Données supplémentaires

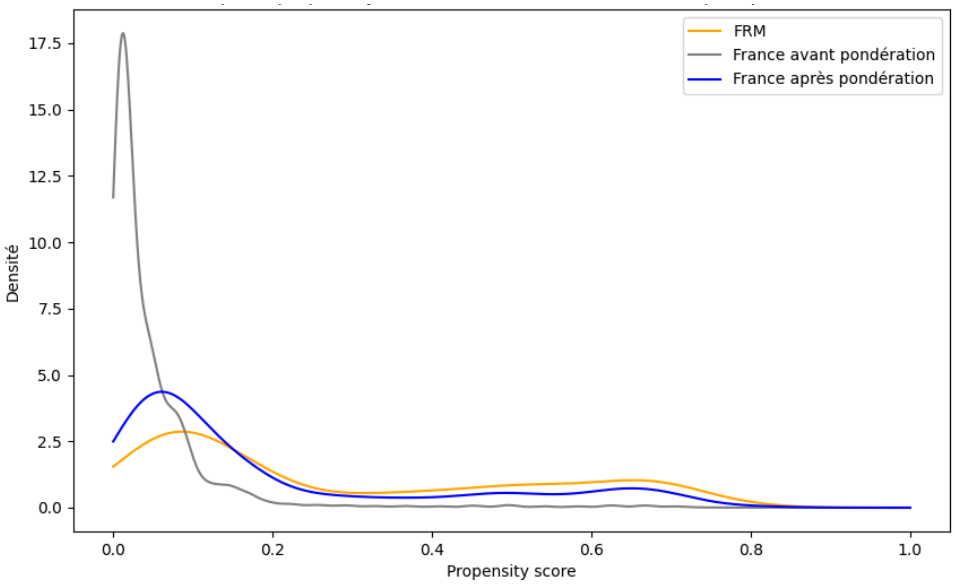
Statistique des scores de propension et des modèles de régression

Effet du financement FRM sur la probabilité d'appartenance aux 99e percentile de citation et au 9e décile de citation

Estimation du score de propension (Logit)

	coef	std err	z	P>|z|	[0.025	0.975]
const	−4.6143	0.276	−16.744	0.000	−5.154	−4.074
is_oa	0.5530	0.103	5.356	0.000	0.351	0.755
source_oa	0.1798	0.081	2.214	0.027	0.021	0.339
fundedbyERC	0.7612	0.249	3.053	0.002	0.273	1.250
fundedbyANR	1.5741	0.106	14.858	0.000	1.366	1.782
num_funders	0.1790	0.023	7.654	0.000	0.133	0.225
num_countries	−0.1841	0.029	−6.376	0.000	−0.241	−0.127
id_field_13	2.4723	0.268	9.238	0.000	1.948	2.997
id_field_16	0.0469	0.433	0.108	0.914	−0.802	0.896
id_field_17	−1.4267	0.487	−2.932	0.003	−2.380	−0.473
id_field_22	−1.2128	0.390	−3.111	0.002	−1.977	−0.449
id_field_23	0.1998	0.334	0.598	0.550	−0.455	0.855
id_field_24	2.7999	0.291	9.606	0.000	2.229	3.371
id_field_25	−0.4849	0.414	−1.171	0.242	−1.297	0.327
id_field_27	1.7748	0.265	6.699	0.000	1.256	2.294
id_field_28	2.4823	0.284	8.726	0.000	1.925	3.040
id_field_29	1.6004	0.534	2.996	0.003	0.553	2.647
id_field_32	1.0962	0.348	3.153	0.002	0.415	1.778
id_field_36	0.6255	0.404	1.548	0.122	−0.167	1.418
id_field_66	−0.9003	0.337	−2.674	0.008	−1.560	−0.240

Densité du score de propension avant et après pondération du corpus contrôle



Generalized Linear Model Regression Results

Dep. Variable:	**in_top_10**	No. Observations:	17507
Model:	GLM	Df Residuals:	1607.09
Model Family:	Binomial	Df Model:	1
Link Function:	Logit	Scale:	1.0000
Method:	IRLS	Log-Likelihood:	-954.27
Date:	--------	Deviance:	1908.5
Time:	--------	Pearson chi2:	1.61e+03
No. Iterations:	4	Pseudo R-squ. (CS):	0.001881
Covariance Type:	HC3		

	coef	std err	z	P>|z|	[0.025	0.975]
const	-1.2203	0.083	-14.687	0.000	-1.383	-1.057
FRM	0.6349	0.112	5.692	0.000	0.416	0.854

Odds ratios :
const 0.295129
FRM 1.886902

Generalized Linear Model Regression Results

Dep. Variable:	**in_top_1**	No. Observations:	17507
Model:	GLM	Df Residuals:	1607.09
Model Family:	Binomial	Df Model:	1
Link Function:	Logit	Scale:	1.0000
Method:	IRLS	Log-Likelihood:	-265.15
Date:	--------	Deviance:	530.30
Time:	--------	Pearson chi2:	1.61e+03
No. Iterations:	7	Pseudo R-squ. (CS):	0.0006284
Covariance Type:	HC3		

	coef	std err	z	P>|z|	[0.025	0.975]
const	-3.6887	0.226	-16.327	0.000	-4.131	-3.246
FRM	0.8735	0.274	3.192	0.001	0.337	1.410

Odds ratios :
const 0.025005
FRM 2.395381

WLS Regression Results

Dep. Variable:	**in_top_10**	R-squared:	0.020
Model:	WLS	Adj. R-squared:	0.020
Method:	Least Squares	F-statistic:	59.44
Date:	--------	Prob (F-statistic):	1.33e-14
Time:	--------	Log-Likelihood:	-20231.
No. Observations:	17507	AIC:	4.047e+04
Df Residuals:	17505	BIC:	4.048e+04
Df Model:	1		
Covariance Type:	HC3		

	coef	std err	z	P>|z|	[0.025	0.975]
const	0.2279	0.007	32.502	0.000	0.214	0.242
FRM	0.1298	0.017	7.710	0.000	0.097	0.163

Omnibus:	7431.807	Durbin-Watson:	1.845
Prob(Omnibus):	0.000	Jarque-Bera (JB):	50671.464
Skew:	1.907	Prob(JB):	0.00
Kurtosis:	10.411	Cond. No.	2.59

WLS Regression Results

Dep. Variable:	**in_top_1**	R-squared:	0.007
Model:	WLS	Adj. R-squared:	0.007
Method:	Least Squares	F-statistic:	16.50
Date:	--------	Prob (F-statistic):	4.88e-05
Time:	--------	Log-Likelihood:	-5647.2
No. Observations:	17507	AIC:	1.130e+04
Df Residuals:	17505	BIC:	1.131e+04
Df Model:	1		
Covariance Type:	HC3		

	coef	std err	z	P>|z|	[0.025	0.975]
const	0.0244	0.002	11.031	0.000	0.020	0.029
FRM	0.0321	0.008	4.062	0.000	0.017	0.048

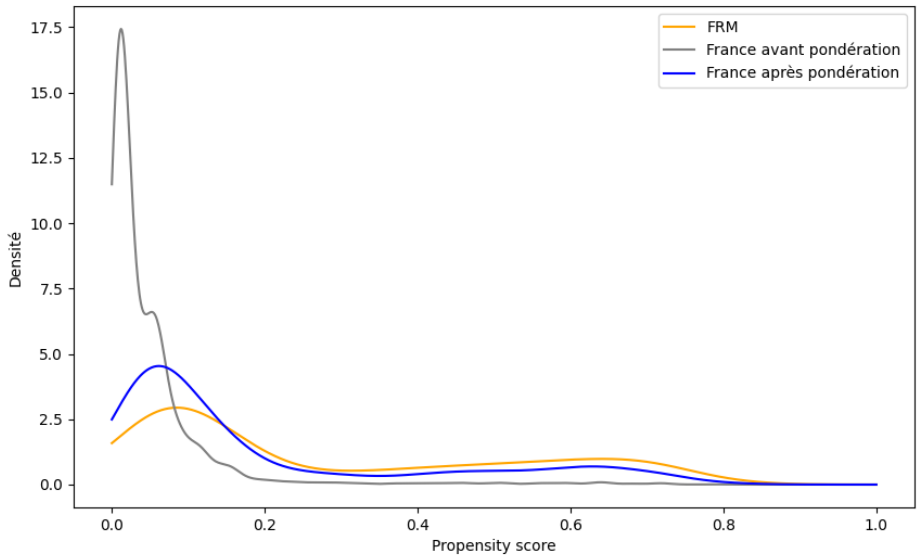
Omnibus:	28782.518	Durbin-Watson:	2.010
Prob(Omnibus):	0.000	Jarque-Bera (JB):	16748728.445
Skew:	11.211	Prob(JB):	0.00
Kurtosis:	152.859	Cond. No.	2.59

Effet du financement FRM sur la probabilité d'accès ouvert des publications

Estimation du score de propension (Logit)

	coef	std err	z	P>|z|	[0.025	0.975]
const	-4.2084	0.268	-15.686	0.000	-4.734	-3.683
fundedbyERC	0.7410	0.251	2.956	0.003	0.250	1.232
fundedbyANR	1.6373	0.106	15.461	0.000	1.430	1.845
num_funders	0.2150	0.023	9.327	0.000	0.170	0.260
num_countries	-0.1603	0.028	-5.626	0.000	-0.216	-0.104
id_field_13	2.4460	0.268	9.139	0.000	1.921	2.971
id_field_16	-0.0567	0.432	-0.131	0.896	-0.904	0.791
id_field_17	-1.4998	0.486	-3.084	0.002	-2.453	-0.547
id_field_22	-1.3241	0.389	-3.400	0.001	-2.087	-0.561
id_field_23	0.1838	0.334	0.550	0.582	-0.471	0.839
id_field_24	2.7567	0.291	9.463	0.000	2.186	3.328
id_field_25	-0.6025	0.414	-1.457	0.145	-1.413	0.208
id_field_27	1.7202	0.265	6.492	0.000	1.201	2.240
id_field_28	2.4550	0.285	8.623	0.000	1.897	3.013
id_field_29	1.5064	0.540	2.788	0.005	0.448	2.565
id_field_32	1.0529	0.348	3.029	0.002	0.372	1.734
id_field_36	0.5726	0.404	1.417	0.156	-0.219	1.364
id_field_66	-0.9138	0.337	-2.713	0.007	-1.574	-0.254

Densité du score de propension avant et après pondération du corpus contrôle



Generalized Linear Model Regression Results

Dep. Variable:	**is_oa**	No. Observations:	18058
Model:	GLM	Df Residuals:	1620.09
Model Family:	Binomial	Df Model:	1
Link Function:	Logit	Scale:	1.0000
Method:	IRLS	Log-Likelihood:	-898.44
Date:	----------	Deviance:	1796.9
Time:	--------	Pearson chi2:	1.62e+03
No. Iterations:	4	Pseudo R-squ. (CS):	0.001437
Covariance Type:	HC3		

	coef	std err	z	P>|z|	[0.025	0.975]
const	0.8344	0.075	11.057	0.000	0.686	0.982
FRM	0.5922	0.117	5.041	0.000	0.362	0.822

Odds ratios :

const	2.303356
FRM	1.807900

WLS Regression Results

Dep. Variable:	**is_oa**	R-squared:	0.016
Model:	WLS	Adj. R-squared:	0.016
Method:	Least Squares	F-statistic:	57.28
Date:	--------	Prob (F-statistic):	3.95e-14
Time:	--------	Log-Likelihood:	-19980.
No. Observations:	18058	AIC:	3.996e+04
Df Residuals:	18056	BIC:	3.998e+04
Df Model:	1		
Covariance Type:	HC3		

	coef	std err	z	P>|z|	[0.025	0.975]
const	0.6973	0.006	117.276	0.000	0.686	0.709
FRM	0.1091	0.014	7.569	0.000	0.081	0.137

Omnibus:	8704.194	Durbin-Watson:	1.959
Prob(Omnibus):	0.000	Jarque-Bera (JB):	83719.563
Skew:	-2.097	Prob(JB):	0.00
Kurtosis:	12.679	Cond. No.	2.59