Pobreza en tiempos de pandemia. Un abordaje desde la estructura de clases ocupacionales

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| Característica | N = 5.2391 |
| --- | --- |
| Pobreza | 1.525 (29,1%) |
| Ingreso total familiar | 78.084 (0, 800.000) |
| Sexo |  |
| Varón | 2.472 (47,2%) |
| Mujer | 2.767 (52,8%) |
| Grupo etario |  |
| 18-29 | 1.481 (28,3%) |
| 30-39 | 1.059 (20,2%) |
| 40-65 | 1.941 (37,0%) |
| >66 | 758 (14,5%) |
| Tamaño hogar | 2,68 (1,00, 12,00) |
| Región |  |
| Cuyo | 430 (8,2%) |
| GBA | 1.829 (34,9%) |
| NEA | 375 (7,2%) |
| NOA | 633 (12,1%) |
| Pampeana | 1.679 (32,0%) |
| Patagonia | 292 (5,6%) |
| Nivel educativo |  |
| Primario | 1.088 (20,8%) |
| Secundario | 2.385 (45,5%) |
| Superior | 1.766 (33,7%) |
| Clase social |  |
| Propietarios y directivos >5 | 57 (1,1%) |
| Propietarios y directivos <5 | 76 (1,5%) |
| Cuenta propia profesionales/calificados | 441 (8,8%) |
| Trabajadores no manuales > 5 | 1.061 (21,3%) |
| Trabajadores manuales > 5 | 559 (11,2%) |
| Trabajadores no manuales <5 | 382 (7,7%) |
| Trabajadores manuales <5 | 674 (13,5%) |
| Cuenta propia no calificados | 415 (8,3%) |
| Desocupados / inactivos | 410 (8,2%) |
| Inactivos jubilados | 908 (18,2%) |
| Formalidad | 2.894 (55,2%) |
| Desocupados 2020-2021 (período > 2 meses) | 1.321 (25,2%) |
| Trayectoria estado ocupacional (2015-2021 |  |
| Ocupados regulares | 3.295 (68,0%) |
| Ocupados recientes | 373 (7,7%) |
| Desoc/inac 2020 | 240 (5,0%) |
| Desoc/inac 2021 | 337 (7,0%) |
| Desoc/inac regulares | 599 (12,4%) |
| IFE | 1.226 (23,4%) |
| Potenciar trabajo | 45 (0,9%) |
| ATP | 213 (4,1%) |
| Teletrabajo | 772 (14,7%) |
| Cierre / despido / renuncia | 800 (15,3%) |
| Baja salarios / ingresos / ventas | 1.151 (22,0%) |
| Cambio actividad / rubro | 694 (13,3%) |
| 1n (%); Media (Rango) | |

| Característica | No pobre, N = 20.159.7121 | Pobre, N = 8.280.0671 | p-valor2 |
| --- | --- | --- | --- |
| Sexo |  |  | <0,001 |
| Varón | 10.406.935 (77,5%) | 3.014.331 (22,5%) |  |
| Mujer | 9.752.777 (64,9%) | 5.265.736 (35,1%) |  |
| Región |  |  | <0,001 |
| Cuyo | 1.599.243 (68,5%) | 736.864 (31,5%) |  |
| GBA | 6.617.378 (66,6%) | 3.313.505 (33,4%) |  |
| NEA | 1.307.428 (64,2%) | 728.940 (35,8%) |  |
| NOA | 2.369.404 (68,9%) | 1.068.060 (31,1%) |  |
| Pampeana | 7.048.238 (77,3%) | 2.064.998 (22,7%) |  |
| Patagonia | 1.218.022 (76,8%) | 367.700 (23,2%) |  |
| Clase social |  |  | <0,001 |
| Propietarios y directivos >5 | 310.874 (100,0%) | 0 (0,0%) |  |
| Propietarios y directivos <5 | 300.110 (72,7%) | 112.580 (27,3%) |  |
| Cuenta propia profesionales/calificados | 1.706.738 (71,4%) | 684.899 (28,6%) |  |
| Trabajadores no manuales > 5 | 5.038.508 (87,5%) | 718.720 (12,5%) |  |
| Trabajadores manuales > 5 | 1.934.414 (63,8%) | 1.098.010 (36,2%) |  |
| Trabajadores no manuales <5 | 1.480.099 (71,4%) | 592.739 (28,6%) |  |
| Trabajadores manuales <5 | 1.856.971 (50,7%) | 1.804.062 (49,3%) |  |
| Cuenta propia no calificados | 1.377.107 (61,1%) | 876.620 (38,9%) |  |
| Desocupados / inactivos | 1.114.445 (50,1%) | 1.110.541 (49,9%) |  |
| Inactivos jubilados | 4.279.770 (86,9%) | 646.900 (13,1%) |  |
| 1n (%) | | | |
| 2Prueba de chi cuadrado con corrección de segundo orden de Rao y Scott | | | |

## # A tibble: 6 × 4  
## tray\_estado\_f mean mediana primer\_t  
## <fct> <dbl> <dbl> <dbl>  
## 1 Ocupados regulares 39.3 37.5 18.4  
## 2 Ocupados recientes 33.3 26.5 19.1  
## 3 Desoc/inac 2020 59.1 63.5 18.9  
## 4 Desoc/inac 2021 56.9 61.5 18.5  
## 5 Desoc/inac regulares 68.1 73.5 18.3  
## 6 <NA> 32.7 25.5 NA

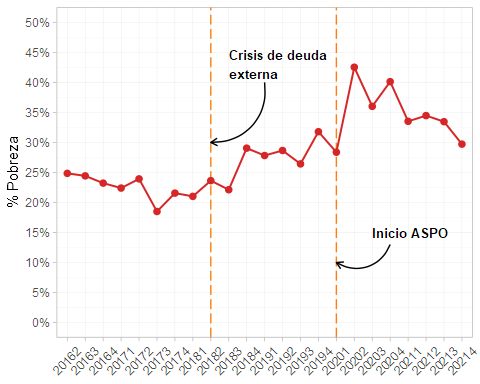
##   
## 1 2 3 4  
## Ocupados regulares 0.009400705 0.000000000 0.025851939 0.064336075  
## Ocupados recientes 0.080097087 0.000000000 0.138349515 0.269417476  
## Desoc/inac 2020 0.686915888 0.000000000 0.032710280 0.032710280  
## Desoc/inac 2021 0.419141914 0.003300330 0.056105611 0.099009901  
## Desoc/inac regulares 0.766292135 0.000000000 0.040449438 0.047191011  
## <NA> 0.121475054 0.002169197 0.375271150 0.268980477  
##   
## 5 666666 <NA>  
## Ocupados regulares 0.002350176 0.001175088 0.896886016  
## Ocupados recientes 0.016990291 0.012135922 0.483009709  
## Desoc/inac 2020 0.023364486 0.004672897 0.219626168  
## Desoc/inac 2021 0.079207921 0.039603960 0.303630363  
## Desoc/inac regulares 0.031460674 0.006741573 0.107865169  
## <NA> 0.049891540 0.054229935 0.127982646

## # A tibble: 13 × 3  
## # Groups: cobhe\_f [11]  
## cobhe\_f moda1 moda2  
## <fct> <chr> <dbl>  
## 1 Propietarios y directivos >5 "06001" 1345  
## 2 Propietarios y directivos >5 "06001" 1420  
## 3 Propietarios y directivos <5 "05002" 5221  
## 4 Cuenta propia profesionales/calificados "30113" 5221  
## 5 Trabajadores no manuales > 5 "10333" 4110  
## 6 Trabajadores manuales > 5 "56314" 9112  
## 7 Trabajadores no manuales <5 "30314" 5223  
## 8 Trabajadores manuales <5 "55314" 9111  
## 9 Cuenta propia no calificados "72113" 7112  
## 10 Desocupados / inactivos "" 9111  
## 11 Inactivos jubilados "55314" 9111  
## 12 <NA> "" 7112  
## 13 <NA> "" 8322

eph <- calculate\_poverty(base = eph, basket = canastas, print\_summary = TRUE)

## # A tibble: 23 × 4  
## # Groups: ANO4 [6]  
## ANO4 TRIMESTRE Tasa\_pobreza Tasa\_indigencia  
## <dbl> <dbl> <dbl> <dbl>  
## 1 2016 2 0.166 0.0330  
## 2 2016 3 0.164 0.0386  
## 3 2016 4 0.156 0.0322  
## 4 2017 1 0.151 0.0374  
## 5 2017 2 0.160 0.0384  
## 6 2017 3 0.130 0.0296  
## 7 2017 4 0.145 0.0285  
## 8 2018 1 0.142 0.0305  
## 9 2018 2 0.158 0.0271  
## 10 2018 3 0.147 0.0363  
## # … with 13 more rows

eph <- eph %>%   
 mutate(pobreza\_dic = case\_when(situacion %in% c("pobre", "indigente") ~ 1,  
 situacion %in% "no\_pobre" ~ 0))  
  
eph %>%  
 filter(CH06 >= 18) %>%   
 group\_by(ano\_trim) %>%   
 summarise(porcentaje = weighted.mean(pobreza\_dic, PONDIH, na.rm = T)) %>%   
 ggplot(mapping = aes(x = as.character(ano\_trim), y = porcentaje, group = 1)) +  
 geom\_vline(xintercept=c("20182", "20201"), linetype=5, color = "#ff7f0e") +  
 geom\_point(size = 2, color = "#d62728") +  
 geom\_line(size = .7, color = "#d62728") +  
 theme\_light() +  
 annotate(geom = "text", x = "20183", y = .43, label = "Crisis de deuda \nexterna", hjust = "left",  
 fontface="bold", size = 3.5) +  
 annotate(geom = "curve", x = "20191", y = .4, xend = "20182", yend = .3, curvature = -.5,  
 arrow = arrow(length = unit(2, "mm"))) +  
 annotate(geom = "text", x = "20203", y = .15, label = "Inicio ASPO", hjust = "left",  
 fontface="bold", size = 3.5) +  
 annotate(geom = "curve", x = "20204", y = .13, xend = "20201", yend = .1, curvature = -.5,  
 arrow = arrow(length = unit(2, "mm"))) +  
 labs(y = "% Pobreza") +  
 theme(legend.title = element\_text(size = 9, face = "bold"),  
 legend.text = element\_text(size = 9),  
 legend.key.height=unit(1, "cm"),  
 axis.title.x = element\_blank(),  
 axis.title.y = element\_text(size = 11),  
 axis.text.y = element\_text(size = 9),  
 axis.text.x = element\_text(angle = 45, vjust = 0.5, size = 9),  
 plot.caption = element\_text(size = 9, hjust = 1),  
 panel.grid = element\_line(size = .2),  
 strip.text = element\_text(face = "bold"),  
 legend.background = element\_blank()) +  
 scale\_y\_continuous(breaks = seq(0, .6, by = 0.05), limits = c(0, .5),   
 labels = scales::percent\_format(accuracy = 1L))



ggsave(filename = "graficos/pobreza.jpg", dpi = 300, type = "cairo", width = 8, height = 6)

## Warning: Using ragg device as default. Ignoring `type` and `antialias` arguments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Modelo 1 | Modelo 2 | Modelo 3 | Modelo 4 |
| (Intercept) | 1.00 (0.10) | 0.18 \*\*\* (0.19) | 0.07 \*\*\* (0.22) | 0.06 \*\*\* (0.22) |
| cobhe\_fPropietarios y directivos <5 | 0.38 \*\*\* (0.28) | 0.43 \*\* (0.33) | 0.51 \*\* (0.33) | 0.56 \* (0.34) |
| cobhe\_fCuenta propia profesionales/calificados | 0.40 \*\*\* (0.14) | 0.38 \*\*\* (0.18) | 0.39 \*\*\* (0.18) | 0.41 \*\*\* (0.18) |
| cobhe\_fTrabajadores no manuales > 5 | 0.14 \*\*\* (0.14) | 0.13 \*\*\* (0.17) | 0.21 \*\*\* (0.17) | 0.24 \*\*\* (0.18) |
| cobhe\_fTrabajadores manuales > 5 | 0.57 \*\*\* (0.13) | 0.36 \*\*\* (0.17) | 0.52 \*\*\* (0.17) | 0.51 \*\*\* (0.17) |
| cobhe\_fTrabajadores no manuales <5 | 0.40 \*\*\* (0.15) | 0.34 \*\*\* (0.19) | 0.41 \*\*\* (0.19) | 0.43 \*\*\* (0.19) |
| cobhe\_fTrabajadores manuales <5 | 0.97 (0.13) | 0.64 \*\*\* (0.15) | 0.62 \*\*\* (0.16) | 0.59 \*\*\* (0.16) |
| cobhe\_fCuenta propia no calificados | 0.64 \*\*\* (0.14) | 0.54 \*\*\* (0.18) | 0.46 \*\*\* (0.18) | 0.46 \*\*\* (0.18) |
| cobhe\_fInactivos jubilados | 0.15 \*\*\* (0.14) | 0.32 \*\*\* (0.22) | 0.45 \*\*\* (0.22) | 0.47 \*\*\* (0.22) |
| sexo\_fMujer |  | 1.90 \*\*\* (0.08) | 1.75 \*\*\* (0.09) | 1.65 \*\*\* (0.09) |
| edad\_grupo30-39 |  | 1.01 (0.11) | 1.14 (0.12) | 1.26 \* (0.12) |
| edad\_grupo40-65 |  | 0.95 (0.10) | 1.19 \* (0.10) | 1.38 \*\*\* (0.11) |
| edad\_grupo>66 |  | 0.42 \*\*\* (0.23) | 0.52 \*\*\* (0.23) | 0.64 \* (0.23) |
| region\_eph\_fCuyo |  | 1.25 (0.15) | 1.24 (0.16) | 1.22 (0.16) |
| region\_eph\_fNEA |  | 1.18 (0.16) | 1.19 (0.16) | 1.16 (0.16) |
| region\_eph\_fNOA |  | 0.91 (0.13) | 0.86 (0.13) | 0.86 (0.13) |
| region\_eph\_fPampeana |  | 0.73 \*\*\* (0.10) | 0.74 \*\*\* (0.10) | 0.76 \*\*\* (0.10) |
| region\_eph\_fPatagonia |  | 0.73 (0.20) | 0.80 (0.20) | 0.86 (0.20) |
| nivel\_ed\_fSecundario |  | 0.47 \*\*\* (0.10) | 0.52 \*\*\* (0.10) | 0.53 \*\*\* (0.11) |
| nivel\_ed\_fSuperior |  | 0.20 \*\*\* (0.13) | 0.25 \*\*\* (0.13) | 0.27 \*\*\* (0.13) |
| MIEMBROS |  | 2.30 \*\*\* (0.03) | 2.33 \*\*\* (0.03) | 2.34 \*\*\* (0.03) |
| formalInformal |  |  | 2.16 \*\*\* (0.10) | 1.92 \*\*\* (0.10) |
| desocup2Desocupado 20-21 |  |  | 1.54 \*\*\* (0.09) | 1.73 \*\*\* (0.12) |
| ife |  |  |  | 1.87 \*\*\* (0.10) |
| potenciar |  |  |  | 2.93 \*\*\* (0.40) |
| atp |  |  |  | 0.74 (0.23) |
| teletrabajo |  |  |  | 0.76 \* (0.16) |
| covid\_cierre\_despido |  |  |  | 0.86 (0.13) |
| covid\_baja\_ingresos |  |  |  | 0.87 (0.11) |
| covid\_cambio |  |  |  | 0.82 (0.14) |
| N | 4871 | 4871 | 4871 | 4871 |
| AIC | 5077.43 | 3743.02 | 3666.17 | 3618.60 |
| BIC | 5135.85 | 3879.33 | 3815.46 | 3813.33 |
| Pseudo R2 | 0.14 | 0.47 | 0.48 | 0.49 |
| \*\*\* p < 0.01; \*\* p < 0.05; \* p < 0.1. | | | | |

Observations

4871

Dependent variable

pobreza

Type

Generalized linear model

Family

binomial

Link

logit

χ²(29)

2072.69

Pseudo-R² (Cragg-Uhler)

0.49

Pseudo-R² (McFadden)

0.36

AIC

3618.60

BIC

3813.33

Est.

S.E.

z val.

p

VIF

(Intercept)

-2.80

0.22

-12.61

0.00

NA

cobhe\_fPropietarios y directivos <5

-0.58

0.34

-1.72

0.09

5.53

cobhe\_fCuenta propia profesionales/calificados

-0.90

0.18

-4.88

0.00

5.53

cobhe\_fTrabajadores no manuales > 5

-1.44

0.18

-8.02

0.00

5.53

cobhe\_fTrabajadores manuales > 5

-0.68

0.17

-3.89

0.00

5.53

cobhe\_fTrabajadores no manuales <5

-0.85

0.19

-4.44

0.00

5.53

cobhe\_fTrabajadores manuales <5

-0.52

0.16

-3.26

0.00

5.53

cobhe\_fCuenta propia no calificados

-0.77

0.18

-4.18

0.00

5.53

cobhe\_fInactivos jubilados

-0.75

0.22

-3.33

0.00

5.53

sexo\_fMujer

0.50

0.09

5.81

0.00

1.10

edad\_grupo30-39

0.23

0.12

1.92

0.06

2.93

edad\_grupo40-65

0.32

0.11

2.97

0.00

2.93

edad\_grupo>66

-0.45

0.23

-1.93

0.05

2.93

region\_eph\_fCuyo

0.20

0.16

1.27

0.21

1.12

region\_eph\_fNEA

0.14

0.16

0.89

0.37

1.12

region\_eph\_fNOA

-0.16

0.13

-1.17

0.24

1.12

region\_eph\_fPampeana

-0.28

0.10

-2.73

0.01

1.12

region\_eph\_fPatagonia

-0.15

0.20

-0.73

0.46

1.12

nivel\_ed\_fSecundario

-0.63

0.11

-6.00

0.00

1.36

nivel\_ed\_fSuperior

-1.31

0.13

-10.15

0.00

1.36

MIEMBROS

0.85

0.03

25.31

0.00

1.18

formalInformal

0.65

0.10

6.58

0.00

1.47

desocup2Desocupado 20-21

0.55

0.12

4.69

0.00

1.78

ife

0.63

0.10

6.38

0.00

1.21

potenciar

1.07

0.40

2.71

0.01

1.03

atp

-0.30

0.23

-1.28

0.20

1.08

teletrabajo

-0.27

0.16

-1.71

0.09

1.26

covid\_cierre\_despido

-0.16

0.13

-1.17

0.24

1.63

covid\_baja\_ingresos

-0.14

0.11

-1.24

0.21

1.43

covid\_cambio

-0.20

0.14

-1.43

0.15

1.20

Standard errors: MLE

## McFaddenAdj   
## 0.0867076

## McFaddenAdj   
## 0.3267321

## McFaddenAdj   
## 0.3405546

## McFaddenAdj   
## 0.3491108

