

Christopher Williams

Ph.D. Student in Mechanical Engineering, admitted Autumn 2020

Publications

PUBLICATIONS

- **Reaction-induced departures from continuum Navier-Stokes turbulence.** *Proceedings of the National Academy of Sciences of the United States of America*
Williams, C. T., McMullen, R. M., Gallis, M. A.
2025; 122 (40): e2508608122
- **Turbulence-chemistry interaction in a non-equilibrium hypersonic boundary layer** *JOURNAL OF FLUID MECHANICS*
Williams, C., Di Renzo, M., Moin, P.
2025; 1017
- **Review of shock-turbulence interaction with a focus on hypersonic flow** *PHYSICS OF FLUIDS*
Cuadra, A., Di Renzo, M., Hoste, J. E., Williams, C. T., Vera, M., Huete, C.
2025; 37 (4)
- **Navier-Stokes characteristic boundary conditions for high-enthalpy compressible flows in thermochemical non-equilibrium** *JOURNAL OF COMPUTATIONAL PHYSICS*
Williams, C., Di Renzo, M., Urzay, J., Moin, P.
2024; 509
- **Angular momentum and moment of total enthalpy integral equations for high-speed boundary layers** *PHYSICAL REVIEW FLUIDS*
Kianfar, A., Di Renzo, M., Williams, C., Elnahas, A., Johnson, P. L.
2023; 8 (5)