Online Optimization with  $\boldsymbol{b}_k$  = ramp and time-varying Hessian **OGD** Control-based [1] 10<sup>2</sup> SIMBO-B  $10^{1}$ Tracking error 10<sup>0</sup>  $10^{-1}$  $10^{-2}$ 500 200 300 100 400 Time