

Arellano-Bond Estimator

Linear regression function:

$$Y_{i,t} = \beta_0 + \beta_1 * Y_{i,t-1} + \beta_2 * T_{i,t} + \beta_3 * T_{i,t}^2 + \beta_4 * P_{i,t} + \beta_5 * P_{i,t}^2 + \epsilon_{i,t}$$

where

- Y : growth rate of GDP per capita
- T : temperature
- P : precipitation

Results:

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Arellano-Bond dynamic panel-data estimation      Number of obs      =      1,994
Group variable: id                               Number of groups   =      167
Time variable: year

Obs per group:
      min =      2
      avg =    11.94012
      max =     12

Number of instruments =      84                  Wald chi2(6)       =      20.04
                                                Prob > chi2        =      0.0027

One-step results
                                (Std. Err. adjusted for clustering on id)

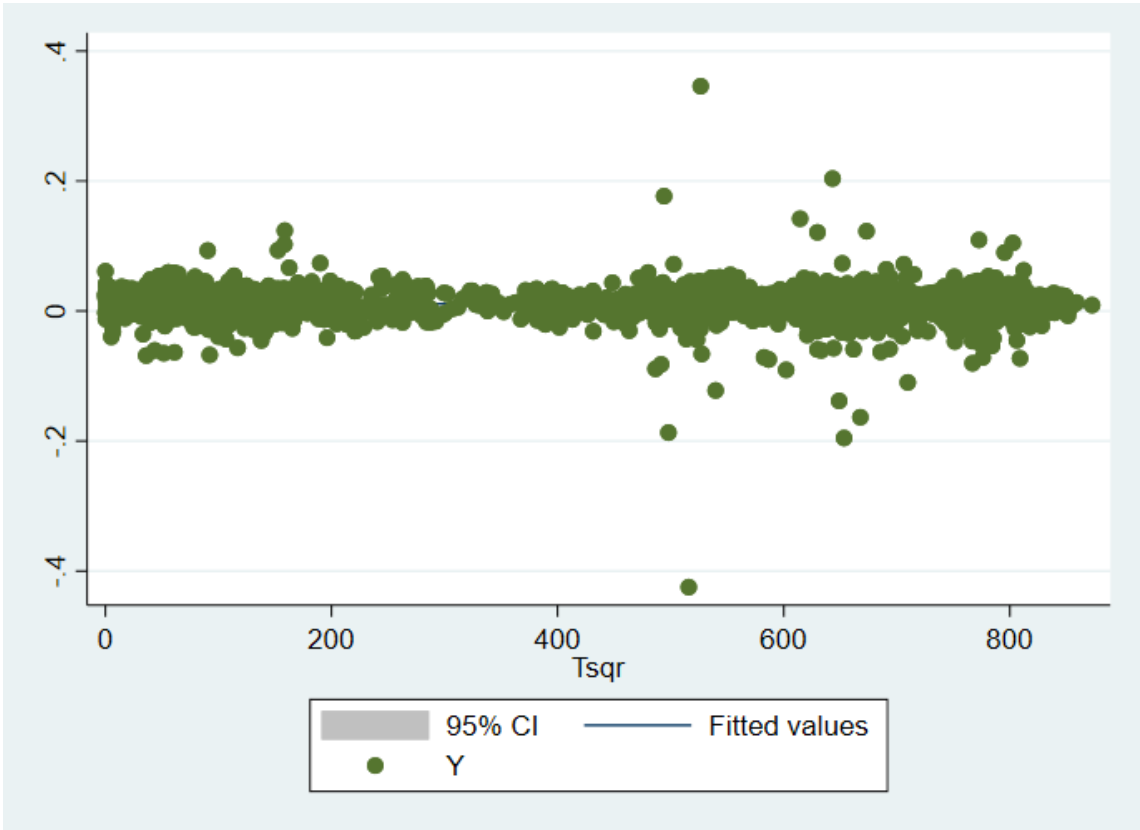
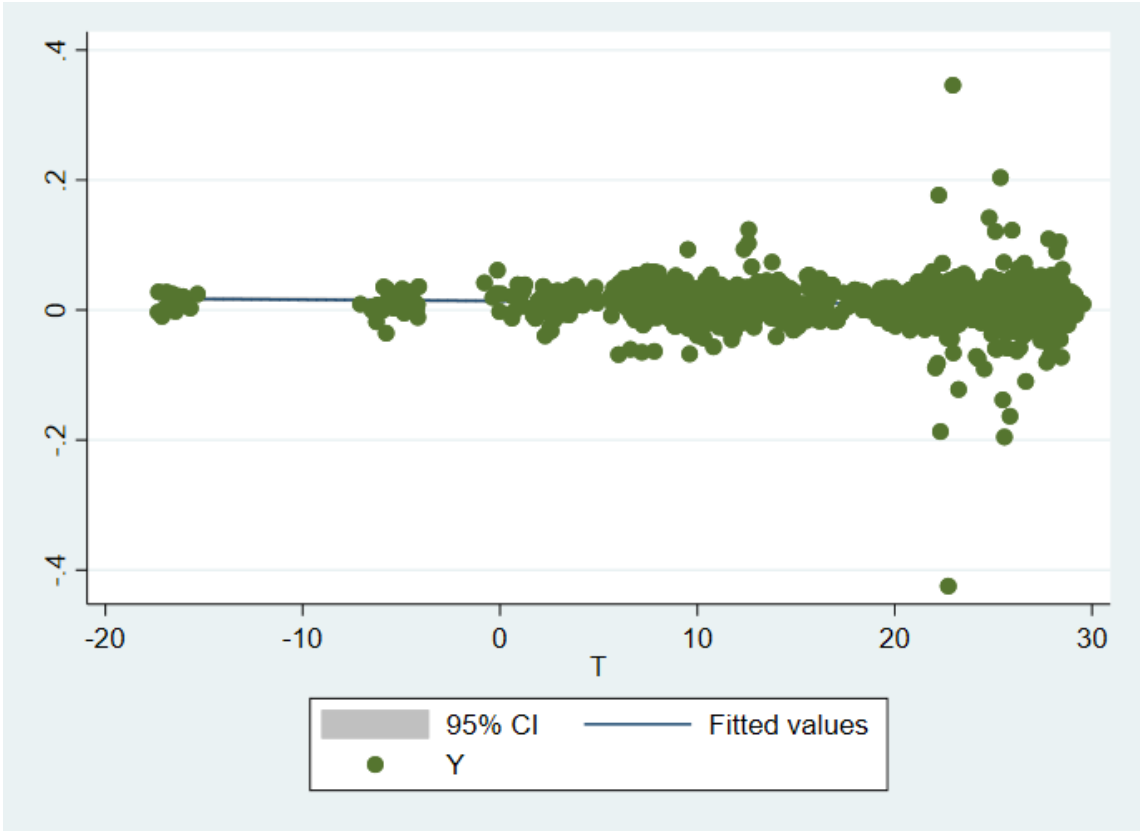
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	Coef.	Robust Std. Err.	z	P> z	[95% Conf. Interval]	
Y						
L1.	-.0105582	.1735573	-0.06	0.951	-.3507243	.3296079
lagy	-.0309451	.0184456	-1.68	0.093	-.0670978	.0052077
t	.0028114	.0016825	1.67	0.095	-.0004863	.0061091
tsqr	-.0001935	.0000562	-3.44	0.001	-.0003036	-.0000834
p	.0000938	.0000713	1.31	0.189	-.0000461	.0002336
psqr	-1.81e-07	1.50e-07	-1.21	0.226	-4.75e-07	1.12e-07
_cons	.0377637	.026301	1.44	0.151	-.0137852	.0893127

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Instruments for differenced equation
      GMM-type: L(2/.) .y
      Standard: D.lagy D.t D.tsqr D.p D.psqr
Instruments for level equation
      Standard: _cons

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In []: