

Supplementary Materials

Table S1a. Sample characteristics, SSM 2019.

	Test Score	Curriculum Score	Days Passed Since Graduation
<i>Valid</i>	17595	17595	17375
<i>Missing</i>	1	1	221
<i>Mean</i>	83.85	2.59	793.10
<i>Median</i>	84.75	2.50	354.00
<i>Mode</i>	80.00	0.50	344.00
<i>Variance</i>	355.10	2.69	1398674.00
<i>Minimum</i>	-6.00	0.00	8.00
<i>Maximum</i>	133.5	7.00	18235.00
<i>25th percentile</i>	71.25	1.00	258.00
<i>75th percentile</i>	97.50	4.00	830.00

Table S1b. Sample characteristics, SSM 2019.

University of graduation	Number of candidates
<i>Ancona -Politecnica Delle Marche</i>	233
<i>Bari</i>	713
<i>Bologna</i>	722
<i>Brescia</i>	376
<i>Cagliari</i>	340
<i>Catania</i>	626
<i>Catanzaro</i>	281
<i>Chieti Gabriele D'Annunzio</i>	381
<i>Ferrara</i>	400
<i>Firenze</i>	543
<i>Foggia</i>	176
<i>Genova</i>	443
<i>Humanitas University</i>	6
<i>L'Aquila</i>	259
<i>Messina</i>	471
<i>Milano Statale</i>	601
<i>Milano-Bicocca</i>	184
<i>Milano Vita-Salute San Raffaele</i>	171
<i>Modena e Reggio Emilia</i>	255
<i>Napoli Federico II</i>	785
<i>Padova</i>	637
<i>Palermo</i>	839
<i>Parma</i>	415
<i>Pavia</i>	442
<i>Perugia</i>	449
<i>Pisa</i>	499

<i>Roma Campus Bio-Medico</i>	144
<i>Roma La Sapienza</i>	1710
<i>Roma Tor Vergata</i>	449
<i>Roma Università Cattolica Sacro Cuore</i>	458
<i>Roma Università Pontificia Salesiana</i>	1
<i>Salerno</i>	221
<i>Sassari</i>	276
<i>Siena</i>	276
<i>Torino</i>	744
<i>Trieste</i>	224
<i>Udine</i>	129
<i>Università Degli Studi Del Molise</i>	82
<i>Università Degli Studi Del Piemonte Orientale Amedeo Avogadro</i>	132
<i>Università Degli Studi Della Campania Luigi Vanvitelli</i>	559
<i>Varese Università Dell'Insubria</i>	248
<i>Verona</i>	262
<i>Graduated Abroad</i>	213
NA	220

Table S2. Control Analysis, Days passed between graduation and SSM2019.

Time cut-off	All included	365d	730d
<i>estimated beta</i>	-0.004	0.083	0.002
<i>p-value</i>	<2e-16	<2e-16	0.06

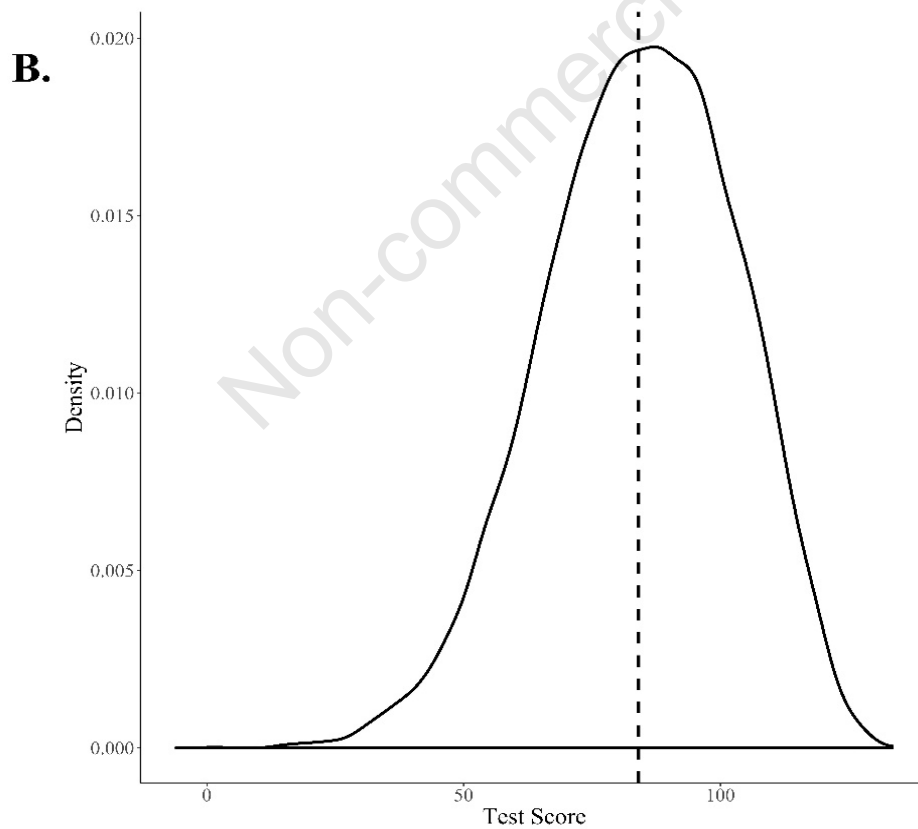
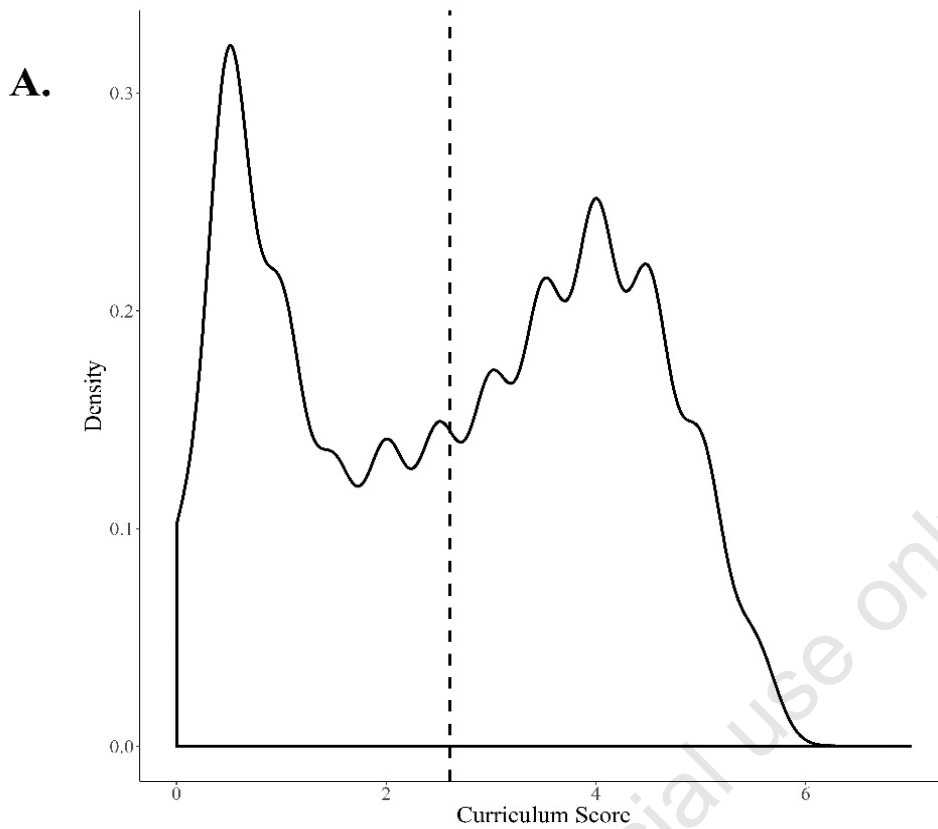


Figure S1. Density Plots. A. represents the density curve, at the national level, for Curriculum scores. B. represents the density curve, at the national level, for Test scores.

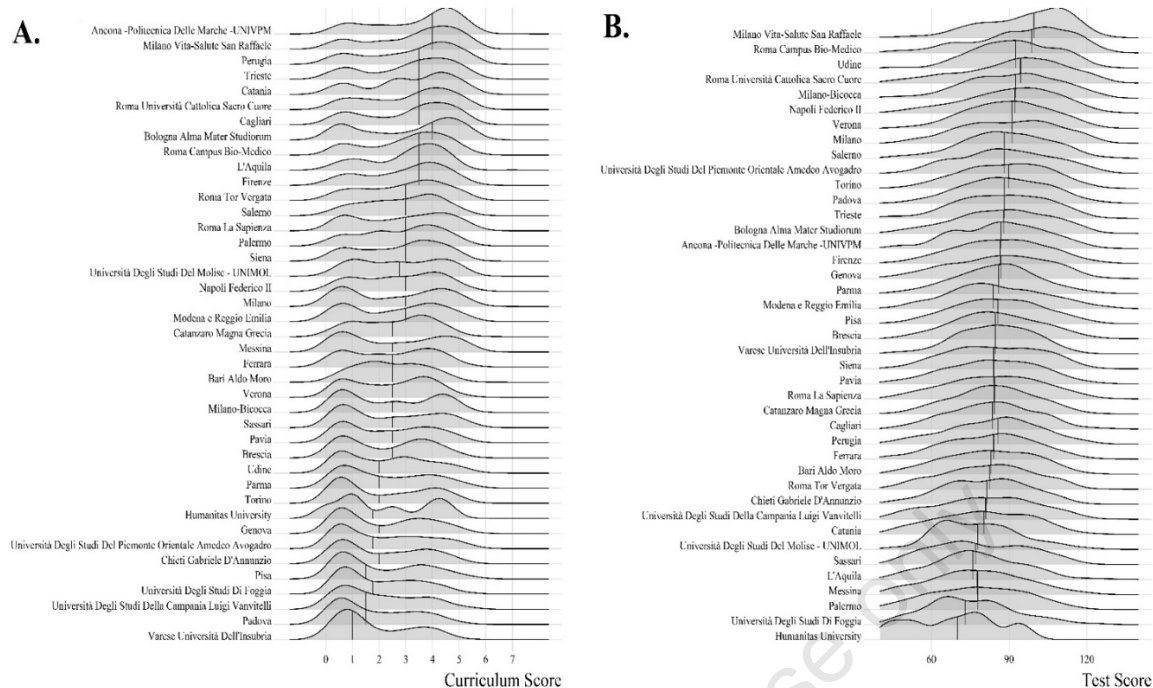


Figure S2. Density Plots – by University. A. represents the density curve, calculated for each University, for Curriculum scores, in descending order of mean values. B. represents the density curve, calculated for each University, for Test scores, in descending order of mean values.

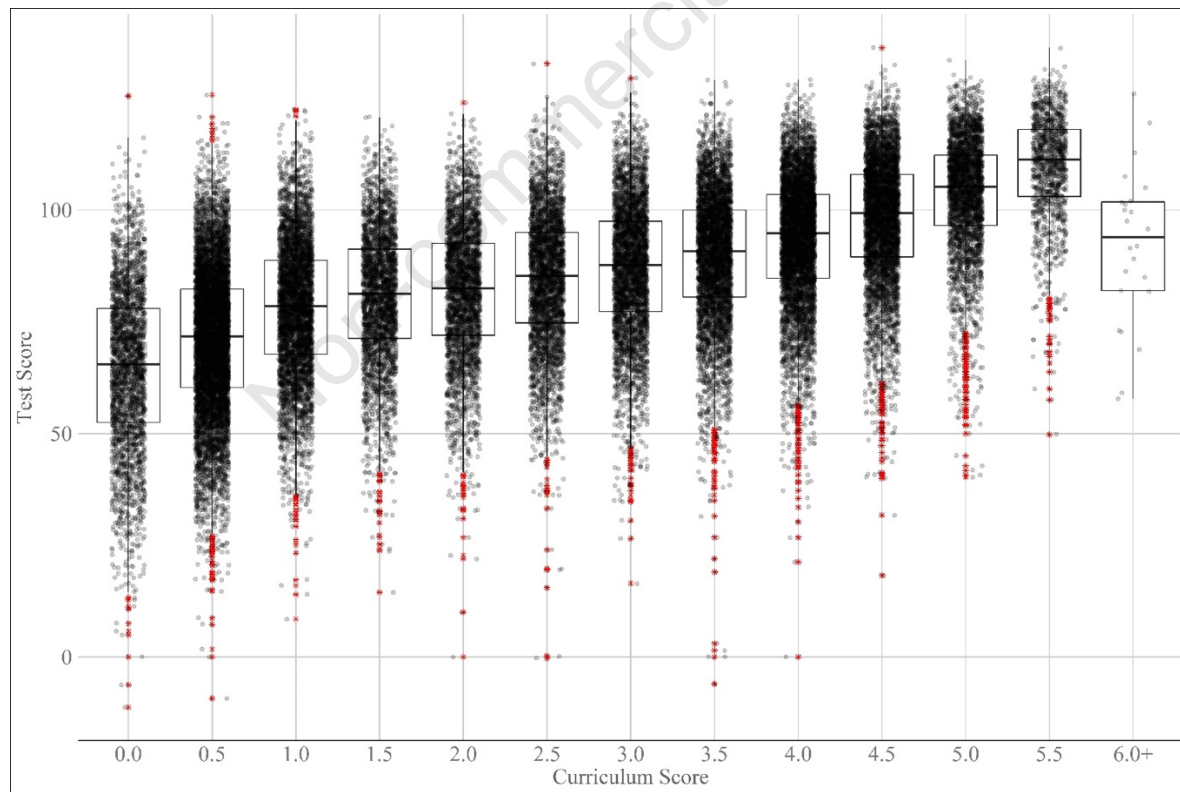


Figure S3. Correlations between Curriculum and Test scores. Boxplots represent the overall distribution for each Curriculum score class (from 0 to ≥ 6 , by 0.5). Individual variables were plotted as a jitter plot and outliers marked by the red color and a star shape.

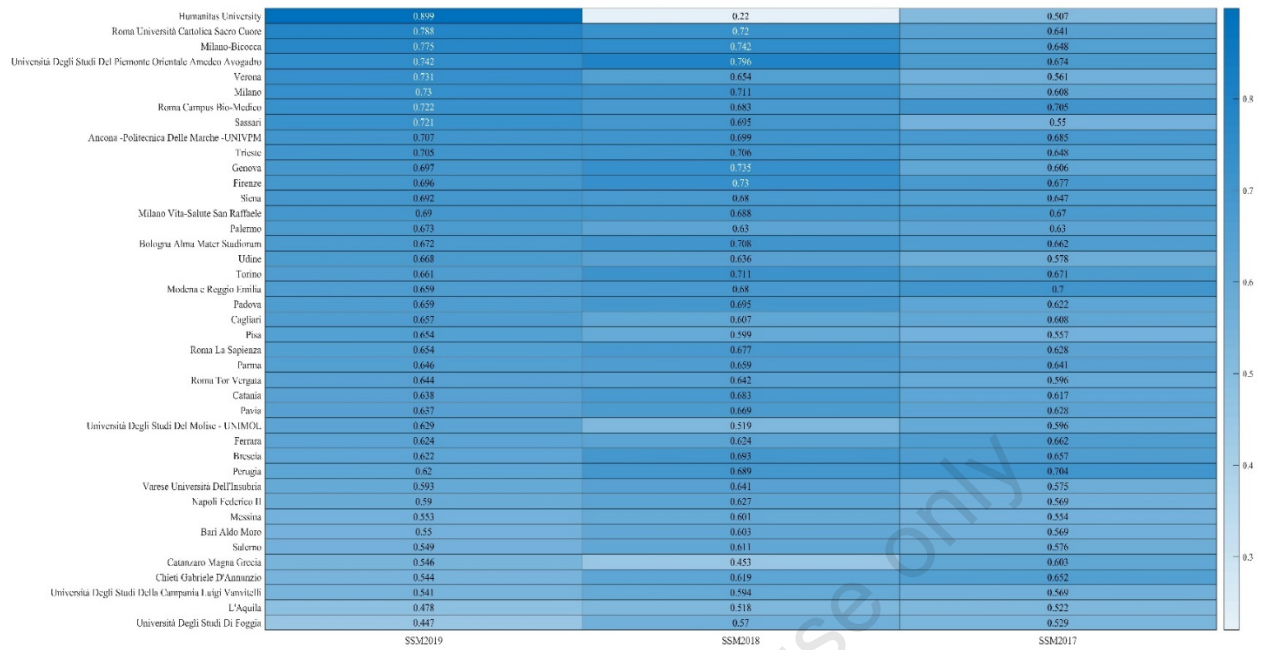


Figure S4. Heatmap of Spearman's rho coefficients, calculated between each University and scaled for each year (2019,2018,2017). On the left, a dendrogram by average linkage clustering and a color bar legend. On the right, the name of the individual University.

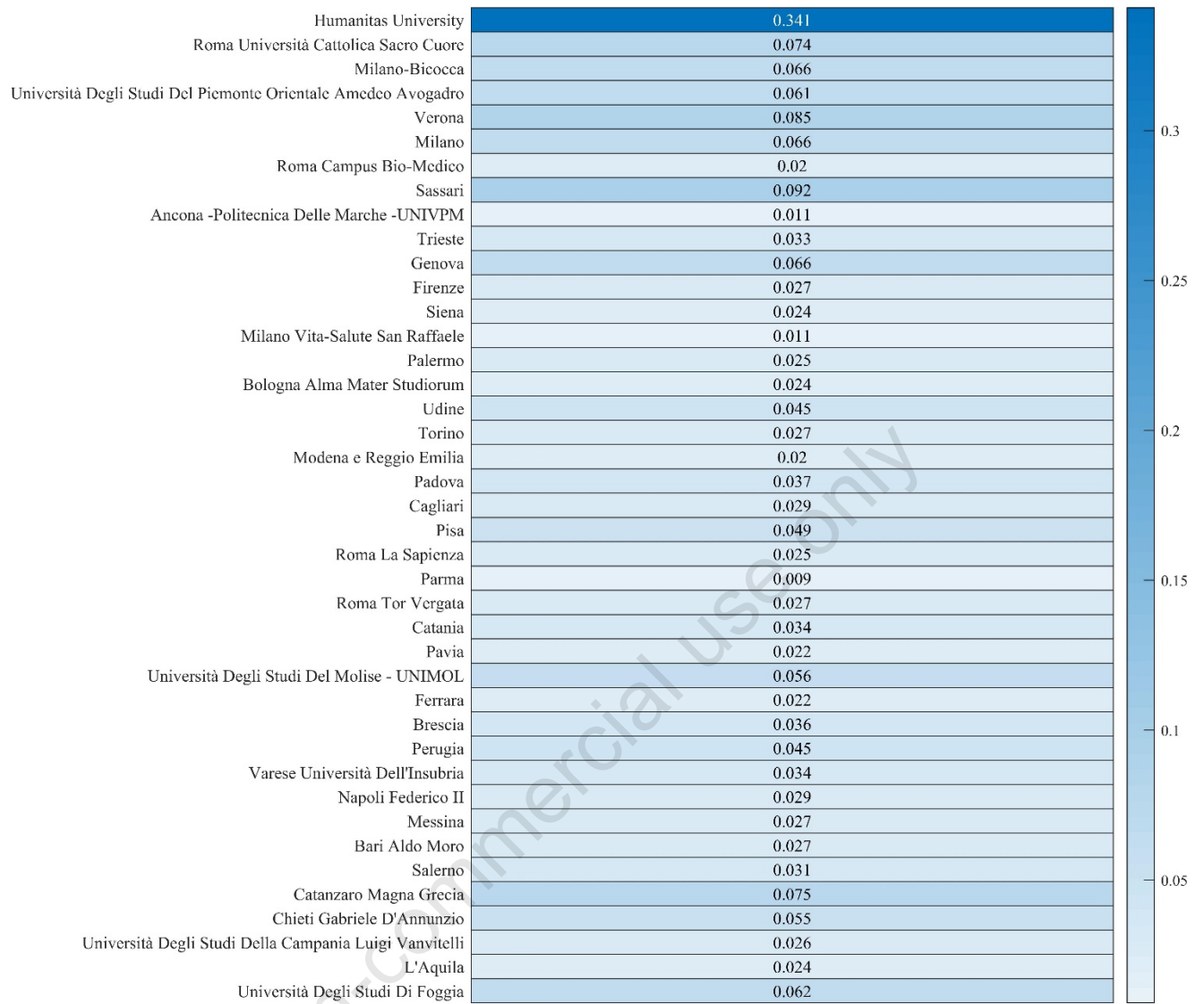


Figure S5. Heatmap of standard deviations of rho coefficients between SSM 2019, 2018 and 2017. On the right, a legend color bar. On the left, the name of the individual University.

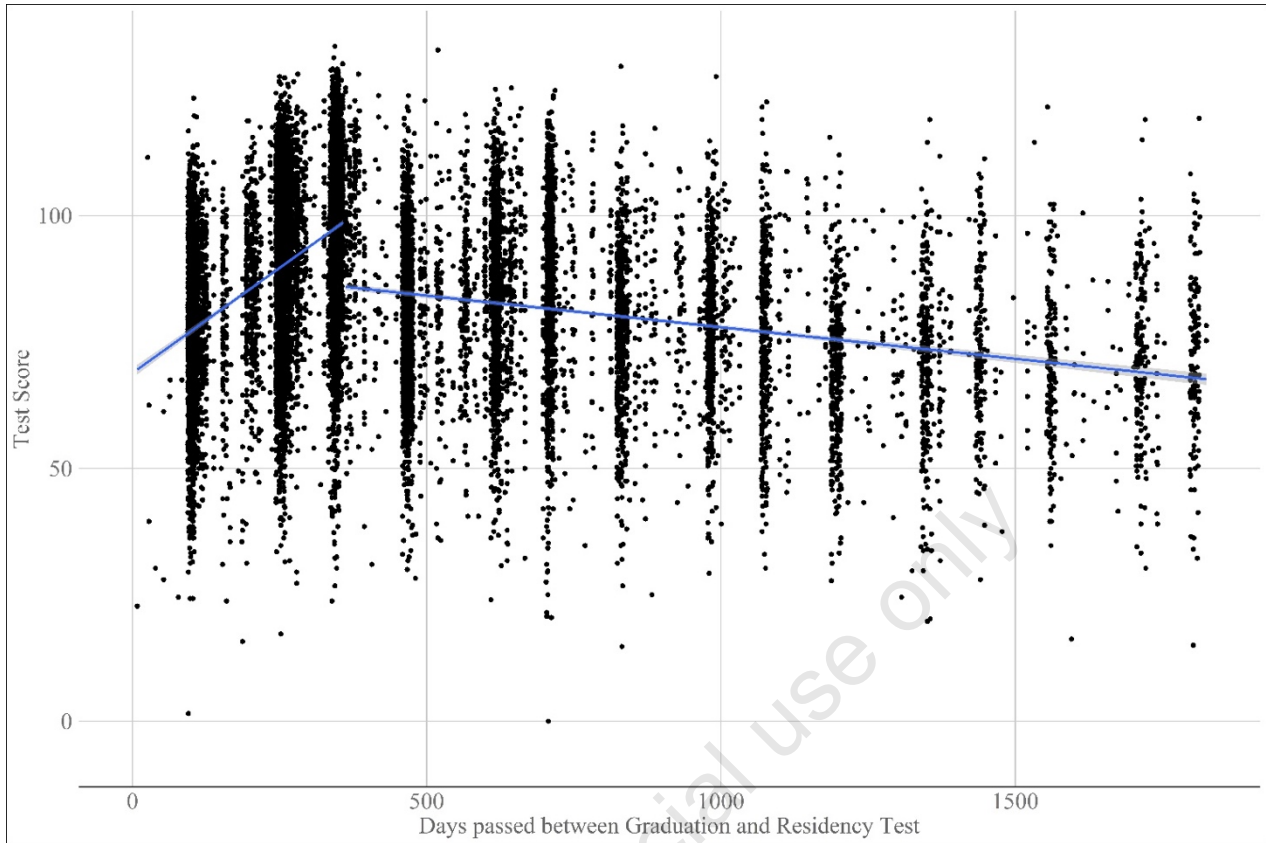


Figure S6. Correlation between the number of days passed since graduation and the Test score (SSM2019). Sample of graduated students from less than 5 years before the Residency Test. Two separate linear regressions were applied, one for students graduated from less than a year before the test and one for the rest.