



Yusuke Yamashita

Postdoctoral Scholar, Aeronautics and Astronautics

 Curriculum Vitae available Online

Bio

BIO

Yusuke Yamashita is a Postdoctoral Researcher of Aeronautics and Astronautics at Stanford University. He received a Ph.D. and M.S. in Aerospace Engineering and a Graduate Certificate in Engineering from the University of Tokyo, and B.S. in Aeronautics and Astronautics from Osaka Prefecture University. He obtained fellowship as a Japan Society for the Promotion of Science. His interests include electric propulsion, low-temperature plasmas, microwave and plasma interaction, and computational plasma physics. He received Second place award in student competition at International Electric Propulsion Conference, and Japanese Rocket Society Award at 33rd International Symposium on Space Technology and Science.

HONORS AND AWARDS

- Japanese Rocket Society Award, 33rd International Symposium on Space Technology and Science (2022)
- Second place award in student competition, International Electric Propulsion Conference (2021)
- Overseas Dispatch Assistance for international conference, TEPCO Memorial Foundation (2019)
- Overseas Dispatch Assistance for international conference, Murata Science Foundation (2018)

STANFORD ADVISORS

- Ken Hara, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Ten-moment fluid model for low-temperature magnetized plasmas** *PHYSICS OF PLASMAS*
Kuldinow, D., Yamashita, Y., Hara, K.
2024; 31 (12)
- **Ten-moment fluid model with heat flux closure for gasdynamic flows** *JOURNAL OF COMPUTATIONAL PHYSICS*
Kuldinow, D. A., Yamashita, Y., Mansour, A. R., Hara, K.
2024; 508
- **Hysteresis between gas breakdown and plasma discharge** *PHYSICS OF PLASMAS*
Yamashita, Y., Hara, K., Sriraman, S.
2024; 31 (7)
- **Inertial and anisotropic pressure effects on cross-field electron transport in low-temperature magnetized plasmas** *JOURNAL OF PHYSICS D-APPLIED PHYSICS*
Yamashita, Y., Lau, R., Hara, K.
2023; 56 (38)