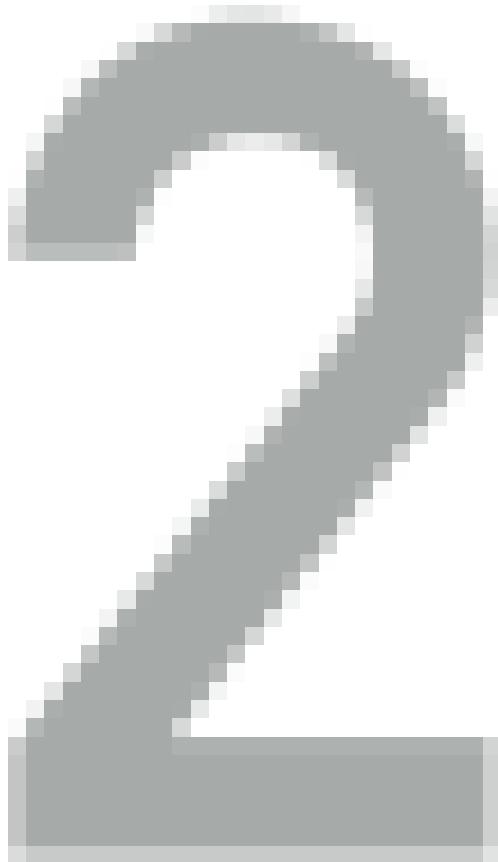


CONFIDENTIAL COURSE



Thais can make you a nice chan

→ This is not a race car driver to make you a race car driver.

 This is a course! 

→ This is not a programmatic performance testing

hardware, packages, languages, and changes, etc.

→ challenges that are not faced in their practice

we will use technology to motivate them

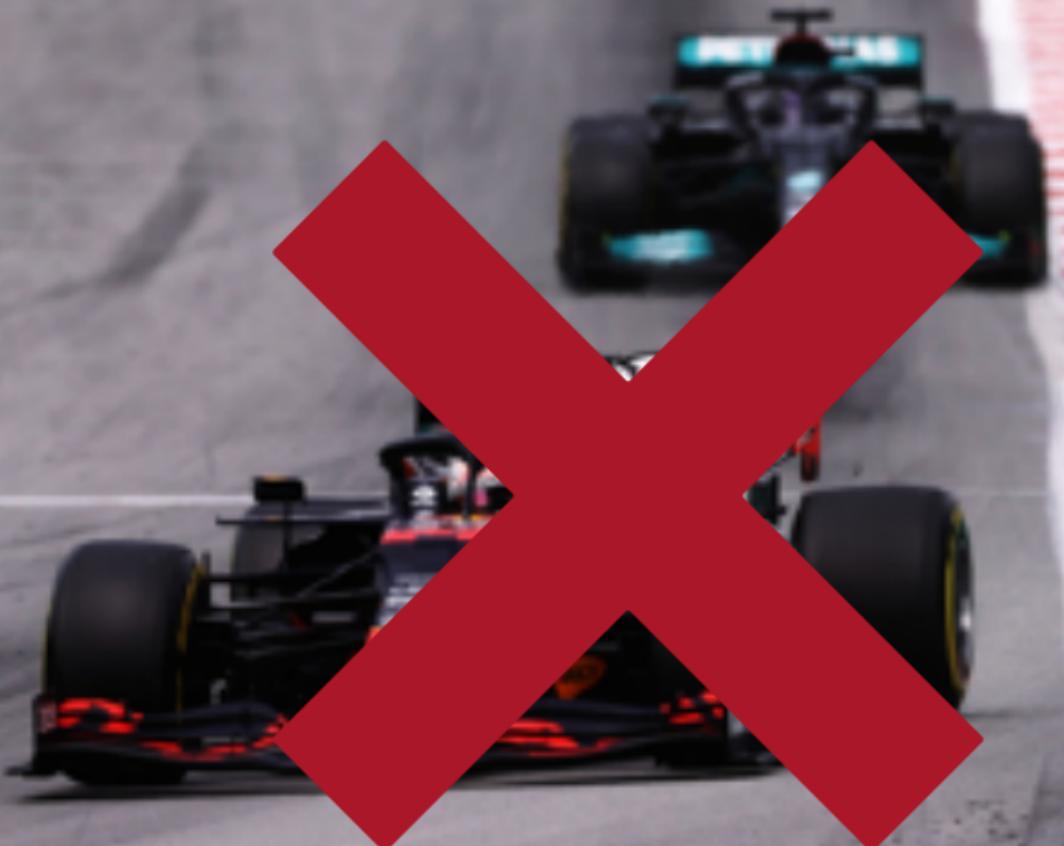


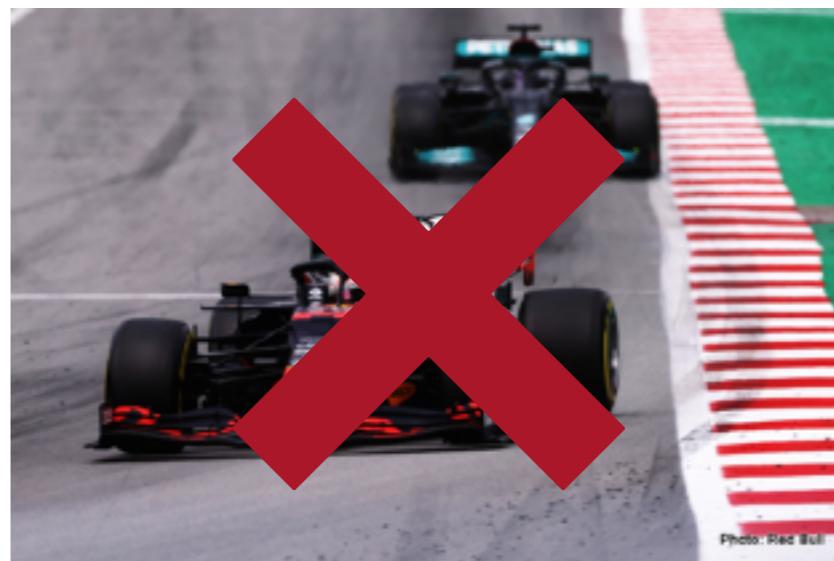
Photo: Red Bull



NOT THE GOAL OF THIS COURSE

26

- ▶ This course is not to make you a **mechanic**
 - ▶ This is not a theory course!
 - ▶ We will use theory to motivate methodology
- ▶ This course is not to make you a **race car driver**:
 - ▶ This is not a course on probabilistic programming or high performance computing
 - ▶ Hardware, packages, languages, models, etc change
 - ▶ Implementations in practice have their own challenges that are not our focus



COURSE OUTLINE

▶ **Part 1: Foundations**

- ▶ MCMC theory
- ▶ Local inference algorithms
- ▶ Annealing

▶ **Part 2: Annealing algorithms**

- ▶ Parallel annealing
- ▶ Sequential annealing

▶ **Part 3: Free energy methods**

- ▶ Acceleration methods
- ▶ Enhanced sampling
- ▶ Optional topics