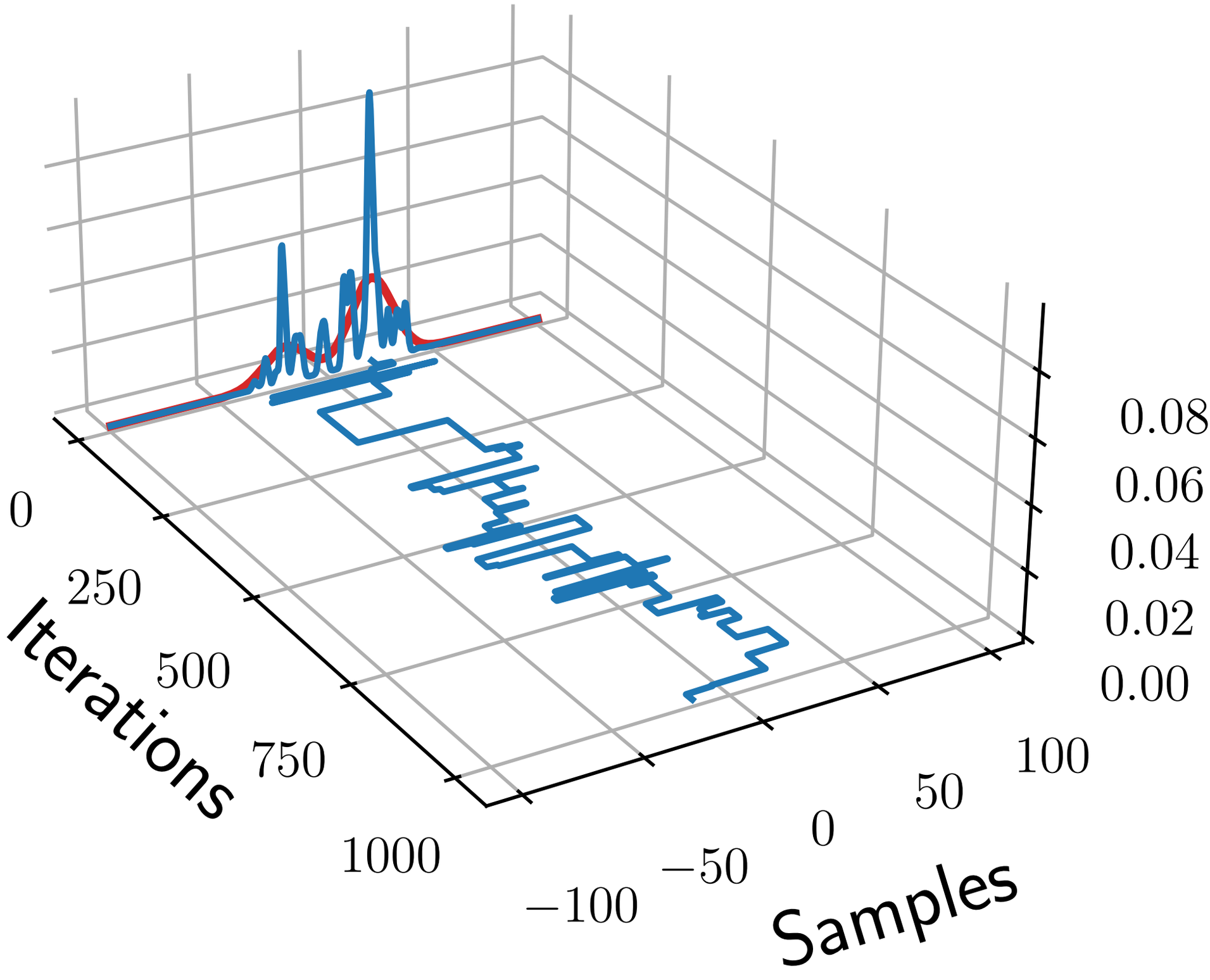# MH with $\mathcal{N}(0, 500^2)$ proposal