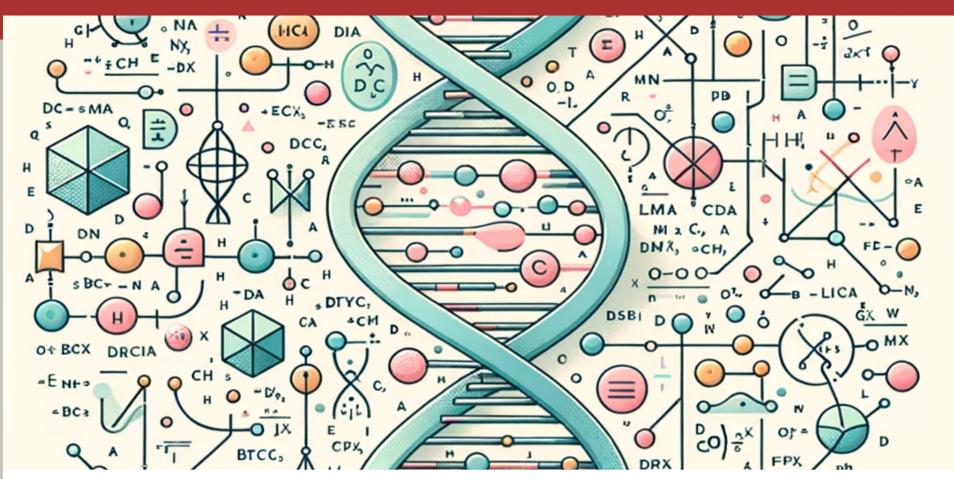
ETH zürich



SG Seminar

Scaling Up Gene Regulatory Models to Fight Underspecification

warrant complex models. Yet, the data that is relevant can provide us with otherwise unavailable available to us often lacks important information time information that helps resolve network model that would enable us to infer more realistic mod- selection problems. Designing interpretable neuels that align with domain expertise. At the same ral network models that are inspired by system time, a large number of potentially relevant fea- biology furthermore allows us to learn relatively tures invites pre-processing steps like dimension- small models of gene regulatory dynamics that ality reduction to obtain statistical significance. still scale to the full human genome and provide We will discuss several cases in which we still have us with biological insights that we would have otha lot to gain by scaling up our models. Paradoxi- erwise missed.

Complex systems like gene regulatory processes cally, adding independent features that seem ir-

Dr. Rebekka Burkholz

CISPA Helmholtz Center for Information Security

When: Wednesday 1st November 2023 9:15 am - 10:15 am

Where: ETH Zürich Rämistrasse 101

HGE41

More information available at https://www.sg.ethz.ch/