://doi.org/10.1063/5.0063363

Conference Proceedings

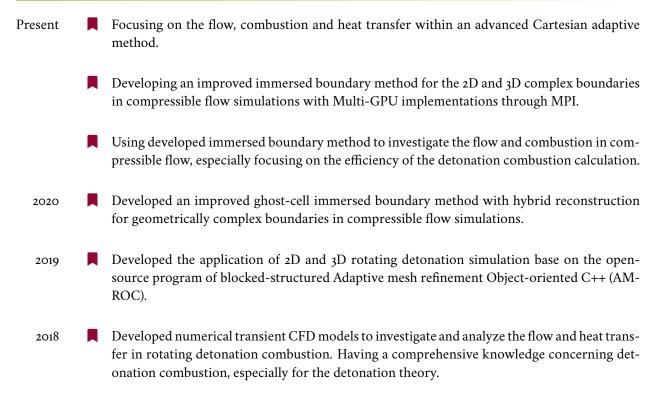
- Wandong, Z., Jianhan, L., Xiaodong, C., Ralf, D., & **Xinxin**, **W.** (2022). Effect of mach number on the flame acceleration and deflagration-to-detonation transition. In *28th international colloquium on the dynamics of explosions and reactive systems*, Napoli, Italy.
- 2 Can, N., Hongbo, W., Mingbo, S., Yixin, Y., Yanan, W., Li, P., & **Xinxin**, **W.** (2021). Numerical study of shock train characteristics in reverse pressure supersonic pipeline flow. In *5th symposium on coupling flow of internal and external flows of ramjet engines*, Weihai, China.
- Wandong, Z., Jianhan, L., Xiaodong, C., & **Xinxin**, **W.** (2021). The influence of the transverse jet in the ddt process on the flame propagation mode. In *The 19th national conference of the computational fluid dynamics*, Nanjing, China.
- Wandong, Z., Jianhan, L., **Xinxin**, W., & Xiaodong, C. (2021). Flame-turbulence interaction in the process of ddt in a fluid-solid combination obstacle. In *7th symposium on heat and mass transfer*, Zhangzhou, China.
- **Xinxin**, W., Jianhan, L., Xiaodong, C., & Wandong, Z. (2021). An improved ghost-cell immersed boundary method for detonation simulations. In *21st iacm computational fluids conference (cfc 2021)*, HangZhou, China.

Xinxin, **W.**, Jianhan, L., Xiaodong, C., Wandong, Z., & Liang, L. (2020). Adaptive simulation on multiple wave mode of rotating detonation combustion. In *Research on future warfare and missile weapon system conference*, Taiyuan, China.



Liang, L., Wang, H., Xiong, D., Sun, M., Tang, T., Zhao, G., & **Xinxin**, **W.** (2019). An adaptive high-resolution and low-dissipation hybrid energy consistent/wenocu scheme. In *4th international conference on computational modeling, simulation and applied mathematics*, Guangzhou, China.

Research Experience

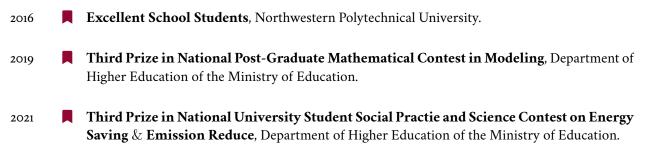


Skills

Strong reading, writing and speaking competencies for English, Chinese.
C++, Python, Fortran, Matlab, Shell, Large K
HTML, CSS.
Academic research, teaching, training, consultation, LTEX typesetting and publishing.
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Miscellaneous Experience

Awards and Achievements



Miscellaneous Experience (continued)

Certification

2018 College English Test Band 6,. Department of Higher Education of the Ministry of Education .

2015 **National Computer Rank Examination Certificate Grade 2**. Awarded by National Education Examinations Authority.