

Synthetic Biology Design and Control

Taking into Account Shared Cellular Resources

Dr Guy-
Bart Stan
Imperial College London

Dr Stan's main research interests are in the areas of **Nonlinear Systems** Analysis and Control, Systems and Synthetic Biology, and **Analysis and Design of Complex Networks**.

The group is currently focusing on foundational methods for **genetic circuit design**, including the **quantification of metabolic burden**, as well as the **automatic control of synthetic gene circuits**. The talk will answer the questions:

- How can we improve the dynamic performance of synbio systems?
- How can we use cells to control their surrounding environment?

Thursday 3rd March
18:00 – 19:00

LR6, Department of Engineering, Lensfield Road