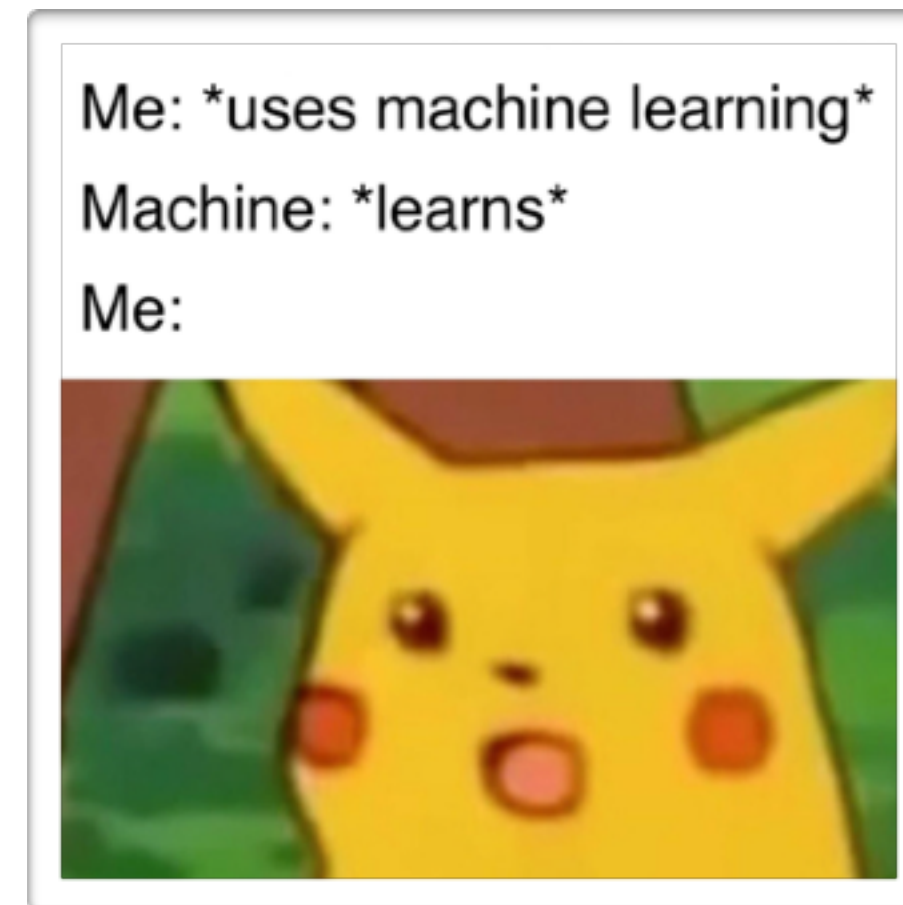


# Burden of keeping it real

- More computational resources vs. more complex simulations
- 100,000s of simulations may be infeasible in real applications
- Large portion of new LFI research is to infer parameters with less simulations
  - Enable more complex simulators
  - Make LFI faster
- ...enter Machine Learning



# Modern techniques

- Gaussian processes
- Emulator networks
- Autoregressive flows