

# Charter School Heterogeneity: CF Output Tables

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## 1 Graduation Rate Results

Table 1: Group covariate means between significantly positive districts vs. significantly negative districts

	Covariate	Significantly Positive	Significantly Negative	Difference (Positive - Negative)
1	Log of Enrollment	7.74	7.20	0.54
2	Percent White	0.75	0.75	-0.01
3	Percent Black	0.10	0.10	0.00
4	Percent Hispanic	0.11	0.10	0.01
5	Percent Free/Reduced Lunch	0.30	0.33	-0.02
6	Percent Special Ed	0.13	0.13	-0.00
7	Urban	0.09	0.04	0.05
8	Suburb	0.26	0.26	0.00
9	Town	0.17	0.15	0.01
10	Rural	0.49	0.55	-0.07
11	Per Pupil Revenue	9401.96	9880.60	-478.63
12	Per Pupil Expenditure	9461.26	10014.08	-552.82
13	Student-Teacher Ratio	15.56	14.73	0.83
14	Teacher Salary	74161.61	72180.81	1980.80
15	Number of Magnet Schools	0.13	0.00	0.13
16	Charter Effectiveness	0.77	0.79	-0.02
17	Number of Observations	4748.00	447.00	5195.00

Table 2: Avg treatment effects of pre-specified subgroups

	Group	GATE	SE	p.value	X..N
1	Urban	0.49	0.31	0.12	0.06
2	Suburban	-0.18	0.18	0.32	0.23
3	Rural	0.55	0.60	0.36	0.52
4	Percent Free Lunch > 20%	0.37	0.20	0.07	0.60

Table 3: Best linear projection  $\tau(X) = \alpha + \beta X + e$

Variable	Estimate	Std..Error	t.value	Pr...t..
(Intercept)	0.19	0.05	3.59	0.00
logenroll	0.00	0.00	0.24	0.81
perhsp	0.00	0.00	1.58	0.11
perfrl	0.01	0.52	0.03	0.98
perwht	-89658166.79	71822510.31	-1.25	0.21
str	0.12	1.81	0.06	0.95

Figure 1: VIF scores

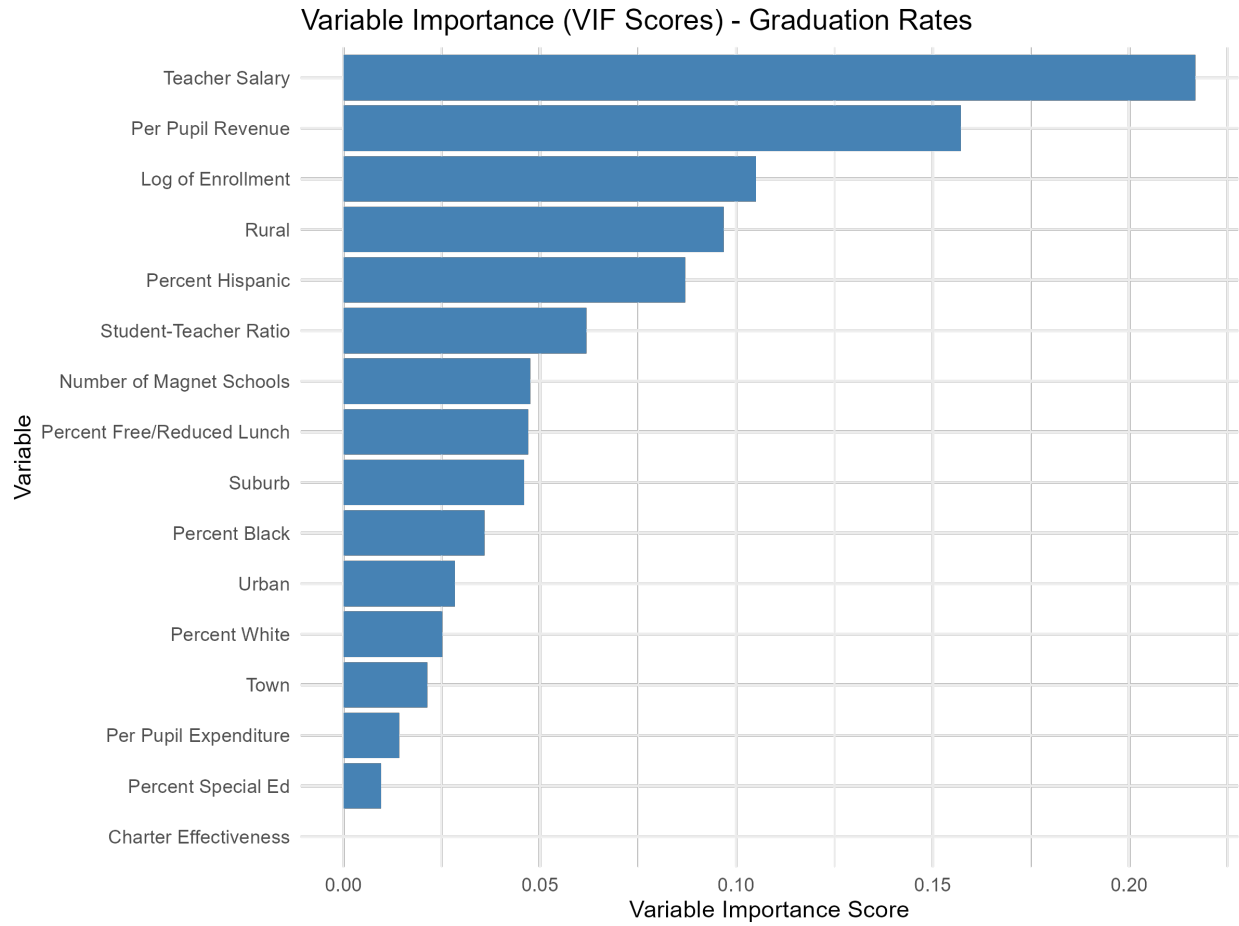
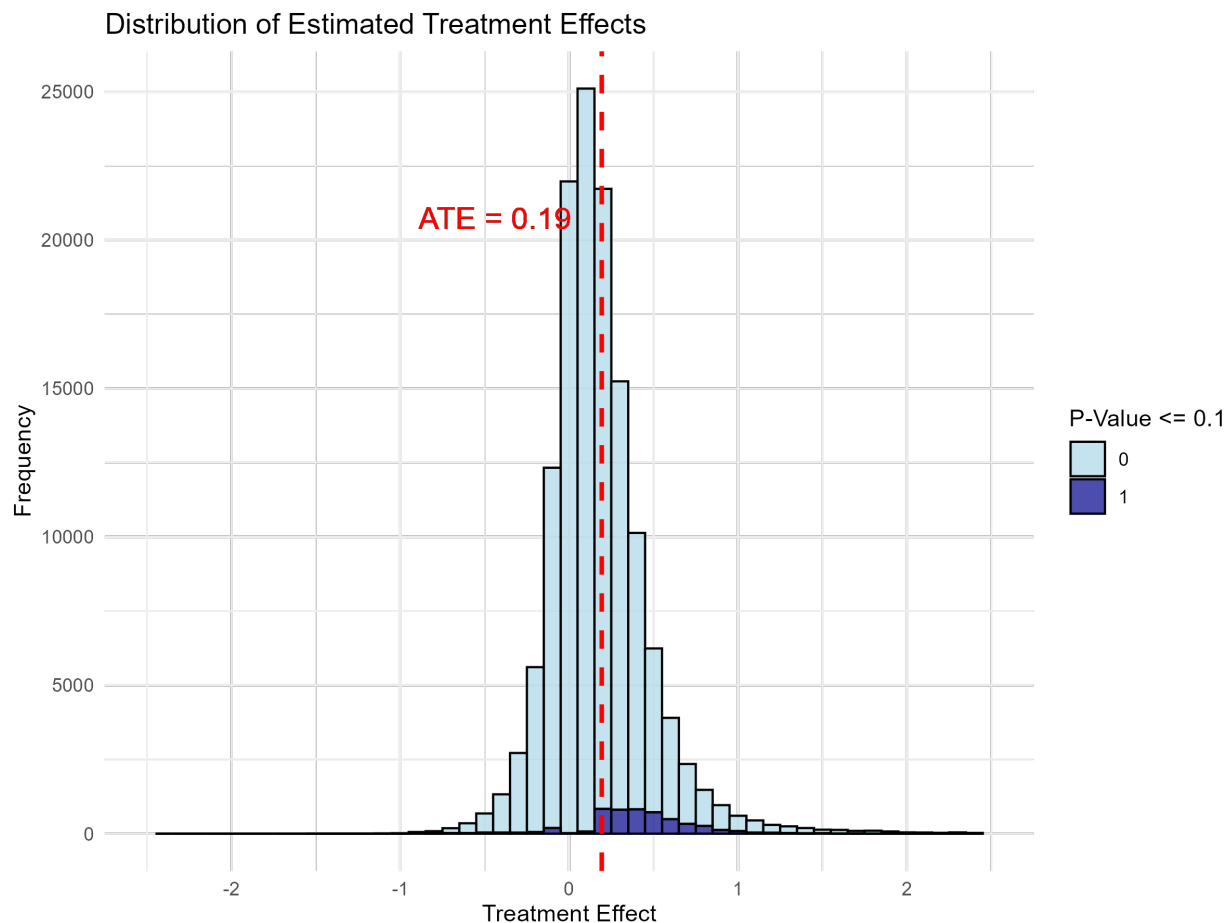


Figure 2: CATE distribution



## 2 Math Test Scores

Table 4: Group covariate means between significantly positive districts vs. significantly negative districts

	Covariate	Significantly Positive	Significantly Negative	Difference (Positive - Negative)
1	Log of Enrollment	7.56	7.52	0.04
2	Percent White	0.71	0.72	-0.01
3	Percent Black	0.08	0.10	-0.02
4	Percent Hispanic	0.15	0.13	0.02
5	Percent Free/Reduced Lunch	0.47	0.51	-0.03
6	Percent Special Ed	0.14	0.14	-0.00
7	Urban	0.08	0.07	0.01
8	Suburb	0.29	0.25	0.04
9	Town	0.18	0.21	-0.03
10	Rural	0.45	0.48	-0.03
11	Per Pupil Revenue	13906.13	13282.83	623.30
12	Per Pupil Expenditure	13737.71	13216.79	520.92
13	Student-Teacher Ratio	15.42	15.16	0.26
14	Teacher Salary	96711.34	92103.55	4607.79
15	Number of Magnet Schools	0.10	0.26	-0.15
16	Charter Effectiveness	0.92	0.91	0.00
17	Number of Observations	2810.00	3300.00	6110.00

Table 5: Avg treatment effects of pre-specified subgroups

	Group	GATE	SE	p.value	Share.of.N
1	Urban	-0.15	0.38	0.70	0.06
2	Suburban	0.05	0.31	0.86	0.27
3	Rural	0.45	0.61	0.46	0.48
4	Percent Free Lunch > 20%	0.14	0.22	0.51	0.87

Table 6: Best linear projection  $\tau(X) = \alpha + \beta X + e$

Variable	Estimate	Std..Error	t.value	Pr...t..
(Intercept)	-0.12	0.08	-1.45	0.15
logenroll	-0.00	0.00	-1.86	0.06
perhsp	0.02	0.00	6.75	0.00
perfrl	71848.59	25229.82	2.85	0.00
perwht	0.21	0.30	0.71	0.48
str	0.02	0.06	0.37	0.71

Figure 3: VIF scores

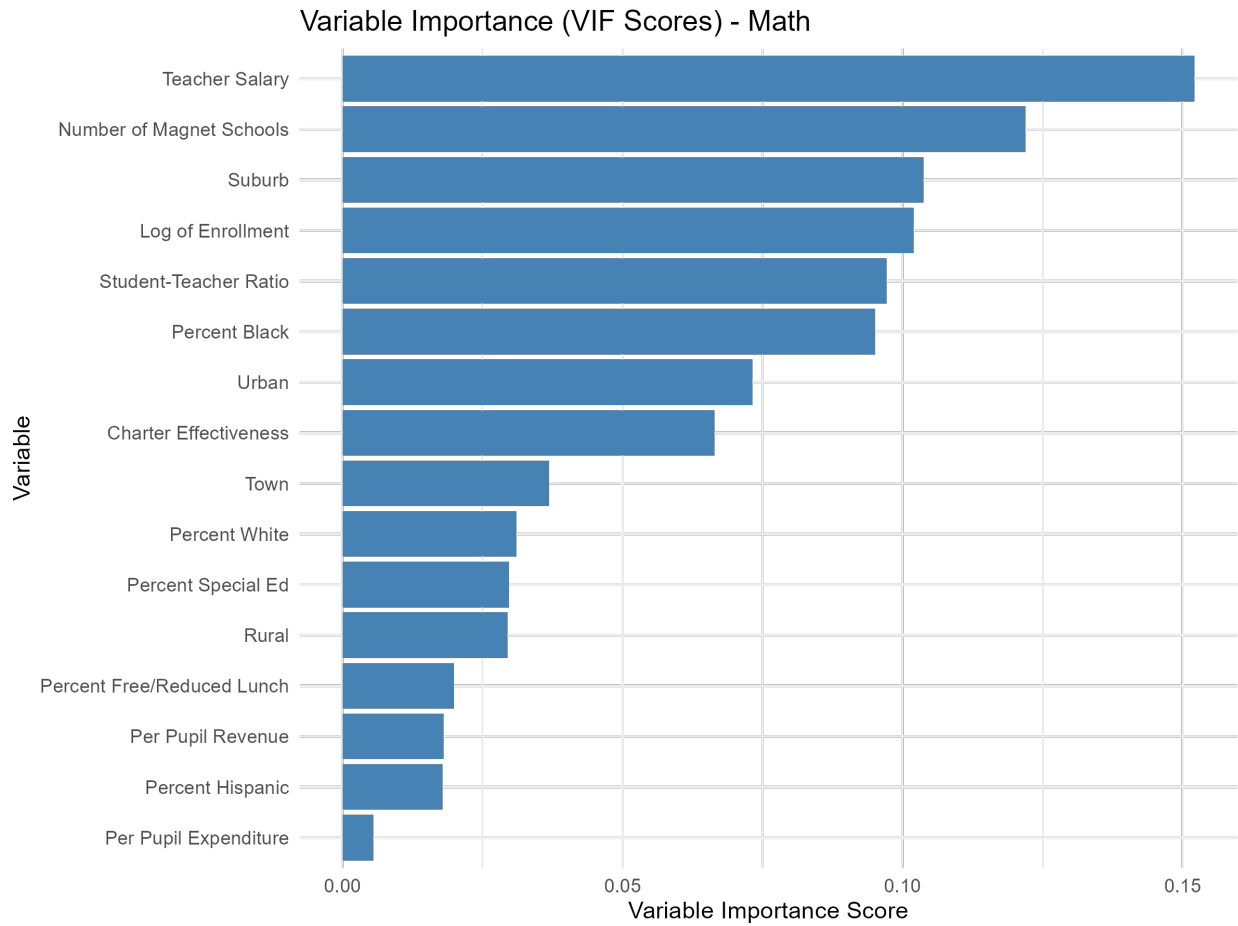
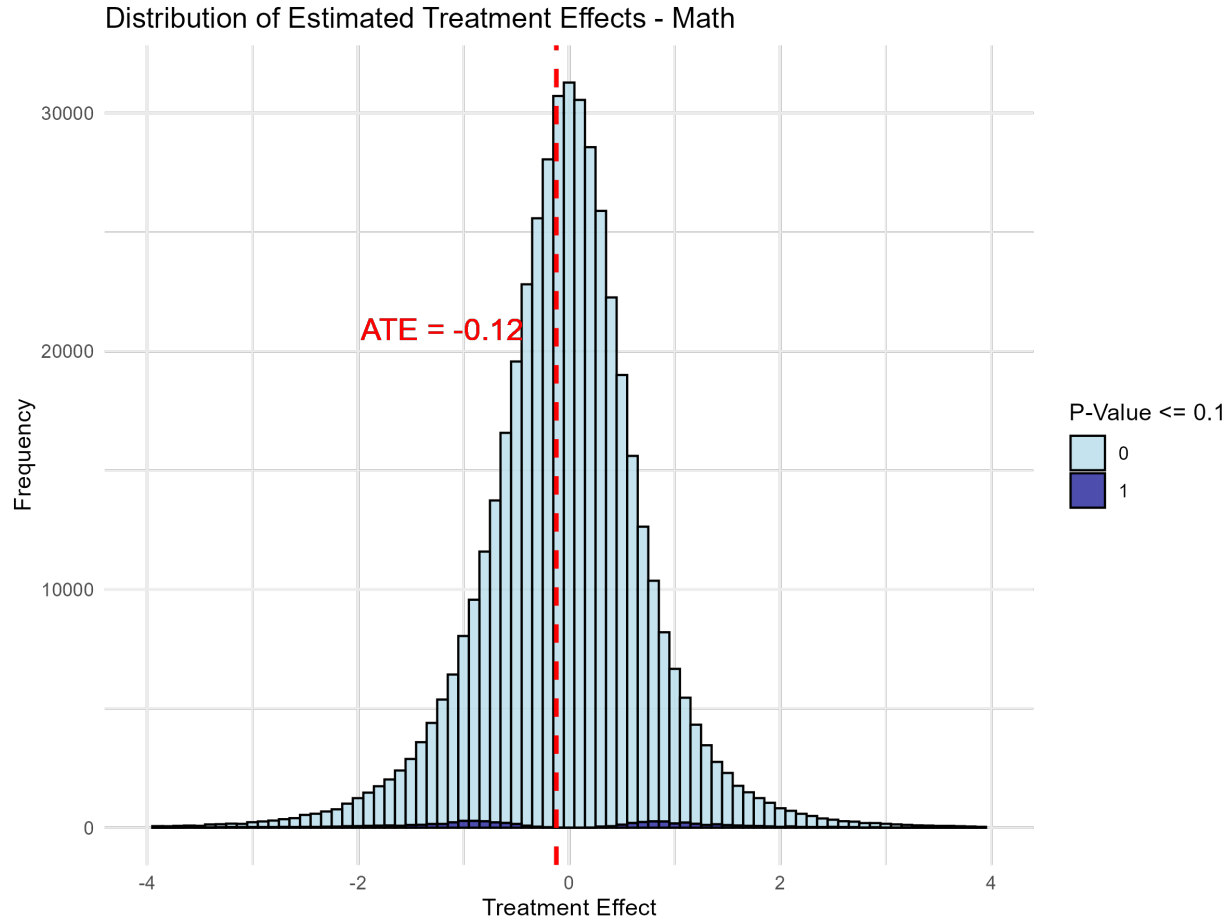


Figure 4: CATE distribution



### 3 ELA Test Scores

Table 7: Group covariate means between significantly positive districts vs. significantly negative districts

	Covariate	Significantly Positive	Significantly Negative	Difference (Positive - Negative)
1	Log of Enrollment	7.61	7.41	0.19
2	Percent White	0.69	0.75	-0.05
3	Percent Black	0.08	0.09	-0.01
4	Percent Hispanic	0.18	0.12	0.06
5	Percent Free/Reduced Lunch	0.49	0.47	0.02
6	Percent Special Ed	0.14	0.14	-0.01
7	Urban	0.08	0.05	0.03
8	Suburb	0.25	0.28	-0.03
9	Town	0.20	0.20	0.00
10	Rural	0.47	0.47	-0.00
11	Per Pupil Revenue	13218.45	13654.17	-435.72
12	Per Pupil Expenditure	13135.72	13558.81	-423.09
13	Student-Teacher Ratio	15.38	15.09	0.29
14	Teacher Salary	94286.84	93436.42	850.42
15	Number of Magnet Schools	0.64	0.18	0.46
16	Charter Effectiveness	0.91	0.93	-0.02
17	Number of Observations	3777.00	2815.00	6592.00

Table 8: Avg treatment effects of pre-specified subgroups

Group	GATE	SE	p.value	Share.of.N
1 Urban	-0.25	0.37	0.49	0.06

Table 9: Best linear projection  $\tau(X) = \alpha + \beta X + e$

Variable	Estimate	Std..Error	t.value	Pr...t..
(Intercept)	0.04	0.07	0.61	0.54
logenroll	-0.02	0.05	-0.36	0.72
perhsp	0.01	0.00	2.71	0.01
perfrl	0.00	0.00	0.75	0.46
perwht	0.24	0.25	0.98	0.33
str	-2.10	3.25	-0.65	0.52

Figure 5: VIF scores

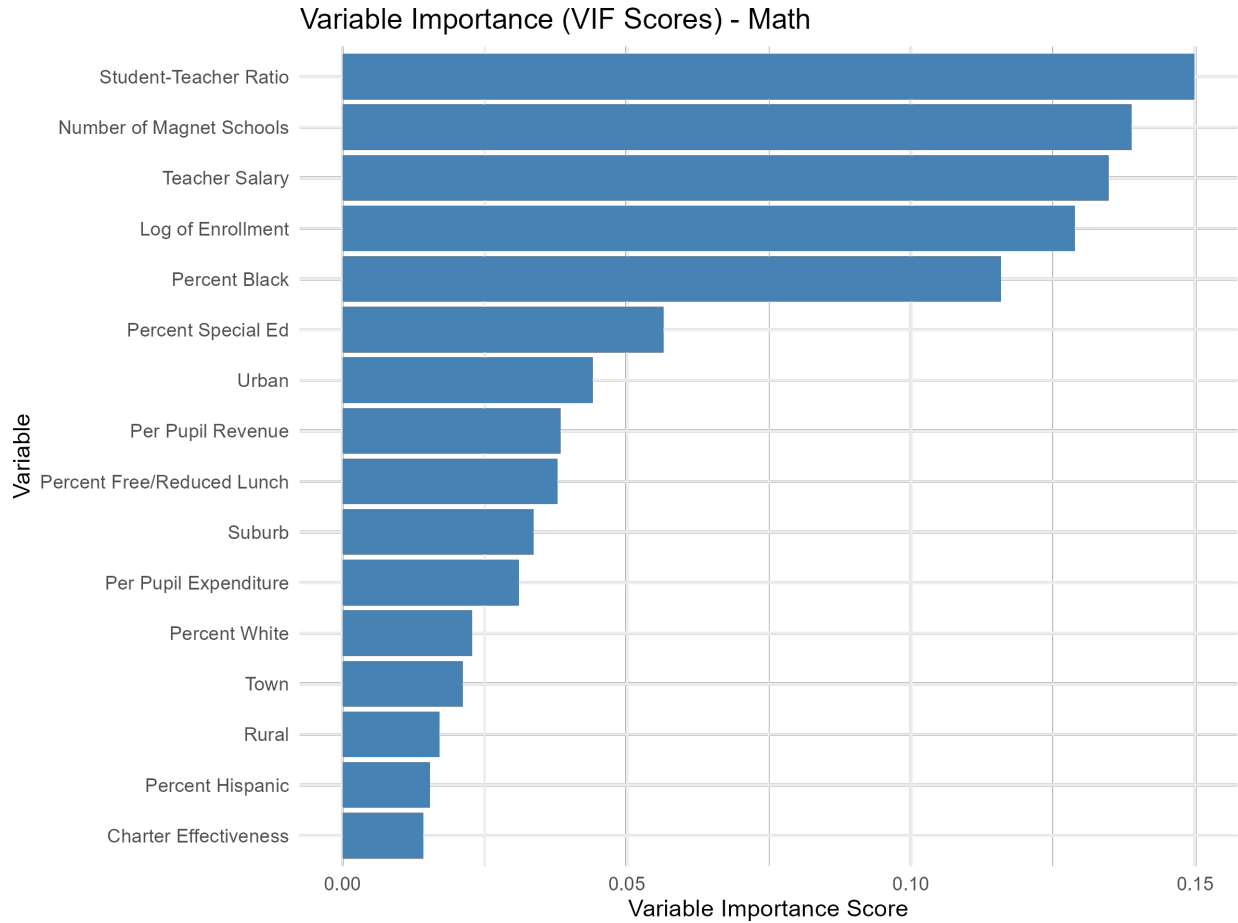


Figure 6: CATE distribution

Distribution of Estimated Treatment Effects - ELA

