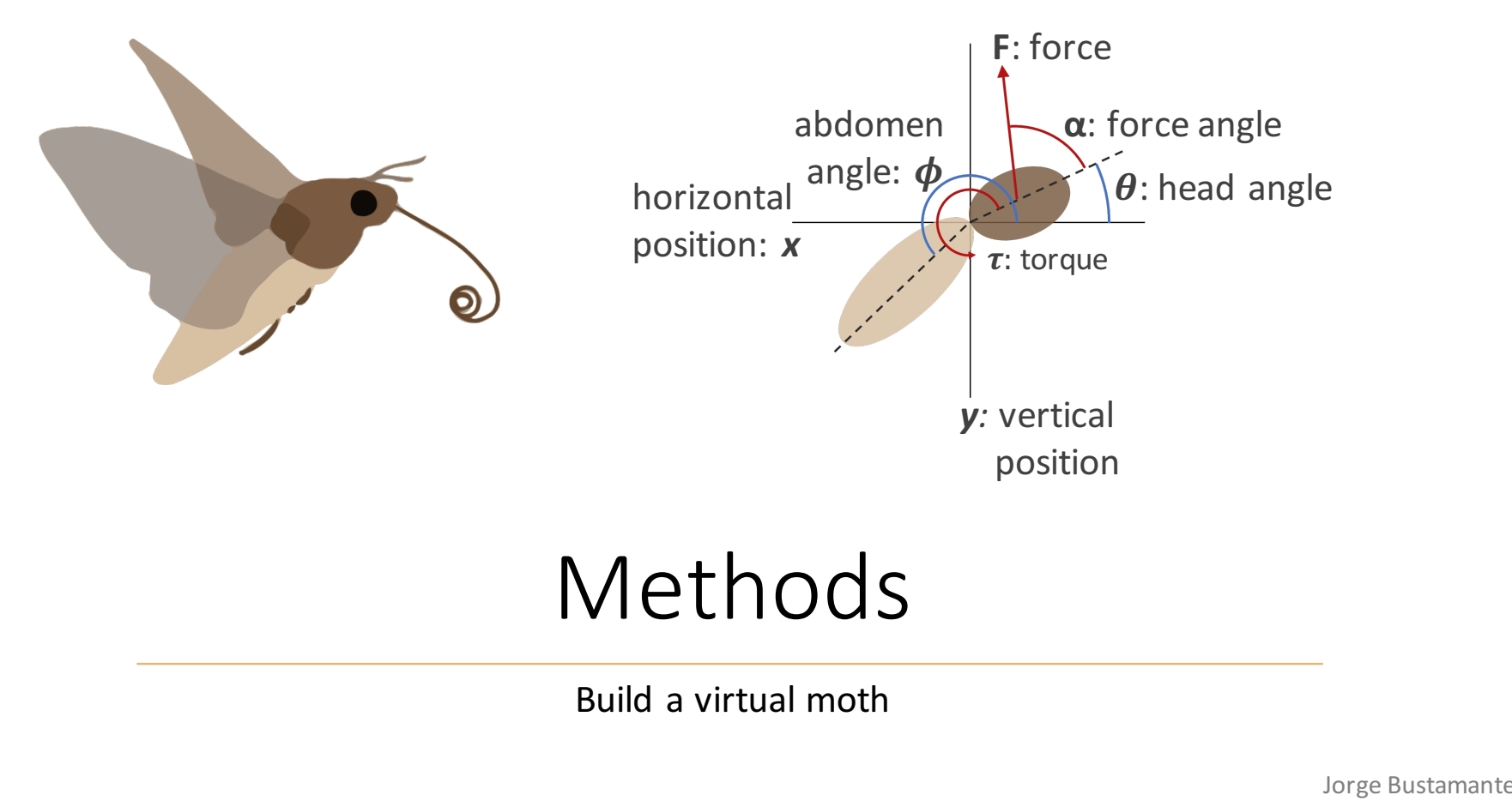
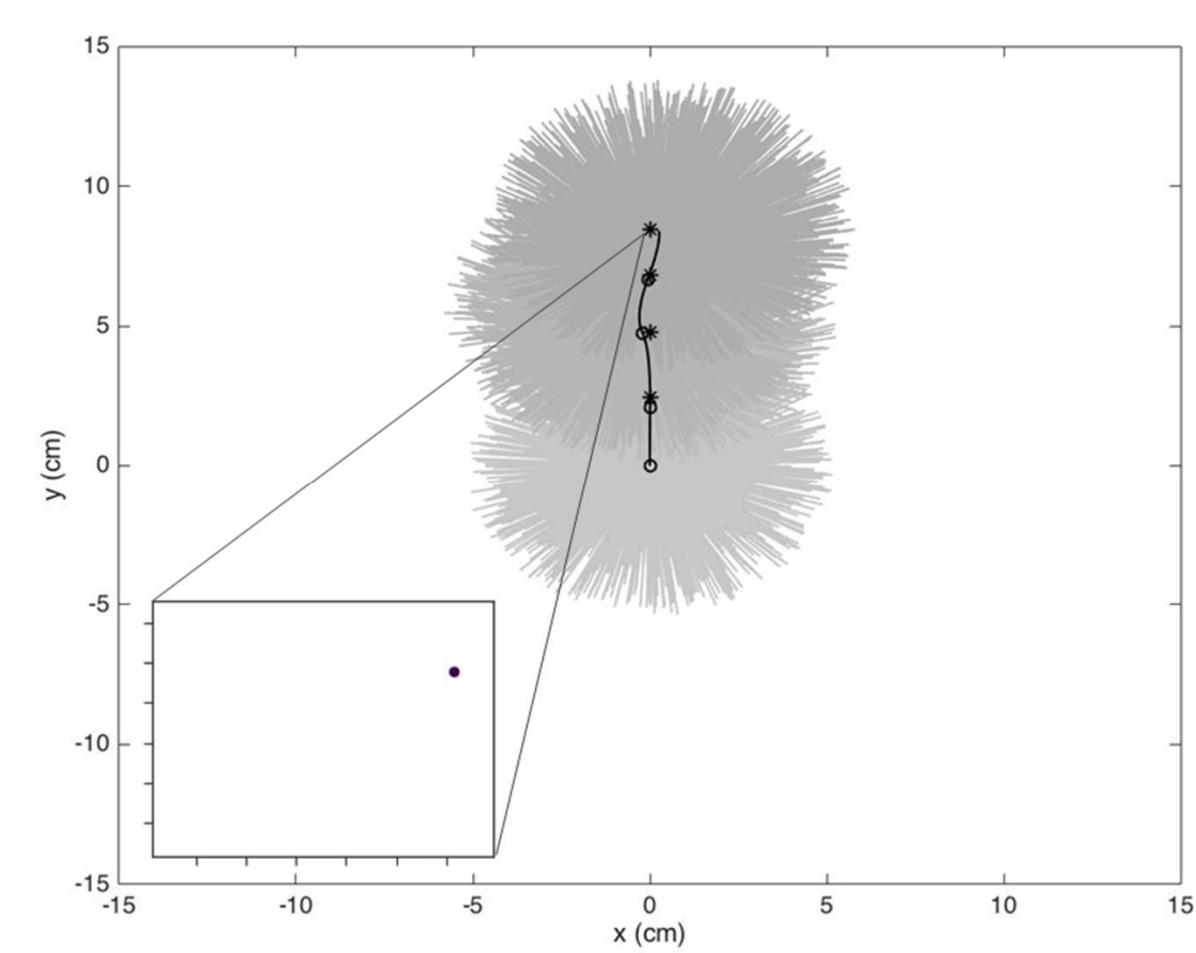


Motivation

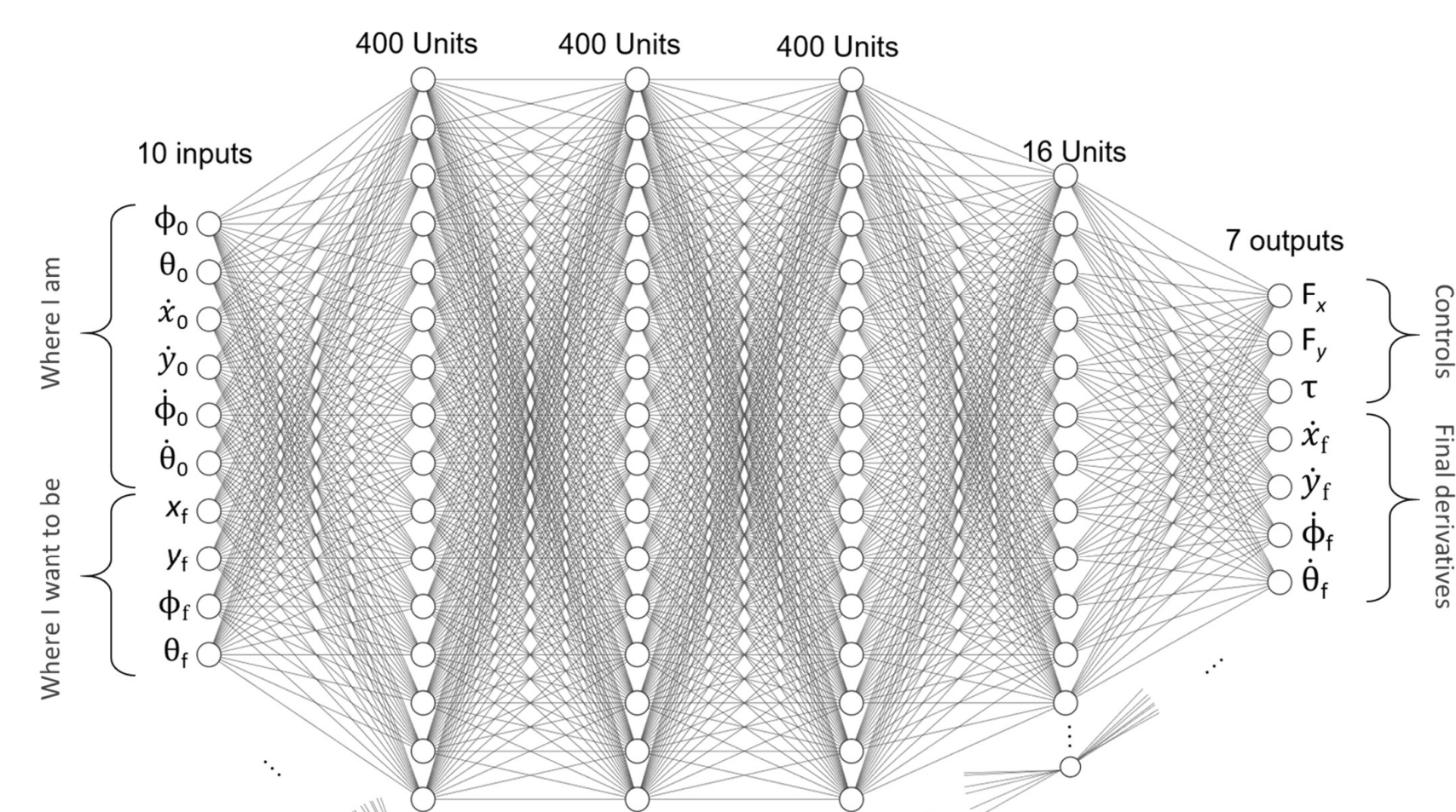
Learning a non-linear controller for insect flight dynamics with a deep neural network



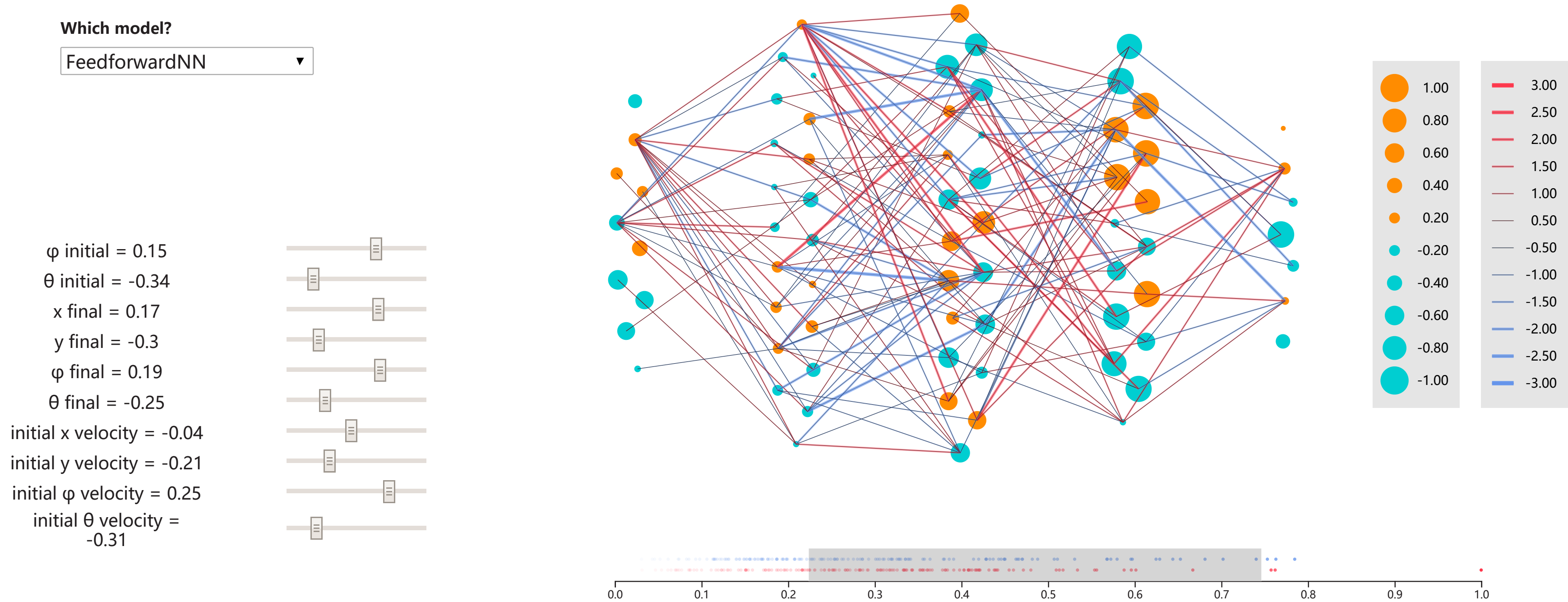
**Question:** What is the temporal pattern of forces required to follow a complex trajectory? If I know where I am, and where I want to go, how do I get there?



**Answer:** Deep learning + Model Predictive Control



Visualizing neural network architecture



Interaction techniques

- The nodes can be dragged to re-position.
- Dropdown menu that allows to choose different neural network.
- Sliders that allow to choose values for each input variable.
- The brush allows to choose the range of the weight (in absolute value) to be shown.
- When hover on the nodes or links, the details will show up.