Histogram of Parameters Estimated via Least-Squares over 499 Simulations $m = 2500 \text{ kg}, I = 5445 \text{ } kg \cdot m^2, a = 1.441 \text{ m}, b = 1.536 \text{ m}$ 50 -8692 40 30 20 10 -3.5 -3 -2.5 -1.5 -0.5 $\times 10^4$ Front Tire Cornering Stiffness $(C_{\alpha f})$ $\left[\frac{N}{rad}\right]$ 50 $\frac{N}{rad}$ 40 30 20 10 -2 -3.5 -3 -2.5-1.5 -1 -0.5 -4.5 -4 $\times 10^4$ Rear Tire Cornering Stiffness $(C_{\alpha r})$ $\left[\frac{N}{rad}\right]$