# Emilia Romagna Grand Prix, 2021

### Forecasting Yuki Tsunoda's Next 5 Lap Times

Nathan Jones 2022

Name of Variable = time				
Period(s) of Differencing	1,1			
Mean of Working Series	-0.20157			
Standard Deviation	16.57152			
Number of Observations	60			
Observation(s) eliminated by differencing	2			

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	q Autocorrelations					
6	16.61	6	0.0108	-0.421	0.014	0.027	-0.219	-0.006	0.177
12	32.41	12	0.0012	-0.247	0.358	-0.175	-0.017	0.023	-0.022

Variance Estimate	274.656
Std Error Estimate	16.57275
AIC	507.2038
SBC	507.2038
Number of Residuals	60

#### \* AIC and SBC do not include log determinant.

	Autocorrelation Check of Residuals								
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	16.61	6	0.0108	-0.421	0.014	0.027	-0.219	-0.006	0.177
12	32.40	12	0.0012	-0.247	0.358	-0.175	-0.017	0.023	-0.022
18	32.46	18	0.0194	0.019	-0.002	0.000	-0.001	0.009	-0.015
24	32.93	24	0.1056	-0.020	-0.004	0.045	0.024	-0.033	0.028

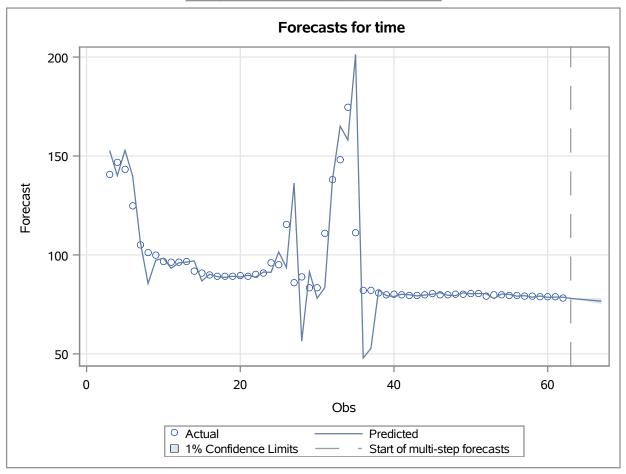
Model for variable time				
Period(s) of Differencing	1,1			

No mean term in this model.

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Forecasts for variable time							
Obs	Forecast	Std Error	1% Confidence Limits				
63	78.0080	16.5727	77.8003	78.2157			
64	77.6630	37.0578	77.1985	78.1275			
65	77.3180	62.0095	76.5408	78.0952			
66	76.9730	90.7727	75.8353	78.1107			
67	76.6280	122.9068	75.0876	78.1684			



Outlier Detection Summary				
Maximum number searched	2			
Number found	2			
Significance used	0.05			

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Outlier Details						
Obs	Туре	Estimate	Chi-Square	Approx Prob>ChiSq		
34	Additive	38.43983	4790.71	<.0001		
26	Additive	25.76567	2152.38	<.0001		