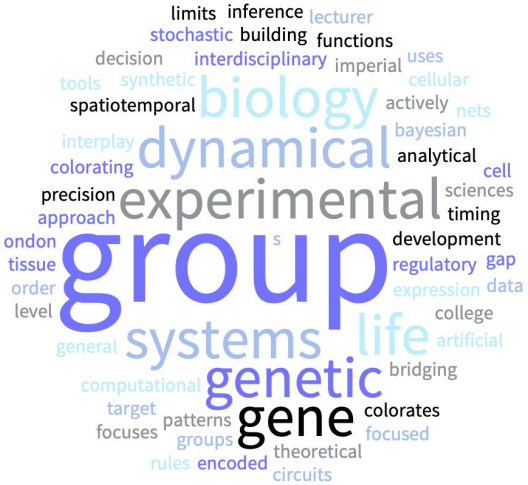
VIRTUAL HUMAN DEVELOPMENT

Ruben Perez-Carrasco

Ruben is a lecturer of theoretical systems biology in the department of Life Sciences at Imperial College London. The Perez-Carrasco group focuses on understanding the interplay between timing and precision in cell decision during development at genetic, cellular and tissue level. In order to do so, the group uses analytical and computational tools from stochastic dynamical systems and Bayesian inference. The group collaborates actively with other experimental groups bridging the gap between experimental data and the understanding of the general rules of life. As part of this interdisciplinary approach, the group is also focused in exploring novel dynamical functions encoded in gene regulatory networks by collaborating with synthetic biology labs, building and exploring the limits of artificial genetic circuits with target spatiotemporal patterns of gene expression.