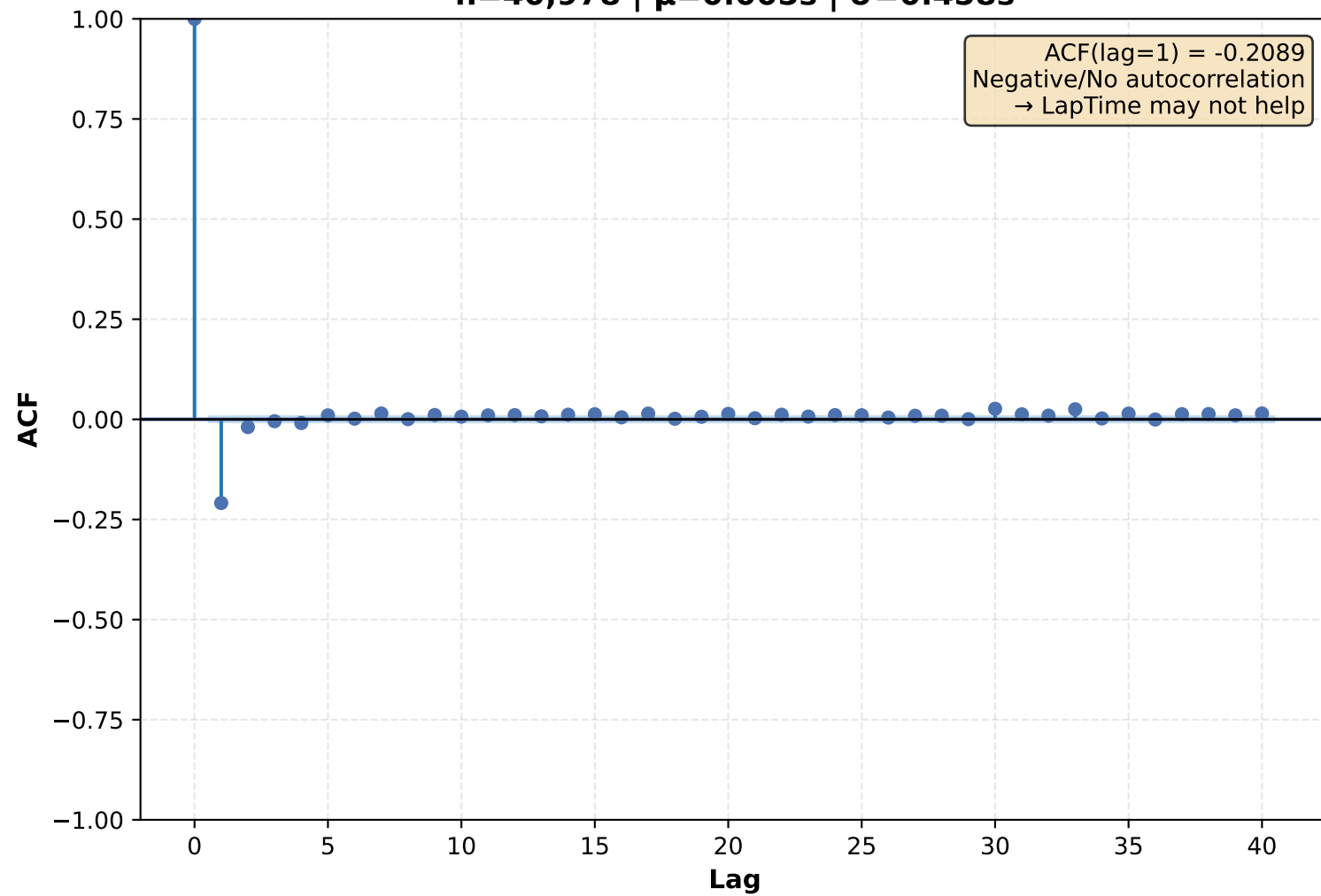
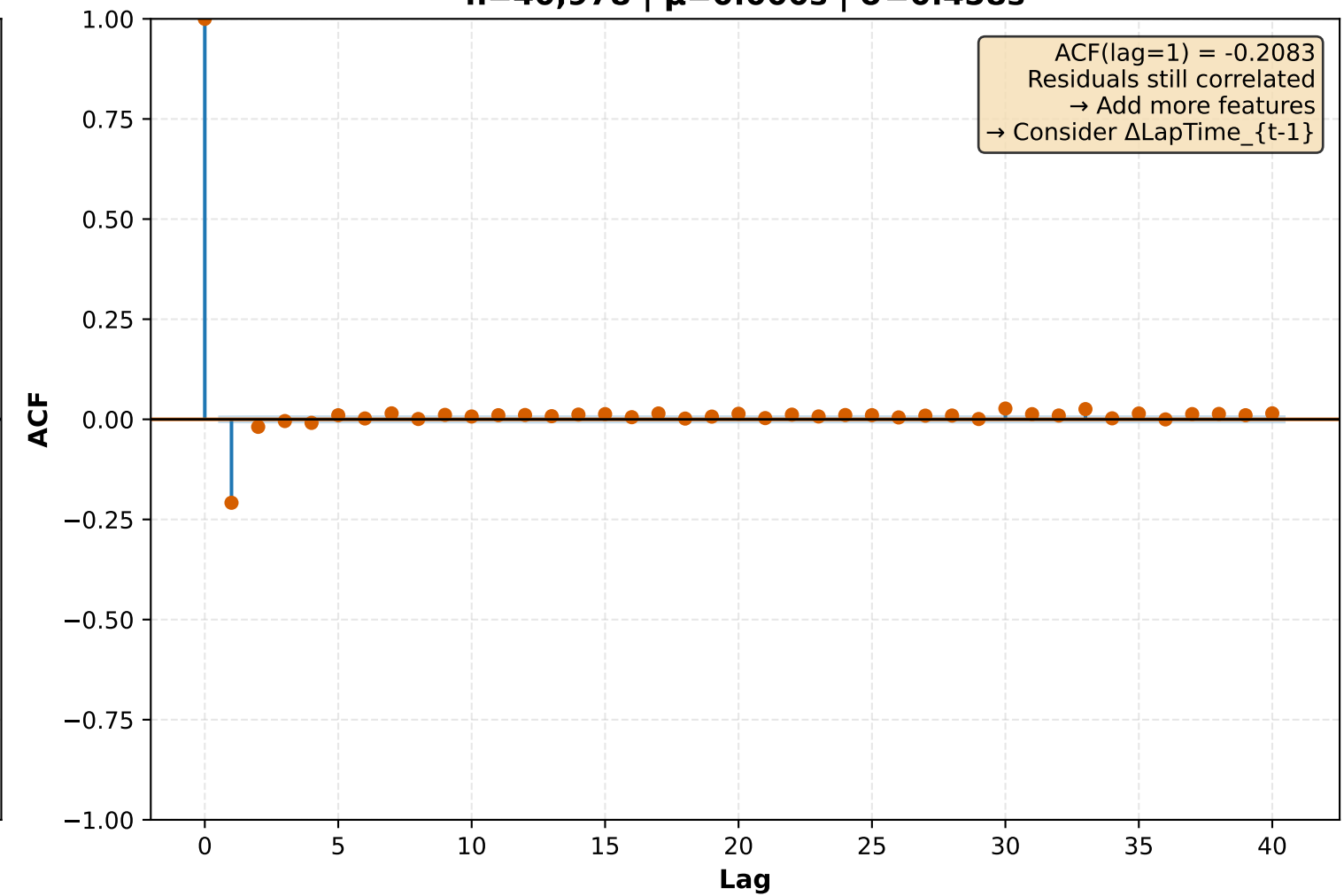


# Autocorrelation Analysis: $\Delta$ LapTime and Baseline Model Residuals

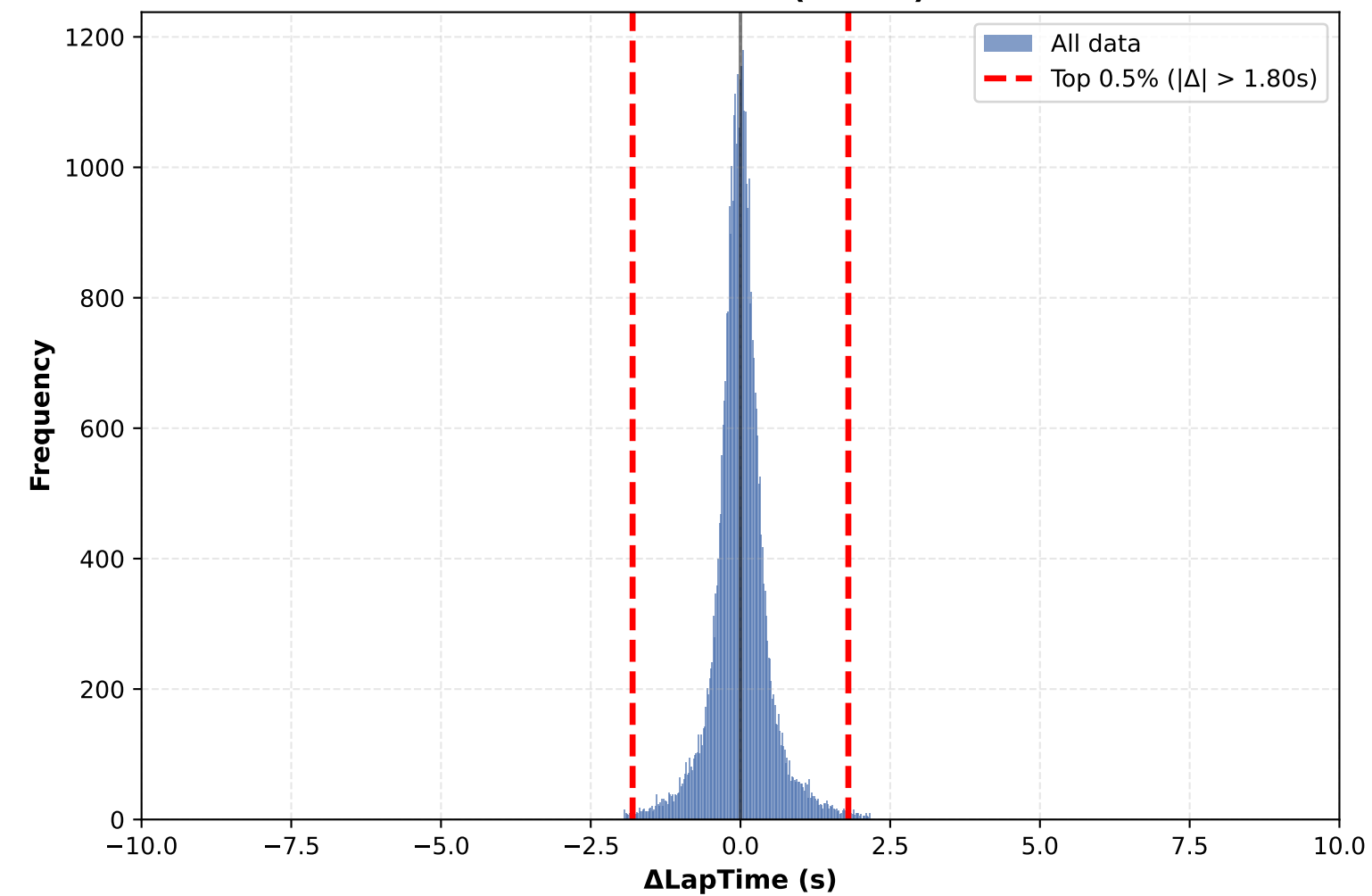
**Autocorrelation Function (ACF) of  $\Delta$ LapTime**  
n=40,978 |  $\mu=0.005s$  |  $\sigma=0.458s$



**ACF of Residuals ( $\Delta$ LapTime ~ LapTime)**  
n=40,978 |  $\mu=0.000s$  |  $\sigma=0.458s$



**$\Delta$ LapTime Distribution with Outliers ( $\pm 10s$  view)**  
Outliers: 455 (1.11%)



**Residual Plot: Baseline Model Diagnostics**  
Check for patterns (should be random around 0)

