

# Forschung

## Politik - Strategie - Management

*Kinzelbach, K./Pelke, L. (2022):*

Supplementary Appendix für „Wie notwendig sind autonome Universitäten? Zum empirischen Zusammenhang der institutionellen und individuellen Wissenschaftsfreiheit“.

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Tab. A1: Deskriptive Statistik Datensatz

Variable	Unique (#)	Missing (%)	Mean	SD	Min	Median	Max
Country ID	183	0					
Jahr	122	0			1900	1965	2021
Freiheit der Forschung und Lehre	1482	25	0.236	1.505	-3.667	0.311	3.361
Institutionelle Autonomie der Hochschulen	1460	26	0.186	1.542	-3.476	0.030	3267
Demokratiegrad	919	1	0.308	0.279	0.006	0.194	0.926
Physical Integrity Index	963	1	0.533	0.306	0.014	0.528	0.990
GDP pc	9026	19	1.452	1.103	-1.252	1.249	5.054
Bevölkerungsgröße	15524	19	6.433	1.708	1.082	6.444	11.907
Vertikale Rechenschaftspflicht	3122	2	0.007	0.955	-1.602	0.016	1.804
Diagonale Rechenschaftspflicht	3722	2	-0.006	0.984	-2.137	-0.107	2.096
Horizontale Rechenschaftspflicht	3775	2	-0.004	0.951	-2.410	-0.073	2.375
Präsidentialismus Index	981	1	0.528	0.305	0.008	0.571	0.995

Tab. A2: TWFE Estimators

	Model 1	Model 2	Model 3
Institutional Autonomy	<b>0.819***</b> [0.750, 0.889]	<b>0.343***</b> [0.257, 0.429]	<b>0.282***</b> [0.204, 0.361]
Campus Integrity		0.442*** [0.363, 0.521]	0.382*** [0.312, 0.452]
Electoral democracy Index		0.615*** [0.269, 0.961]	
Physical Integrity Index		0.402* [0.045, 0.759]	-0.016 [-0.351, 0.319]
GDP pc (log)		-0.002 [-0.129, 0.125]	0.047 [-0.060, 0.154]
Population (log)		-0.012 [-0.182, 0.158]	-0.017 [-0.165, 0.131]
Vertical Accountability			0.000 [-0.069, 0.068]
Diagonal Accountability			0.457*** [0.294, 0.620]
Horizontal Accountability			-0.021 [-0.153, 0.111]
Presidentialism Index			-0.022 [-0.498, 0.454]
N	14201	13273	13301
R2	0.900	0.934	0.939
R2 Adj.	0.897	0.932	0.938

Tab. A3: TWFE Estimators mit zeitlich verzögerter abhängige Variable

	Model 4	Model 5	Model 6
Lagged DV	0.940*** [0.926, 0.953]	0.923*** [0.902, 0.943]	0.908*** [0.886, 0.930]
Institutional Autonomy	<b>0.024**</b> [0.010, 0.039]	<b>0.019*</b> [0.002, 0.036]	<b>0.013</b> [-0.004, 0.031]
Campus Integrity		0.026** [0.007, 0.045]	0.023* [0.003, 0.042]
Electoral democracy Index		-0.123*** [-0.186, -0.059]	
Physical Integrity Index		0.090* [0.015, 0.165]	0.018 [-0.065, 0.100]
GDP pc (log)		0.008 [-0.012, 0.027]	0.010 [-0.009, 0.030]
Population (log)		-0.014 [-0.037, 0.009]	-0.012 [-0.034, 0.010]
Vertical Accountability			-0.012 [-0.033, 0.009]
Diagonal Accountability			0.030* [0.001, 0.059]
Horizontal Accountability			-0.001 [-0.026, 0.025]
Presidentialism Index			-0.046 [-0.146, 0.055]
Num.Obs.	14200	13272	13300
R2	0.977	0.978	0.978
R2 Adj.	0.976	0.977	0.977

Tab. A4: Instrumental Variable Regression mit TWFE und „Rule of Law Index“ als exogenes Instrument für institutionelle Autonomie. Abgetragen: second stage results.

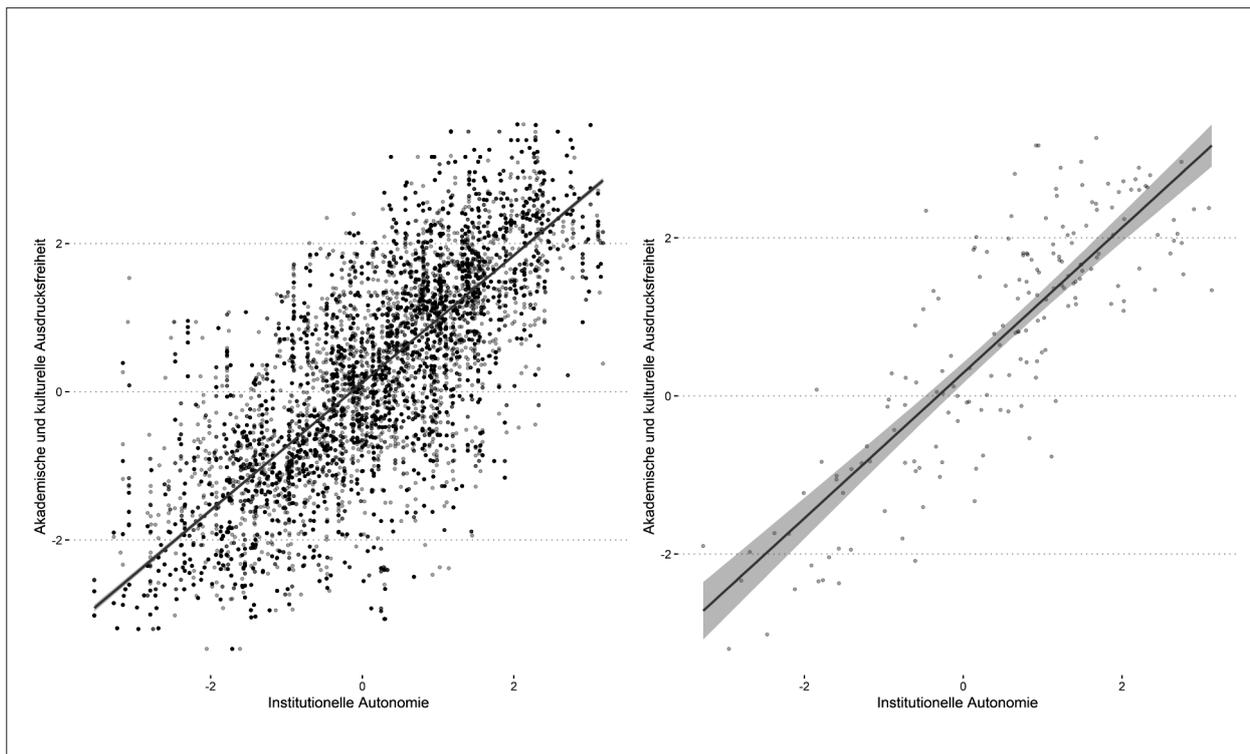
	Model 1	Model 2	Model 3
Institutional	<b>1.028***</b>	<b>0.479**</b>	<b>1.124+</b>
Autonomy	[1.007, 1.049]	[0.148, 0.811]	[-0.133, 2.380]
Campus		0.343**	-0.149
Integrity		[0.102, 0.584]	[-0.944, 0.645]
Electoral		0.496**	
democracy		[0.200, 0.792]	
Index			
Physical		0.393***	0.257
Integrity Index		[0.310, 0.476]	[-0.173, 0.687]
GDP pc (log)		-0.007	-0.015
		[-0.034, 0.020]	[-0.112, 0.081]
Population		-0.033	-0.123
(log)		[-0.089, 0.023]	[-0.287, 0.041]
Vertical			0.030
Accountability			[-0.022, 0.082]
Diagonal			0.146
Accountability			[-0.319, 0.612]
Horizontal			0.029
Accountability			[-0.061, 0.118]
Presidentialism			0.544
Index			[-0.325, 1.414]
Num.Obs.	14201	13273	13301
R2	0.887	0.932	0.886
R2 Adj.	0.885	0.931	0.884
Weak	6715.8***	39.418***	4.276*
instruments			
Wu-Hausman	881.6***	0.878	3.734+
Chi-Sq.			

Tab. A5: Instrumental Variable Regression mit TWFE und lagged DV und „Rule of Law Index“ als exogenes Instrument für institutionelle Autonomie. Abgetragen: second stage results.

	Model 4	Model 5	Model 6
Institutional	<b>0.108**</b>	<b>0.228</b>	<b>0.439</b>
Autonomy	[0.033, 0.183]	[-0.045, 0.500]	[-0.719, 1.598]
Lagged DV	0.871***	0.827***	0.730**
	[0.807, 0.934]	[0.699, 0.955]	[0.246, 1.213]
Campus		-0.058	-0.142
Integrity			
		[-0.169, 0.052]	[-0.593, 0.308]
Electoral		-0.199***	
democracy			
Index			
Physical		0.110***	0.132
Integrity Index		[0.053, 0.168]	[-0.198, 0.462]
GDP pc (log)		0.000	-0.010
		[-0.017, 0.016]	[-0.066, 0.046]
Population		-0.040*	-0.060
(log)			
		[-0.077, -0.003]	[-0.192, 0.072]
Vertical			0.004
Accountability			[-0.040, 0.048]
Diagonal			-0.024
Accountability			[-0.175, 0.127]
Horizontal			0.017
Accountability			[-0.039, 0.074]
Presidentialis			0.210
m Index			[-0.500, 0.921]
Num.Obs.	14200	13272	13300
R2	0.976	0.975	0.978
R2 Adj.	0.976	0.974	0.977
Weak	379.660***	34.8***	1.807
instruments			
Wu-Hausman	9.741**	4.5*	0.955
Chi-Sq.			

## Appendix A2: Zusammenhang von akademischer und kultureller Ausdrucksfreiheit durch institutionelle Autonomie der Hochschulen

Abb. A1: Zusammenhang von Institutioneller Autonomie der Universitäten und akademische und kulturelle Ausdrucksfreiheit basierend auf Länderjahrebeobachtungen.



A) 1900-2021, B) 2021. Daten basierend auf *Varieties of Democracy, Version 12*. Beide hier abgetragenen Variablen basieren auf den model estimates des *V-Dem Measurement Models* und enthalten daher auch negative Werte.

Tab. A6: TWFE Estimators für akademische und kulturelle Ausdrucksfreiheit

	Model 1	Model 2	Model 3
Institutional Autonomy	<b>0.740***</b> [0.644, 0.836]	<b>0.108+</b> [-0.008, 0.223]	<b>-0.031</b> [-0.112, 0.051]
Campus Integrity		0.292*** [0.193, 0.391]	0.149*** [0.069, 0.230]
Electoral democracy Index		1.764*** [1.294, 2.234]	
Physical Integrity Index		1.773*** [1.158, 2.389]	0.830*** [0.390, 1.270]
GDP pc (log)		-0.031 [-0.164, 0.102]	0.083 [-0.024, 0.190]
Population (log)		-0.146+ [-0.300, 0.008]	-0.157* [-0.285, -0.028]
Vertical Accountability			-0.060 [-0.142, 0.021]
Diagonal Accountability			1.066*** [0.896, 1.236]
Horizontal Accountability			0.045 [-0.101, 0.191]
Presidentialism Index			-0.135 [-0.636, 0.365]
Num.Obs.	14283	13296	13324
R2	0.817	0.891	0.917
R2 Adj.	0.813	0.889	0.915

Tab. A7: TWFE Estimators für akademische und kulturelle Ausdrucksfreiheit mit lagged DV

	Model 4	Model 5	Model 6
Lagged DV	0.926*** [0.914, 0.937]	0.906*** [0.890, 0.921]	0.874*** [0.856, 0.892]
Institutional Autonomy	<b>0.037***</b> [0.023, 0.051]	<b>0.009</b> [-0.009, 0.027]	<b>-0.003</b> [-0.022, 0.016]
Campus Integrity		0.052*** [0.034, 0.071]	0.044*** [0.024, 0.064]
Electoral democracy Index		-0.112** [-0.187, -0.037]	
Physical Integrity Index		0.093+ [-0.003, 0.189]	0.038 [-0.057, 0.132]
GDP pc (log)		0.010 [-0.010, 0.029]	0.016 [-0.005, 0.037]
Population (log)		-0.008 [-0.028, 0.012]	-0.010 [-0.031, 0.011]
Vertical Accountability			-0.016 [-0.039, 0.008]
Diagonal Accountability			0.079*** [0.041, 0.116]
Horizontal Accountability			0.022 [-0.012, 0.057]
Presidentialis m Index			0.039 [-0.103, 0.182]
Num.Obs.	14283	13296	13324
R2	0.967	0.968	0.968
R2 Adj.	0.967	0.967	0.967

Abb A2: Effekt (standardisiert) von Institutioneller Autonomie auf kulturelle und akademische Ausdrucksfreiheit

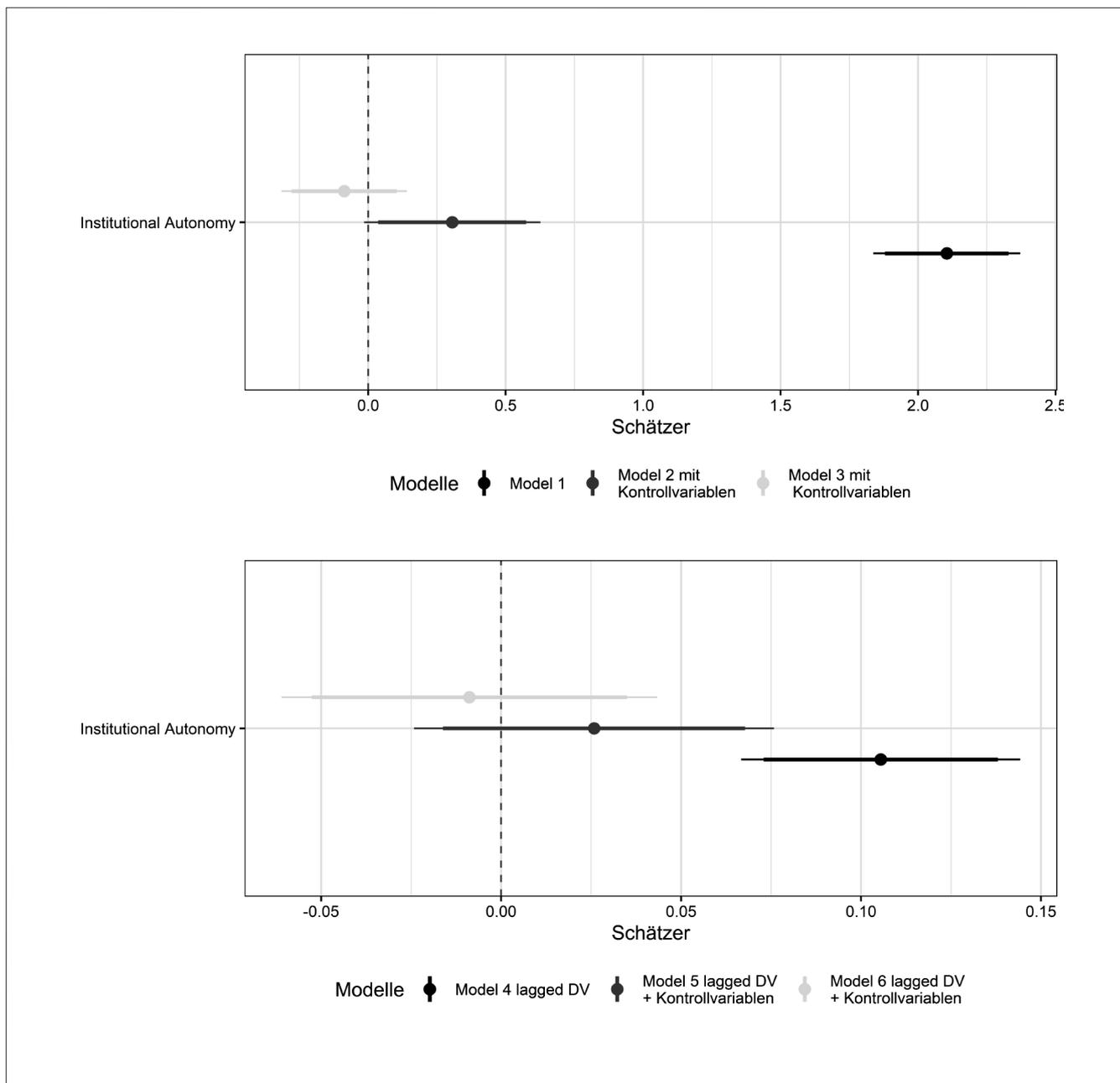


Abb A3: Geschätzte Werte für kulturelle und akademische Ausdrucksfreiheit., Model 2 und Model 4

