Yuenong Ling

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Education

Massachusetts Institute of Technology — Cambridge, USA
Ph.D. in Aeronautics and Astronautics — 09/2023 – 06/2026 (expected)

Advisor: Adrián Lozano-Durán

Massachusetts Institute of Technology — Cambridge, USA
S.M. in Aeronautics and Astronautics — 08/2021 – 09/2023

Thesis: Wall-modeled Large-eddy Simulation Based on Building-block Flows
Advisor: Adrián Lozano-Durán

University of Michigan -- Ann Arbor — Ann Arbor, USA
B.S.E in Engineering Physics — 08/2019 – 05/2021

UM-SJTU Joint Institute — Shanghai, China
B.S.E in Mechanical Engineering — 08/2017 – 08/2021

Conference Proceedings

Y Ling, A Lozano-Durán, "Causality between streaks and bursts in wall-bounded turbulence," In preparation, 2024

Arranz, G., Ling, Y., & Lozano-Durán, A, "Wall-modeled LES based on building-block flows: Application to the Gaussian Bump," AIAA Aviation 2023 Forum, p. 3984, 2023

Lozano-Durán, A., Arranz, G. & Ling, Y, "Wall-modeled LES based on building-block flows: Application to the Gaussian Bump," AIAA Aviation 2023 Forum, p. 3425, 2023

Ling, Y., Arranz., G., Williams., E., Goc, K., Griffin, K., and Lozano-Durán, A., "WMLES based on building block flows," Proceedings of the Summer Program, Center for Turbulence Research, Stanford University, pp. 5–14, 2022

Conference Presentations

Information-theoretic quantification of causality in turbulent flows — 11/2022
APS DFD, Indiannapolis

Comparison between interventional and observational causal inference in turbulence — 05/2022
Causality in turbulence and transition workshop, Universidad Politécnica de Madrid

Maximum size of an explosively growing bubble — 11/2020
APS DFD, Chicago (Online)

Experience

Visiting Scholar at Universidad Politécnica de Madrid Madrid, Spain
Madrid Turbulence Workshop 05/2023 – 06/2023

Visiting Scholar at Center for Turbuelence Research Stanford, USA
CTR Summer Program 07/2022 – 08/2022

Outreach

AeroAstro Graduate Application Assistance Program
MIT AeroAstro 11/2022 – 12/2022

Mentor students from a variety of underrepresented backgrounds in creating their application materials for the department.

Miscellaneous

- Languages: English - fluent, Chinese - native.