

## Learning mechanical systems from real world data

*Tuesday, 27 January 2026 09:15 (1 hour)*

In this talk I will consider a method for learning the Lagrangian and forces for mechanical systems using the discrete Lagrange d'Alembert principle. The case of manifold valued data and data on Lie groups will also be discussed if time permits.

I will also describe a number of current projects with diverse applications where the main theme is learning vector fields from data.

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**Session Classification:** Session 3