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EDUCATION

Ochanomizu University , Japan <i>Master Physics</i> Thesis Advisor: Prof. Ko Okumura Title: <i>High-Velocity Drag Friction acting on an obstacle in a quasi two- dimensional granular bed</i>	March 2024
Ochanomizu University , Japan <i>Bachelor Mathematics</i>	March 2022

AWARDS AND SCHOLARSHIP

Student Presentation Award <i>80th Annual Meeting, The Physical Society of Japan, Hiroshima University, Japan</i>	2025
Selected as a project fellow for the Leadership Development Program for Ph.D The University of Tokyo	2024
Selected as a project fellow for the JST SPRING Program (SPRING GX) The University of Tokyo	2024

PUBLICATIONS

Published Articles

* Equal contribution

2. Auriane Huyghues Despointes, [Yui Takai](#), Shoko Ii, Timothée Mouterde, and David Quéré, "[Ultra-quick dynamics and acrobatics of viscous marbles](#)", *Nature communications* (2026). (accepted)
1. Pritam Kumar Roy, [Yui Takai](#), Rui Matsubara, Mizuki Tenjimbayashi, and Timothée Mouterde, "[Hot liquid marbles](#)", *Proceedings of the National Academy of Sciences* **122**, e2500619122 (2025).

Manuscripts in Preparation

1. [Yui Takai](#), Kei Mukoyama*, Pritam Kumar Roy, Guillaume Lagubeau, David Quéré, Samuel Poincloux, and Timothée Mouterde, "[Static friction of liquid marbles](#)", arXiv:2506.20116, Under review in *Physical Review Letters*.

REFERENCES

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Additional references available upon request