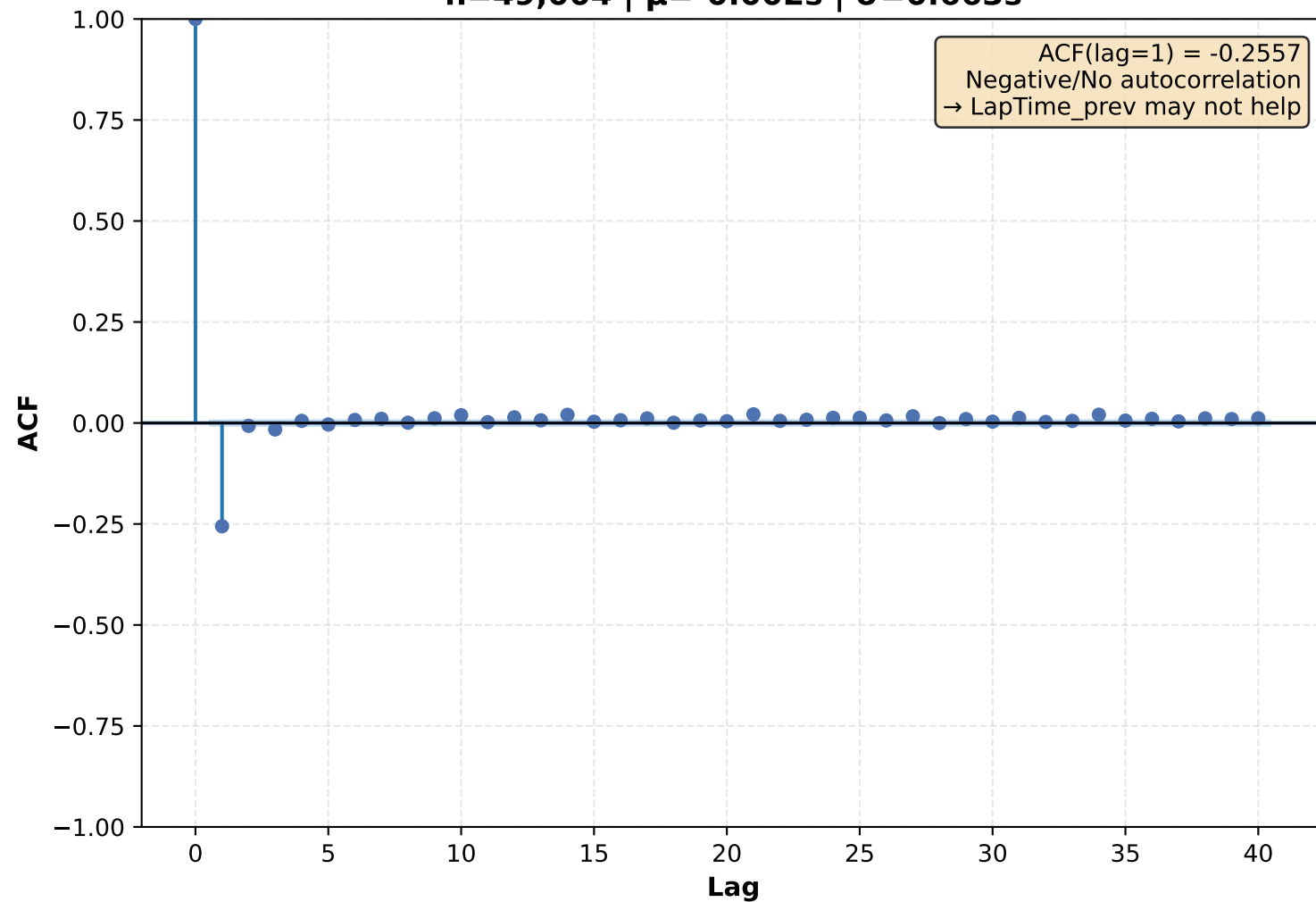


# Autocorrelation Analysis: $\Delta$ LapTime and Baseline Model Residuals

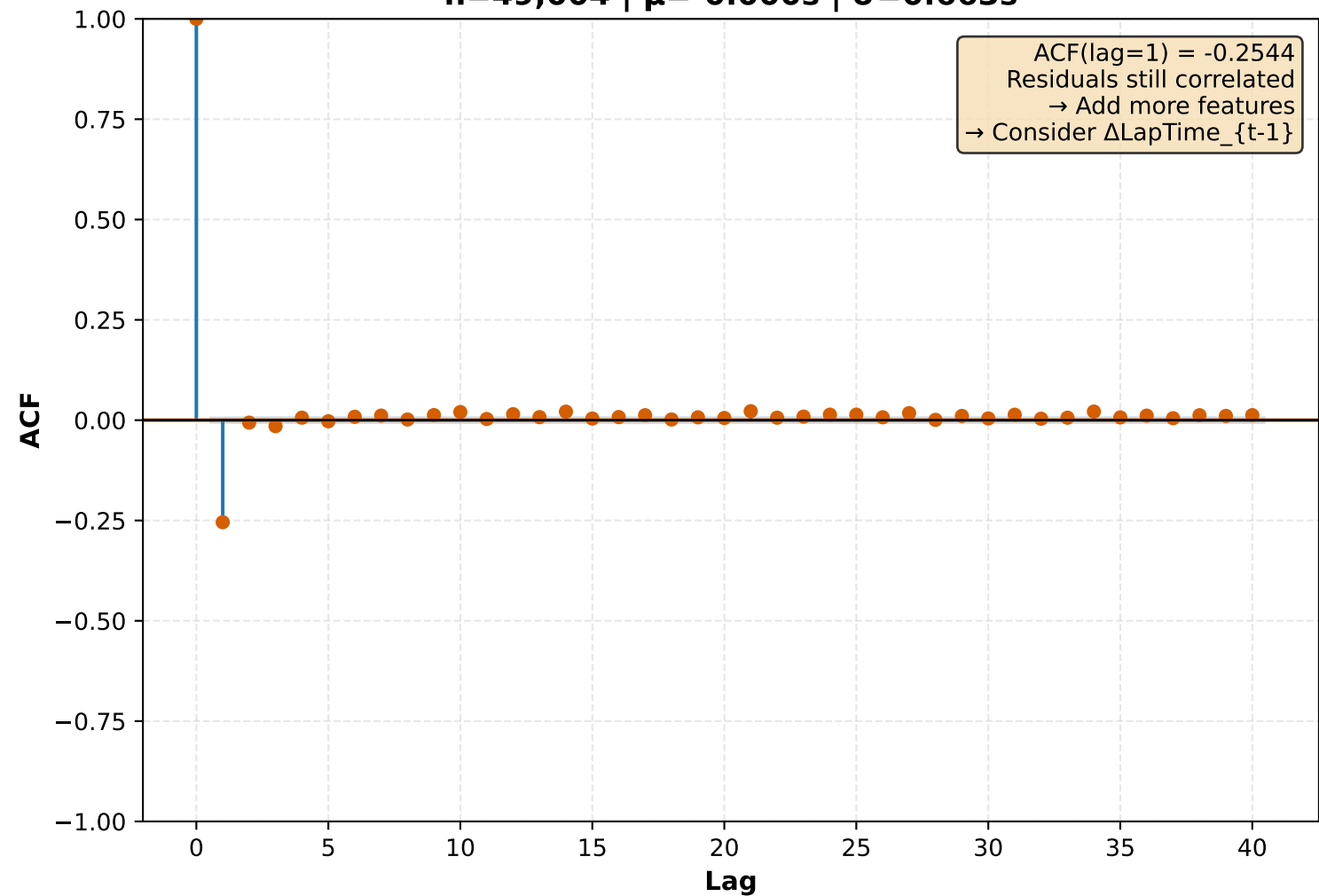
## Autocorrelation Function (ACF) of $\Delta$ LapTime

n=49,004 |  $\mu=-0.002s$  |  $\sigma=0.663s$



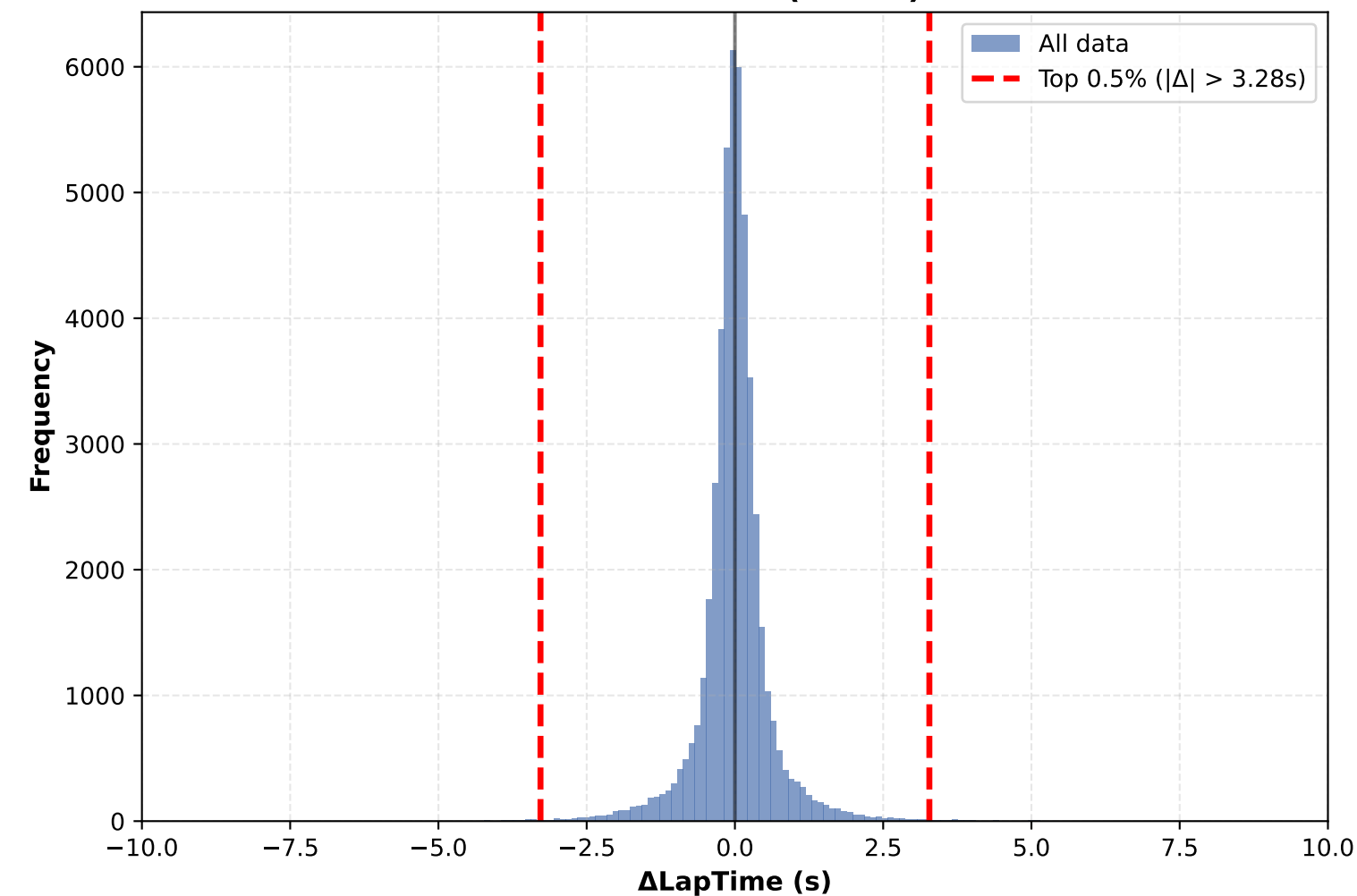
## ACF of Residuals ( $\Delta$ LapTime ~ LapTime\_prev)

n=49,004 |  $\mu=-0.000s$  |  $\sigma=0.663s$



## $\Delta$ LapTime Distribution with Outliers ( $\pm 10s$ view)

Outliers: 531 (1.08%)



## Residual Plot: Baseline Model Diagnostics

Check for patterns (should be random around 0)

