PHYSICAL ACTIVITY ENVIRONMENT AND PERFEC/TENACI

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Today's Date

DOCUMENTATION

VARIABLES DE AMBIENTE PARA ACTIVIDAD FISICA

El sufijo aaf_ en todas las variabe indica Ambiente (para) Actividad Fisica.

• aaf_

OBSERVED VARIABLES

Nombre d Variable	Definicion	Valores
aaf_t_pe_class	t Tiempo en clase de educacion fisica	Minutos por semana
aaf_t_recess	t Tiempo de recreo	Minutos por semana
aaf_population_size	Tamannho de la poblacion total de la escuela	1 - 4 = chica, mediana, grande, muy gr
aaf_s_size	s Tamannho d Espacio para actividad fisica	0 - 4 = no_hay, chico, mediano, grande, muy gr
aaf_s_avail	s Espacio esta disponible o no	0, 1
aaf_s_used	s Espacio se usa o no	0, 1
aaf_s_shape	s Forma del espacio	rectang, triang, irregular, other

COMPUTED VARIABLES

Computed Variable	Definition	Formula
aaf_t_sum_total	total aggregated class+recess time	t_sum = t_class + t_recess
aaf_ratio_s_pop	space-size population-size ratio	ratio_sp = s_size / pop_size
aaf_indica_rec_t_s_p	time_space/population Indicator: Product of recess-time times the space/population ratio	indica_tsp = t_recesss * ratio_sp

Computed Variable	Definition	Formula
aaf_indica_sum_t_s_p	total time_space/population Indicator: Product of aggregated time (class+recess) times the space/population ratio	indica_sum_tsp = t_sum * ratio_sp

ANALYSES.

LINEAR REGRESSSION ASSOCIATION ANALYSES.

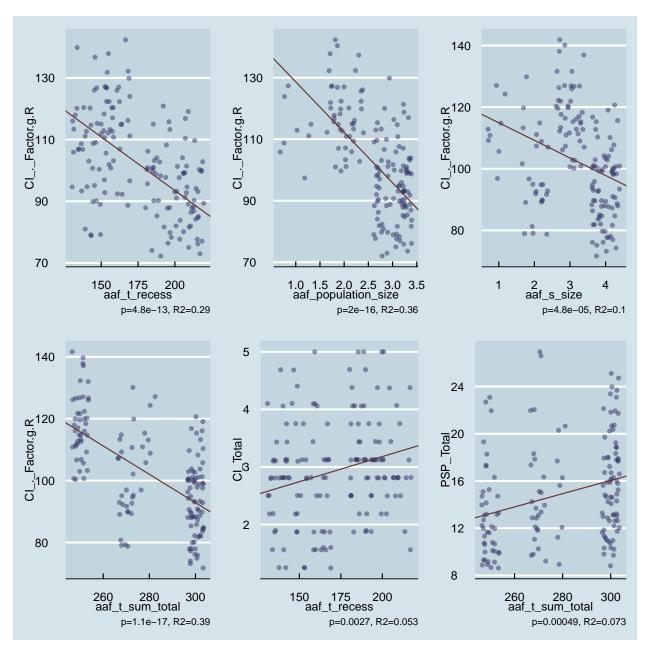
PHYSICAL ACTIVITY ENVIROMENT VS IQ/FROST/OROS VARIABLES.

Six significan associations were found. The followind is the list. - The strongest association (r>4) was found between iq and physical actriviti aggregated time. - Of particular interest: 1. Association between POO and aggregated time was found.

ACTIVITY VARIABLE REGRESSION ANALYUSES

res_activity_corr <- regression_significant_main(oactivity_df, joint_nums, varnames_activity, significant_main(oactivity_df, joint_nums, oactivity, significant_main(oactivity_df, joint_nums, oactivity, significant_main(oactivity_df, joint_nums, oactivity, significant_main(oactivity_df, joint_nums, oactivity, oacti

```
## [1] "CI_._Factor.g.R aaf_t_recess"
## [1] 4.8e-13
## [1] 0.29
## [1] "CI_._Factor.g.R aaf_population_size"
## [1] 2e-16
## [1] 0.36
## [1] "CI_._Factor.g.R aaf_s_size"
## [1] 4.8e-05
## [1] 0.1
## [1] "CI_._Factor.g.R aaf_t_sum_total"
## [1] 1.1e-17
## [1] 0.39
## [1] "CI_Total aaf_t_recess"
## [1] 0.0027
## [1] 0.053
## [1] "PSP_Total aaf_t_sum_total"
## [1] 0.00049
## [1] 0.073
## [1] "NUMBER OF SIGNIFICANT ANALYSES:"
## [1] 6
```



```
## [1] "NUMBER OF GRAPHICS IN GRID:"
```

[1] 6

```
## SHOW THE CORRELATIONS GRID
res_activity_corr[['grid']]
```

DIFFERENCES BETWEEN GROUPS ANALYSES.

By using the physical activity as groupping variables:

- 1. 39 significant differences were found.
- 2. Most of them of little interest.
- 3. However, the associtiaion between iq and PSP reported above was replicated.

ACTIVITY SAME ANALYSIS AS ABOVE BUT THE ACTIVITIES ARE TAKEN AS CATEFORIES FOR DIFFERENCE ANALYSES.
res_activity_diff <- regression_significant_main(oactivity_factored_df, joint_nums, varnames_activity,

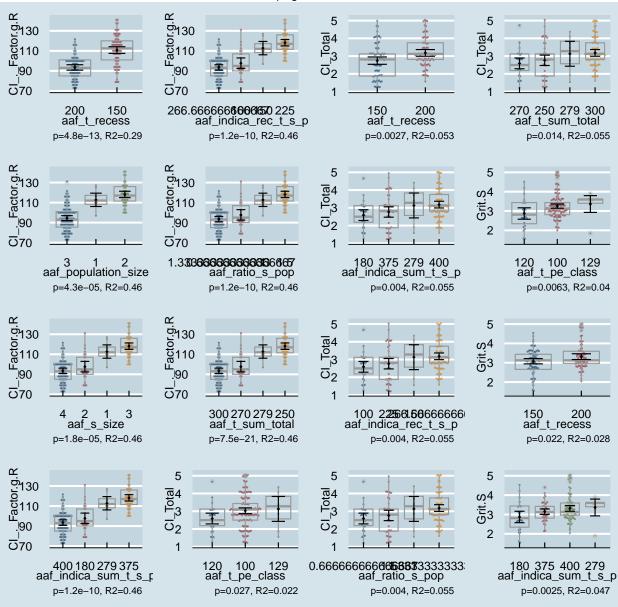
```
## [1] "CI_._Factor.g.R aaf_t_recess"
## [1] 4.8e-13
## [1] 0.29
## [1] "CI_._Factor.g.R aaf_population_size"
## [1] 4.3e-05
## [1] 0.46
## [1] "CI . Factor.g.R aaf s size"
## [1] 1.8e-05
## [1] 0.46
## [1] "CI_._Factor.g.R aaf_indica_sum_t_s_p"
## [1] 1.2e-10
## [1] 0.46
## [1] "CI_._Factor.g.R aaf_indica_rec_t_s_p"
## [1] 1.2e-10
## [1] 0.46
## [1] "CI_._Factor.g.R aaf_ratio_s_pop"
## [1] 1.2e-10
## [1] 0.46
## [1] "CI_._Factor.g.R aaf_t_sum_total"
## [1] 7.5e-21
## [1] 0.46
## [1] "CI_Total aaf_t_pe_class"
## [1] 0.027
## [1] 0.022
## [1] "CI_Total aaf_t_recess"
## [1] 0.0027
## [1] 0.053
## [1] "CI_Total aaf_indica_sum_t_s_p"
## [1] 0.004
## [1] 0.055
## [1] "CI_Total aaf_indica_rec_t_s_p"
## [1] 0.004
## [1] 0.055
## [1] "CI_Total aaf_ratio_s_pop"
## [1] 0.004
## [1] 0.055
## [1] "CI_Total aaf_t_sum_total"
## [1] 0.014
## [1] 0.055
## [1] "Grit.S aaf_t_pe_class"
## [1] 0.0063
## [1] 0.04
## [1] "Grit.S aaf_t_recess"
## [1] 0.022
## [1] 0.028
```

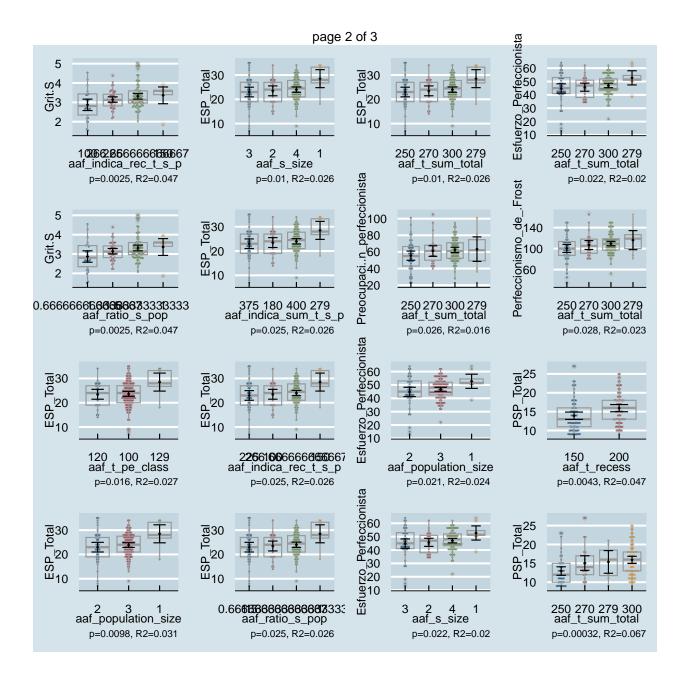
```
## [1] "Grit.S aaf_indica_sum_t_s_p"
## [1] 0.0025
## [1] 0.047
## [1] "Grit.S aaf_indica_rec_t_s_p"
## [1] 0.0025
## [1] 0.047
## [1] "Grit.S aaf_ratio_s_pop"
## [1] 0.0025
## [1] 0.047
## [1] "ESP_Total aaf_t_pe_class"
## [1] 0.016
## [1] 0.027
## [1] "ESP_Total aaf_population_size"
## [1] 0.0098
## [1] 0.031
## [1] "ESP_Total aaf_s_size"
## [1] 0.01
## [1] 0.026
## [1] "ESP_Total aaf_indica_sum_t_s_p"
## [1] 0.025
## [1] 0.026
## [1] "ESP_Total aaf_indica_rec_t_s_p"
## [1] 0.025
## [1] 0.026
## [1] "ESP_Total aaf_ratio_s_pop"
## [1] 0.025
## [1] 0.026
## [1] "ESP_Total aaf_t_sum_total"
## [1] 0.01
## [1] 0.026
## [1] "Preocupaci..n_perfeccionista aaf_t_sum_total"
## [1] 0.026
## [1] 0.016
## [1] "Esfuerzo_Perfeccionista aaf_population_size"
## [1] 0.021
## [1] 0.024
## [1] "Esfuerzo_Perfeccionista aaf_s_size"
## [1] 0.022
## [1] 0.02
## [1] "Esfuerzo_Perfeccionista aaf_t_sum_total"
## [1] 0.022
## [1] 0.02
## [1] "Perfeccionismo_de_.Frost aaf_t_sum_total"
## [1] 0.028
## [1] 0.023
## [1] "PSP_Total aaf_t_recess"
## [1] 0.0043
## [1] 0.047
## [1] "PSP_Total aaf_t_sum_total"
## [1] 0.00032
## [1] 0.067
## [1] "POO_Total aaf_t_pe_class"
## [1] 0.0097
```

[1] 0.051

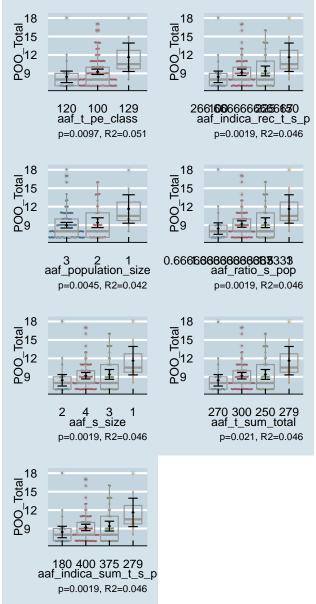
```
## [1] "POO_Total aaf_population_size"
## [1] 0.0045
## [1] 0.042
## [1] "POO_Total aaf_s_size"
## [1] 0.0019
## [1] 0.046
## [1] "POO_Total aaf_indica_sum_t_s_p"
## [1] 0.0019
## [1] 0.046
## [1] "POO_Total aaf_indica_rec_t_s_p"
## [1] 0.0019
## [1] 0.046
## [1] "POO_Total aaf_ratio_s_pop"
## [1] 0.0019
## [1] 0.046
## [1] "POO_Total aaf_t_sum_total"
## [1] 0.021
## [1] 0.046
## [1] "NUMBER OF SIGNIFICANT ANALYSES:"
## [1] 39
## [1] "NUMBER OF GRAPHICS IN GRID:"
## [1] 39
## SHOW THE GRID
res_activity_diff[['grid']]
```

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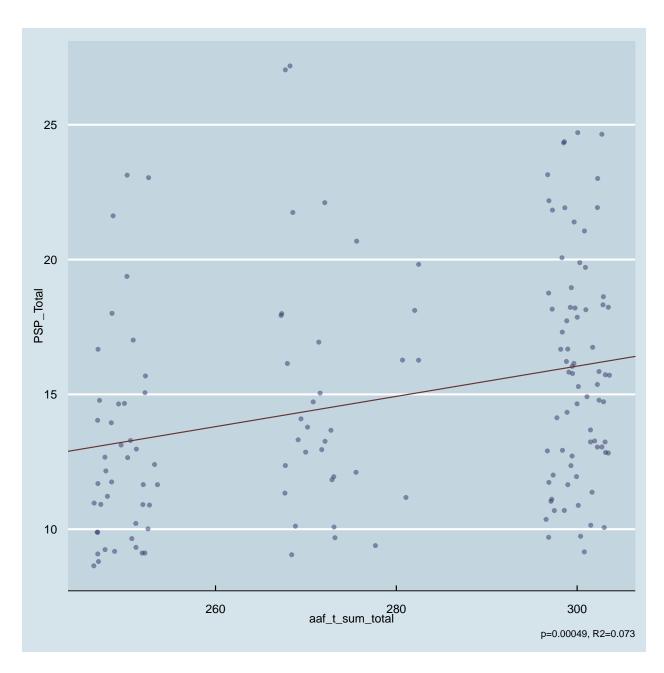






VARIABLE OF INTERES, PSP, GRAPHICS IN DETAIL. PSP TIME ASSOCIATION.

```
## SHOW THE PSP CORRELATION GRAPH
res_activity_corr[['plots']][['PSP_Total_~_aaf_t_sum_total']]
```



PSP TIME DIFFERENCES.

```
## SHOW THE PSP CORRELATION GRAPH
res_activity_diff[['plots']][['PSP_Total_~_aaf_t_sum_total']]
```

