

Xinxin Wang , Ph.D. Candidate

✉ wxx@nudt.edu.cn

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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*, (Revision).
- 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.  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.
- 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.
- 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.

Skills



- Languages  Strong reading, writing and speaking competencies for English, Chinese.
- Coding  C++, Python, Fortran, Matlab, Shell, \LaTeX , ...
- Web Dev  HTML, CSS.
- Misc.  Academic research, teaching, training, consultation, \LaTeX typesetting and publishing.

Miscellaneous Experience

Awards and Achievements

- 2016  **Excellent School Students**, Northwestern Polytechnical University.
- 2019  **Third Prize in National Post-Graduate Mathematical Contest in Modeling**, Department of Higher Education of the Ministry of Education.
- 2021  **Third Prize in National University Student Social Practice and Science Contest on Energy Saving & Emission Reduce**, Department of Higher Education of the Ministry of Education.

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.