03-analisis-v3

# Estimaciones con grupo etario mov estudiantil 2006

Para esta estimación, se modifican los grupos etarios dando énfasis a que, además de los jóvenes, las personas mayores de 46 años participaron en el plebiscito del 88.

## Participación en marchas

#if (!require("pacman")) install.packages("pacman") # instalar pacman  
 # cargar librerias  
pacman::p\_load(dplyr, # Manipulacion de datos  
 knitr,  
 kableExtra,  
 summarytools,  
 lme4,  
 texreg,  
 interactions,  
 ggplot2  
 )  
load(file = here::here("input/data-proc/df\_study1\_long\_t7.RData"))  
  
# generate analytical sample  
df\_study1 <-   
 df\_study1\_long\_t7 %>%  
 select(idencuesta,ola,part\_marchas, edad, sexo, pos\_id, educ, universitaria, ponderador\_long\_total) %>%   
 na.omit() %>%   
 mutate(ola\_num=as.numeric(ola),  
 ola=as.factor(ola),  
 edad = case\_when(edad <=23~"Entre 18 y 23",  
 edad >23 & edad <=28 ~ "Entre 24 y 28",  
 edad >28 & edad <=45 ~ "Entre 29 y 45",  
 edad > 45 ~ "Más de 45"))   
df\_study1$edad <- factor(df\_study1$edad, levels = c("Más de 45", "Entre 29 y 45", "Entre 24 y 28", "Entre 18 y 23"))  
df\_study1$sexo <- factor(df\_study1$sexo, levels = c(1, 2), labels = c("Hombre", "Mujer"))  
  
sjmisc::frq(df\_study1$edad)

x <categorical>   
# total N=11028 valid N=11028 mean=1.62 sd=0.85  
  
Value | N | Raw % | Valid % | Cum. %  
-----------------------------------------------  
Más de 45 | 6243 | 56.61 | 56.61 | 56.61  
Entre 29 y 45 | 3378 | 30.63 | 30.63 | 87.24  
Entre 24 y 28 | 761 | 6.90 | 6.90 | 94.14  
Entre 18 y 23 | 646 | 5.86 | 5.86 | 100.00  
<NA> | 0 | 0.00 | <NA> | <NA>

# Hipotesis  
h1 <- "ola"  
h2 <- "ola+edad"  
h3 <- "ola+edad+sexo"  
h4 <- "ola+edad+sexo+educ"  
h5 <- "ola+edad+sexo+educ+pos\_id"  
h6 <- "ola\*edad+sexo+educ+pos\_id"  
h7 <- "ola\*sexo+edad+sexo+educ+pos\_id"  
h8 <- "ola\*educ+edad+sexo+educ+pos\_id"  
h9 <- "ola\*pos\_id+edad+sexo+educ+pos\_id"  
h10 <- "ola\*pos\_id\*edad+sexo+educ+pos\_id"  
h11 <- "ola\*educ\*edad+sexo+educ+pos\_id"  
h12 <- "ola\*sexo\*edad+sexo+educ+pos\_id"  
  
marchar.null <- lmer(formula(paste0("part\_marchas~","1 + (1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar1 <- lmer(formula(paste0("part\_marchas~",h1,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar2 <- lmer(formula(paste0("part\_marchas~",h2,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar3 <- lmer(formula(paste0("part\_marchas~",h3,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar4 <- lmer(formula(paste0("part\_marchas~",h4,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar5 <- lmer(formula(paste0("part\_marchas~",h5,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar6 <- lmer(formula(paste0("part\_marchas~",h6,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar7 <- lmer(formula(paste0("part\_marchas~",h7,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar8 <- lmer(formula(paste0("part\_marchas~",h8,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar9 <- lmer(formula(paste0("part\_marchas~",h9,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar10 <- lmer(formula(paste0("part\_marchas~",h10,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar11 <- lmer(formula(paste0("part\_marchas~",h11,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar12 <- lmer(formula(paste0("part\_marchas~",h12,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)

texreg::knitreg(list(marchar1, marchar2, marchar3, marchar4, marchar5, marchar6, marchar7, marchar8, marchar9, marchar10, marchar11),  
 custom.note = "\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05")

Statistical models

Model 1

Model 2

Model 3

Model 4

Model 5

Model 6

Model 7

Model 8

Model 9

Model 10

Model 11

(Intercept)

1.35\*\*\*

1.23\*\*\*

1.27\*\*\*

1.18\*\*\*

1.39\*\*\*

1.43\*\*\*

1.41\*\*\*

1.32\*\*\*

1.42\*\*\*

1.44\*\*\*

1.37\*\*\*

(0.02)

(0.03)

(0.03)

(0.03)

(0.04)

(0.04)

(0.04)

(0.04)

(0.05)

(0.06)

(0.05)

ola2

-0.10\*\*\*

-0.10\*\*\*

-0.10\*\*\*

-0.10\*\*\*

-0.10\*\*\*

-0.09\*\*

-0.11\*\*\*

-0.04

-0.05

-0.13\*

-0.03

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.03)

(0.03)

(0.04)

(0.06)

(0.04)

ola3

-0.15\*\*\*

-0.16\*\*\*

-0.16\*\*\*

-0.16\*\*\*

-0.16\*\*\*

-0.13\*\*\*

-0.27\*\*\*

-0.03

-0.17\*\*\*

-0.20\*\*

-0.04

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.03)

(0.03)

(0.04)

(0.06)

(0.04)

ola4

0.41\*\*\*

0.40\*\*\*

0.40\*\*\*

0.40\*\*\*

0.40\*\*\*

0.08\*

0.45\*\*\*

0.33\*\*\*

0.40\*\*\*

0.19\*\*

0.09\*

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.03)

(0.03)

(0.04)

(0.06)

(0.04)

ola5

-0.14\*\*\*

-0.15\*\*\*

-0.15\*\*\*

-0.15\*\*\*

-0.15\*\*\*

-0.20\*\*\*

-0.18\*\*\*

-0.00

-0.23\*\*\*

-0.34\*\*\*

-0.06

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.03)

(0.03)

(0.05)

(0.07)

(0.04)

ola6

-0.12\*\*\*

-0.13\*\*\*

-0.13\*\*\*

-0.13\*\*\*

-0.13\*\*\*

-0.15\*\*\*

-0.13\*\*\*

-0.07\*

-0.19\*\*\*

-0.21\*\*

-0.05

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.03)

(0.03)

(0.04)

(0.07)

(0.04)

ola7

-0.23\*\*\*

-0.24\*\*\*

-0.24\*\*\*

-0.24\*\*\*

-0.24\*\*\*

-0.18\*\*\*

-0.31\*\*\*

-0.06\*

-0.34\*\*\*

-0.30\*\*\*

-0.05

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.03)

(0.03)

(0.04)

(0.06)

(0.04)

edadEntre 29 y 45

0.18\*\*\*

0.18\*\*\*

0.12\*\*\*

0.13\*\*\*

0.01

0.13\*\*\*

0.12\*\*\*

0.13\*\*\*

-0.04

0.05

(0.04)

(0.04)

(0.03)

(0.03)

(0.05)

(0.03)

(0.03)

(0.03)

(0.09)

(0.06)

edadEntre 24 y 28

0.34\*\*\*

0.34\*\*\*

0.23\*\*\*

0.23\*\*\*

0.17\*

0.23\*\*\*

0.23\*\*\*

0.24\*\*\*

0.36\*\*

0.02

(0.06)

(0.06)

(0.06)

(0.05)

(0.07)

(0.05)

(0.05)

(0.05)

(0.14)

(0.10)

edadEntre 18 y 23

0.49\*\*\*

0.49\*\*\*

0.40\*\*\*

0.40\*\*\*

0.39\*\*\*

0.41\*\*\*

0.41\*\*\*

0.40\*\*\*

0.60\*\*\*

0.15

(0.06)

(0.06)

(0.06)

(0.06)

(0.07)

(0.06)

(0.06)

(0.06)

(0.15)

(0.11)

sexoMujer

-0.06

-0.04

-0.03

-0.03

-0.07

-0.03

-0.02

-0.03

-0.03

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.03)

(0.03)

(0.03)

(0.03)

educTécnica

0.22\*\*\*

0.22\*\*\*

0.22\*\*\*

0.22\*\*\*

0.40\*\*\*

0.22\*\*\*

0.21\*\*\*

0.36\*\*\*

(0.04)

(0.04)

(0.04)

(0.04)

(0.06)

(0.04)

(0.04)

(0.08)

educUniversitaria

0.36\*\*\*

0.36\*\*\*

0.37\*\*\*

0.36\*\*\*

0.51\*\*\*

0.37\*\*\*

0.37\*\*\*

0.60\*\*\*

(0.04)

(0.04)

(0.04)

(0.04)

(0.05)

(0.04)

(0.04)

(0.08)

pos\_idCentro

-0.28\*\*\*

-0.28\*\*\*

-0.28\*\*\*

-0.28\*\*\*

-0.32\*\*\*

-0.29\*\*\*

-0.27\*\*\*

(0.04)

(0.04)

(0.04)

(0.04)

(0.06)

(0.08)

(0.04)

pos\_idDerecha

-0.41\*\*\*

-0.42\*\*\*

-0.41\*\*\*

-0.41\*\*\*

-0.42\*\*\*

-0.43\*\*\*

-0.40\*\*\*

(0.05)

(0.05)

(0.05)

(0.05)

(0.07)

(0.09)

(0.05)

pos\_idNo se identifica

-0.25\*\*\*

-0.25\*\*\*

-0.25\*\*\*

-0.25\*\*\*

-0.30\*\*\*

-0.27\*\*\*

-0.24\*\*\*

(0.04)

(0.04)

(0.04)

(0.04)

(0.05)

(0.07)

(0.04)

ola2:edadEntre 29 y 45

0.09

0.30\*\*

-0.02

(0.05)

(0.09)

(0.06)

ola3:edadEntre 29 y 45

0.05

0.21\*

-0.02

(0.05)

(0.09)

(0.06)

ola4:edadEntre 29 y 45

0.30\*\*\*

0.46\*\*\*

0.20\*\*

(0.05)

(0.10)

(0.06)

ola5:edadEntre 29 y 45

0.16\*\*

0.36\*\*\*

0.04

(0.05)

(0.10)

(0.07)

ola6:edadEntre 29 y 45

0.12\*

0.25\*

0.02

(0.05)

(0.10)

(0.07)

ola7:edadEntre 29 y 45

0.09

0.25\*\*

-0.05

(0.05)

(0.10)

(0.06)

ola2:edadEntre 24 y 28

0.03

-0.01

0.06

(0.07)

(0.13)

(0.10)

ola3:edadEntre 24 y 28

-0.15\*

-0.25

0.09

(0.07)

(0.13)

(0.10)

ola4:edadEntre 24 y 28

0.61\*\*\*

0.07

0.41\*\*\*

(0.07)

(0.13)

(0.10)

ola5:edadEntre 24 y 28

0.27\*\*\*

-0.06

0.18

(0.07)

(0.13)

(0.11)

ola6:edadEntre 24 y 28

-0.02

-0.24

0.14

(0.07)

(0.13)

(0.11)

ola7:edadEntre 24 y 28

-0.24\*\*\*

-0.65\*\*\*

0.06

(0.07)

(0.13)

(0.10)

ola2:edadEntre 18 y 23

-0.30\*\*\*

-0.27

0.01

(0.07)

(0.14)

(0.11)

ola3:edadEntre 18 y 23

-0.15\*

-0.11

0.19

(0.07)

(0.15)

(0.11)

ola4:edadEntre 18 y 23

1.06\*\*\*

0.44\*\*

1.26\*\*\*

(0.07)

(0.15)

(0.10)

ola5:edadEntre 18 y 23

-0.14\*

-0.07

0.37\*\*\*

(0.07)

(0.15)

(0.10)

ola6:edadEntre 18 y 23

-0.07

-0.28\*

-0.05

(0.07)

(0.14)

(0.10)

ola7:edadEntre 18 y 23

-0.23\*\*\*

-0.32\*

0.19\*

(0.06)

(0.13)

(0.09)

ola2:sexoMujer

0.02

(0.04)

ola3:sexoMujer

0.21\*\*\*

(0.04)

ola4:sexoMujer

-0.10\*

(0.05)

ola5:sexoMujer

0.06

(0.05)

ola6:sexoMujer

-0.00

(0.05)

ola7:sexoMujer

0.14\*\*

(0.04)

ola2:educTécnica

-0.18\*\*

-0.27\*\*

(0.06)

(0.09)

ola3:educTécnica

-0.34\*\*\*

-0.37\*\*\*

(0.06)

(0.09)

ola4:educTécnica

0.02

-0.14

(0.06)

(0.09)

ola5:educTécnica

-0.21\*\*

-0.39\*\*\*

(0.06)

(0.09)

ola6:educTécnica

-0.17\*\*

-0.29\*\*

(0.06)

(0.09)

ola7:educTécnica

-0.40\*\*\*

-0.40\*\*\*

(0.06)

(0.09)

ola2:educUniversitaria

-0.13\*

-0.10

(0.05)

(0.10)

ola3:educUniversitaria

-0.27\*\*\*

-0.19\*

(0.05)

(0.09)

ola4:educUniversitaria

0.33\*\*\*

0.08

(0.05)

(0.10)

ola5:educUniversitaria

-0.41\*\*\*

-0.59\*\*\*

(0.05)

(0.10)

ola6:educUniversitaria

-0.10

-0.35\*\*\*

(0.05)

(0.10)

ola7:educUniversitaria

-0.42\*\*\*

-0.49\*\*\*

(0.05)

(0.10)

ola2:pos\_idCentro

-0.13\*

-0.02

(0.06)

(0.09)

ola3:pos\_idCentro

0.02

0.07

(0.06)

(0.09)

ola4:pos\_idCentro

0.06

-0.13

(0.06)

(0.09)

ola5:pos\_idCentro

0.11

0.11

(0.07)

(0.09)

ola6:pos\_idCentro

0.13

0.08

(0.06)

(0.09)

ola7:pos\_idCentro

0.18\*\*

0.14

(0.06)

(0.09)

ola2:pos\_idDerecha

-0.01

0.04

(0.07)

(0.10)

ola3:pos\_idDerecha

0.04

0.15

(0.07)

(0.10)

ola4:pos\_idDerecha

-0.22\*\*

-0.25\*

(0.07)

(0.11)

ola5:pos\_idDerecha

0.08

0.24\*

(0.08)

(0.11)

ola6:pos\_idDerecha

-0.00

0.13

(0.07)

(0.11)

ola7:pos\_idDerecha

0.14\*

0.19

(0.07)

(0.11)

ola2:pos\_idNo se identifica

-0.04

0.09

(0.06)

(0.08)

ola3:pos\_idNo se identifica

0.03

0.09

(0.06)

(0.08)

ola4:pos\_idNo se identifica

0.07

-0.12

(0.06)

(0.09)

ola5:pos\_idNo se identifica

0.13\*

0.22\*

(0.06)

(0.09)

ola6:pos\_idNo se identifica

0.08

0.06

(0.06)

(0.09)

ola7:pos\_idNo se identifica

0.12\*

0.15

(0.06)

(0.09)

pos\_idCentro:edadEntre 29 y 45

0.18

(0.13)

pos\_idDerecha:edadEntre 29 y 45

0.16

(0.15)

pos\_idNo se identifica:edadEntre 29 y 45

-0.03

(0.12)

pos\_idCentro:edadEntre 24 y 28

-0.22

(0.20)

pos\_idDerecha:edadEntre 24 y 28

-0.50\*

(0.24)

pos\_idNo se identifica:edadEntre 24 y 28

-0.24

(0.18)

pos\_idCentro:edadEntre 18 y 23

-0.71\*\*\*

(0.21)

pos\_idDerecha:edadEntre 18 y 23

0.04

(0.24)

pos\_idNo se identifica:edadEntre 18 y 23

-0.10

(0.19)

ola2:pos\_idCentro:edadEntre 29 y 45

-0.43\*\*

(0.14)

ola3:pos\_idCentro:edadEntre 29 y 45

-0.28\*

(0.14)

ola4:pos\_idCentro:edadEntre 29 y 45

-0.33\*

(0.14)

ola5:pos\_idCentro:edadEntre 29 y 45

-0.40\*\*

(0.15)

ola6:pos\_idCentro:edadEntre 29 y 45

-0.25

(0.14)

ola7:pos\_idCentro:edadEntre 29 y 45

-0.29\*

(0.14)

ola2:pos\_idDerecha:edadEntre 29 y 45

-0.16

(0.16)

ola3:pos\_idDerecha:edadEntre 29 y 45

-0.31

(0.16)

ola4:pos\_idDerecha:edadEntre 29 y 45

-0.37\*

(0.16)

ola5:pos\_idDerecha:edadEntre 29 y 45

-0.29

(0.17)

ola6:pos\_idDerecha:edadEntre 29 y 45

-0.33\*

(0.17)

ola7:pos\_idDerecha:edadEntre 29 y 45

-0.23

(0.16)

ola2:pos\_idNo se identifica:edadEntre 29 y 45

-0.26\*

(0.13)

ola3:pos\_idNo se identifica:edadEntre 29 y 45

-0.13

(0.13)

ola4:pos\_idNo se identifica:edadEntre 29 y 45

-0.08

(0.13)

ola5:pos\_idNo se identifica:edadEntre 29 y 45

-0.20

(0.14)

ola6:pos\_idNo se identifica:edadEntre 29 y 45

-0.06

(0.14)

ola7:pos\_idNo se identifica:edadEntre 29 y 45

-0.18

(0.13)

ola2:pos\_idCentro:edadEntre 24 y 28

0.04

(0.19)

ola3:pos\_idCentro:edadEntre 24 y 28

-0.20

(0.19)

ola4:pos\_idCentro:edadEntre 24 y 28

1.27\*\*\*

(0.19)

ola5:pos\_idCentro:edadEntre 24 y 28

0.95\*\*\*

(0.20)

ola6:pos\_idCentro:edadEntre 24 y 28

0.57\*\*

(0.22)

ola7:pos\_idCentro:edadEntre 24 y 28

0.37

(0.20)

ola2:pos\_idDerecha:edadEntre 24 y 28

0.11

(0.24)

ola3:pos\_idDerecha:edadEntre 24 y 28

0.38

(0.25)

ola4:pos\_idDerecha:edadEntre 24 y 28

0.51\*

(0.24)

ola5:pos\_idDerecha:edadEntre 24 y 28

0.31

(0.25)

ola6:pos\_idDerecha:edadEntre 24 y 28

0.27

(0.25)

ola7:pos\_idDerecha:edadEntre 24 y 28

0.76\*\*

(0.24)

ola2:pos\_idNo se identifica:edadEntre 24 y 28

0.01

(0.18)

ola3:pos\_idNo se identifica:edadEntre 24 y 28

0.27

(0.17)

ola4:pos\_idNo se identifica:edadEntre 24 y 28

0.57\*\*\*

(0.17)

ola5:pos\_idNo se identifica:edadEntre 24 y 28

0.22

(0.18)

ola6:pos\_idNo se identifica:edadEntre 24 y 28

0.24

(0.18)

ola7:pos\_idNo se identifica:edadEntre 24 y 28

0.65\*\*\*

(0.17)

ola2:pos\_idCentro:edadEntre 18 y 23

0.30

(0.20)

ola3:pos\_idCentro:edadEntre 18 y 23

0.61\*\*

(0.20)

ola4:pos\_idCentro:edadEntre 18 y 23

1.10\*\*\*

(0.20)

ola5:pos\_idCentro:edadEntre 18 y 23

0.32

(0.20)

ola6:pos\_idCentro:edadEntre 18 y 23

0.68\*\*\*

(0.19)

ola7:pos\_idCentro:edadEntre 18 y 23

0.69\*\*\*

(0.18)

ola2:pos\_idDerecha:edadEntre 18 y 23

-0.04

(0.24)

ola3:pos\_idDerecha:edadEntre 18 y 23

-0.45

(0.24)

ola4:pos\_idDerecha:edadEntre 18 y 23

0.24

(0.23)

ola5:pos\_idDerecha:edadEntre 18 y 23

-0.69\*\*

(0.24)

ola6:pos\_idDerecha:edadEntre 18 y 23

-0.28

(0.23)

ola7:pos\_idDerecha:edadEntre 18 y 23

-0.36

(0.21)

ola2:pos\_idNo se identifica:edadEntre 18 y 23

-0.28

(0.18)

ola3:pos\_idNo se identifica:edadEntre 18 y 23

-0.30

(0.19)

ola4:pos\_idNo se identifica:edadEntre 18 y 23

0.83\*\*\*

(0.19)

ola5:pos\_idNo se identifica:edadEntre 18 y 23

-0.18

(0.18)

ola6:pos\_idNo se identifica:edadEntre 18 y 23

0.19

(0.18)

ola7:pos\_idNo se identifica:edadEntre 18 y 23

-0.09

(0.17)

educTécnica:edadEntre 29 y 45

-0.08

(0.13)

educUniversitaria:edadEntre 29 y 45

-0.21

(0.12)

educTécnica:edadEntre 24 y 28

0.49\*

(0.20)

educUniversitaria:edadEntre 24 y 28

-0.03

(0.16)

educTécnica:edadEntre 18 y 23

0.29

(0.20)

educUniversitaria:edadEntre 18 y 23

0.26

(0.17)

ola2:educTécnica:edadEntre 29 y 45

0.30\*

(0.14)

ola3:educTécnica:edadEntre 29 y 45

0.29\*

(0.14)

ola4:educTécnica:edadEntre 29 y 45

0.17

(0.14)

ola5:educTécnica:edadEntre 29 y 45

0.57\*\*\*

(0.14)

ola6:educTécnica:edadEntre 29 y 45

0.24

(0.14)

ola7:educTécnica:edadEntre 29 y 45

0.40\*\*

(0.13)

ola2:educUniversitaria:edadEntre 29 y 45

0.25

(0.13)

ola3:educUniversitaria:edadEntre 29 y 45

0.16

(0.13)

ola4:educUniversitaria:edadEntre 29 y 45

0.25

(0.13)

ola5:educUniversitaria:edadEntre 29 y 45

0.40\*\*

(0.14)

ola6:educUniversitaria:edadEntre 29 y 45

0.41\*\*

(0.14)

ola7:educUniversitaria:edadEntre 29 y 45

0.50\*\*\*

(0.13)

ola2:educTécnica:edadEntre 24 y 28

-0.16

(0.20)

ola3:educTécnica:edadEntre 24 y 28

-0.53\*\*

(0.19)

ola4:educTécnica:edadEntre 24 y 28

0.41\*

(0.19)

ola5:educTécnica:edadEntre 24 y 28

0.06

(0.20)

ola6:educTécnica:edadEntre 24 y 28

-0.19

(0.21)

ola7:educTécnica:edadEntre 24 y 28

-0.46\*

(0.19)

ola2:educUniversitaria:edadEntre 24 y 28

0.06

(0.17)

ola3:educUniversitaria:edadEntre 24 y 28

-0.21

(0.16)

ola4:educUniversitaria:edadEntre 24 y 28

0.32

(0.17)

ola5:educUniversitaria:edadEntre 24 y 28

0.61\*\*\*

(0.17)

ola6:educUniversitaria:edadEntre 24 y 28

-0.06

(0.17)

ola7:educUniversitaria:edadEntre 24 y 28

-0.22

(0.17)

ola2:educTécnica:edadEntre 18 y 23

0.11

(0.19)

ola3:educTécnica:edadEntre 18 y 23

0.00

(0.19)

ola4:educTécnica:edadEntre 18 y 23

0.15

(0.19)

ola5:educTécnica:edadEntre 18 y 23

-0.28

(0.20)

ola6:educTécnica:edadEntre 18 y 23

0.21

(0.18)

ola7:educTécnica:edadEntre 18 y 23

-0.42\*

(0.17)

ola2:educUniversitaria:edadEntre 18 y 23

-0.74\*\*\*

(0.17)

ola3:educUniversitaria:edadEntre 18 y 23

-0.65\*\*\*

(0.17)

ola4:educUniversitaria:edadEntre 18 y 23

-0.50\*\*

(0.17)

ola5:educUniversitaria:edadEntre 18 y 23

-0.63\*\*\*

(0.17)

ola6:educUniversitaria:edadEntre 18 y 23

0.13

(0.16)

ola7:educUniversitaria:edadEntre 18 y 23

-0.49\*\*

(0.16)

AIC

40229.86

40153.45

40157.44

40082.24

40023.06

39435.06

40002.58

39775.32

40065.12

39430.69

39215.18

BIC

40295.63

40241.15

40252.45

40191.87

40154.61

39698.16

40177.97

39994.56

40328.21

40285.75

39872.92

Log Likelihood

-20105.93

-20064.73

-20065.72

-20026.12

-19993.53

-19681.53

-19977.29

-19857.66

-19996.56

-19598.35

-19517.59

Num. obs.

11028

11028

11028

11028

11028

11028

11028

11028

11028

11028

11028

Num. groups: idencuesta

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

Var: idencuesta (Intercept)

0.22

0.20

0.19

0.18

0.16

0.16

0.16

0.16

0.16

0.16

0.16

Var: Residual

0.38

0.38

0.38

0.38

0.38

0.35

0.37

0.36

0.37

0.34

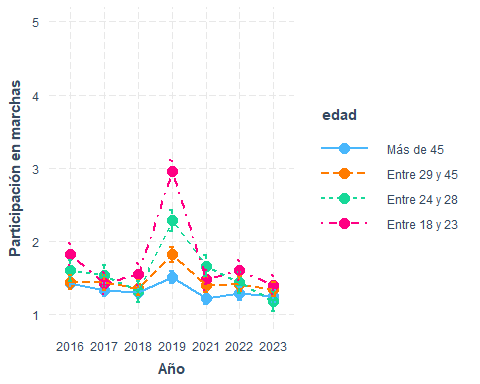
0.34

\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05

### interacciones

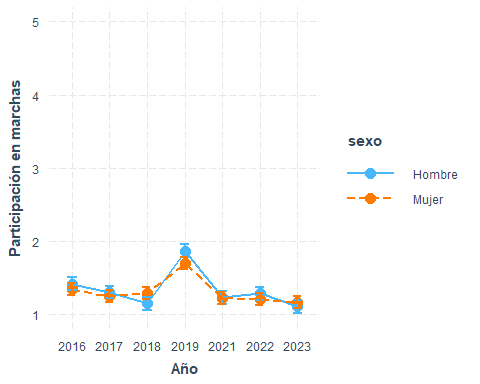
waves <- c("2016", "2017", "2018", "2019", "2021", "2022", "2023")  
interact\_plot(marchar6, pred = ola, modx = edad, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Participación en marchas", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



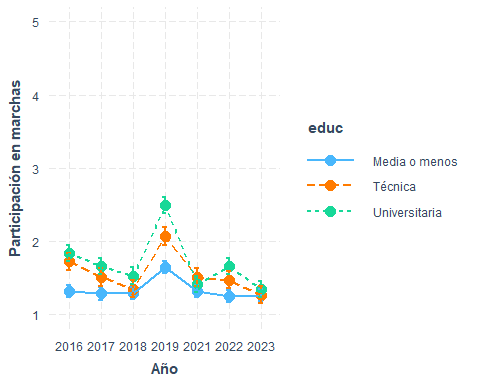
interact\_plot(marchar7, pred = ola, modx = sexo, interval = TRUE,  
 modx.labels = c("Hombre", "Mujer")) +  
 ylim(1,5) +  
 labs(y = "Participación en marchas", x = "Año") +  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



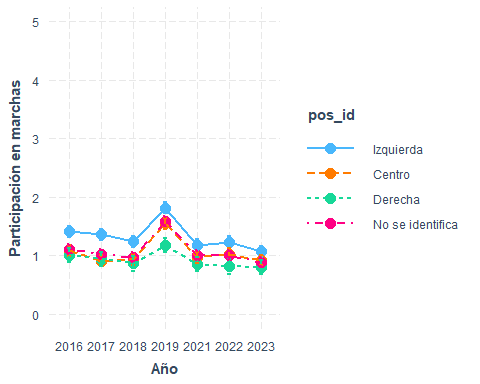
interact\_plot(marchar8, pred = ola, modx = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Participación en marchas", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



interact\_plot(marchar9, pred = ola, modx = pos\_id, interval = TRUE)+  
 ylim(0,5)+  
 labs(y="Participación en marchas", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

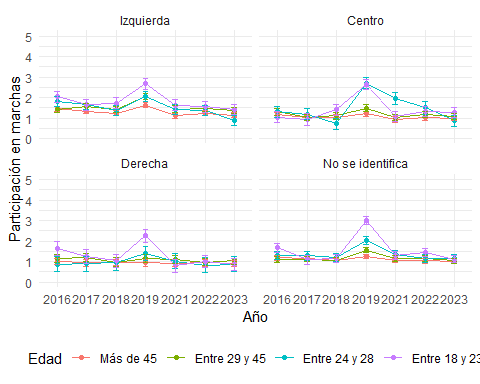


library(ggeffects)

Attaching package: 'ggeffects'

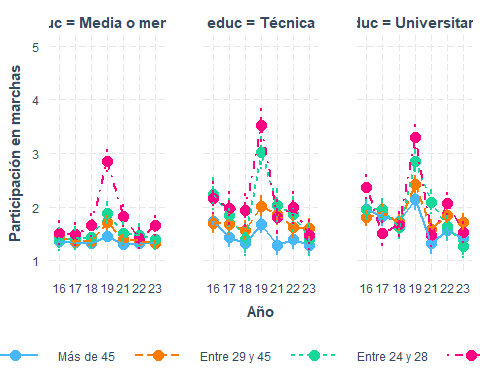
The following object is masked from 'package:interactions':  
  
 johnson\_neyman

preds <- ggpredict(marchar10, terms = c("ola", "edad", "pos\_id"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Participación en marchas",  
 color = "Edad"  
 ) +  
 ylim(0, 5) +  
 scale\_x\_discrete(labels = waves) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")



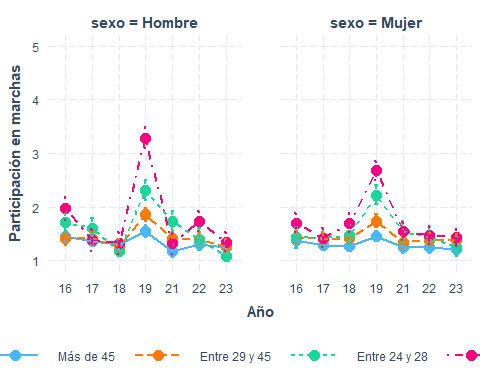
waves <- c("16", "17", "18", "19", "21", "22", "23")  
interact\_plot(marchar11, pred = ola, modx = edad, mod2 = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Participación en marchas", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



interact\_plot(marchar12, pred = ola, modx = edad, mod2 = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Participación en marchas", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



## Participación en redes sociales (en todas las olas)

if (!require("pacman")) install.packages("pacman") # instalar pacman

Loading required package: pacman

Warning: package 'pacman' was built under R version 4.3.3

# cargar librerias  
pacman::p\_load(dplyr, # Manipulacion de datos  
 knitr,  
 kableExtra,  
 summarytools,  
 lme4,  
 texreg  
 )  
load(file = here::here("input/data-proc/df\_study1\_long\_t7.RData"))  
  
# generate analytical sample  
df\_study1 <-   
 df\_study1\_long\_t7 %>%  
 select(idencuesta,ola,part\_rrss, edad, sexo, pos\_id, educ, universitaria, ponderador\_long\_total) %>%   
 na.omit() %>%   
 mutate(ola\_num=as.numeric(ola),  
 ola=as.factor(ola),  
 edad = case\_when(edad <=23~"Entre 18 y 23",  
 edad >23 & edad <=28 ~ "Entre 24 y 28",  
 edad >28 & edad <=45 ~ "Entre 29 y 45",  
 edad > 45 ~ "Más de 45"))   
df\_study1$edad <- factor(df\_study1$edad, levels = c("Más de 45", "Entre 29 y 45", "Entre 24 y 28", "Entre 18 y 23"))  
df\_study1$sexo <- factor(df\_study1$sexo, levels = c(1, 2), labels = c("Hombre", "Mujer"))  
  
marchar.null <- lmer(formula(paste0("part\_rrss~","1 + (1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar1 <- lmer(formula(paste0("part\_rrss~",h1,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar2 <- lmer(formula(paste0("part\_rrss~",h2,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar3 <- lmer(formula(paste0("part\_rrss~",h3,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar4 <- lmer(formula(paste0("part\_rrss~",h4,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar5 <- lmer(formula(paste0("part\_rrss~",h5,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar6 <- lmer(formula(paste0("part\_rrss~",h6,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar7 <- lmer(formula(paste0("part\_rrss~",h7,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar8 <- lmer(formula(paste0("part\_rrss~",h8,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar9 <- lmer(formula(paste0("part\_rrss~",h9,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar10 <- lmer(formula(paste0("part\_rrss~",h10,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar11 <- lmer(formula(paste0("part\_rrss~",h11,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar12 <- lmer(formula(paste0("part\_rrss~",h12,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)

texreg::knitreg(list(marchar1, marchar2, marchar3, marchar4, marchar5, marchar6, marchar7, marchar8, marchar9, marchar10, marchar11),  
 custom.note = "\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05")

Statistical models

Model 1

Model 2

Model 3

Model 4

Model 5

Model 6

Model 7

Model 8

Model 9

Model 10

Model 11

(Intercept)

1.69\*\*\*

1.42\*\*\*

1.40\*\*\*

1.27\*\*\*

1.45\*\*\*

1.50\*\*\*

1.44\*\*\*

1.40\*\*\*

1.44\*\*\*

1.46\*\*\*

1.44\*\*\*

(0.03)

(0.04)

(0.05)

(0.05)

(0.07)

(0.07)

(0.07)

(0.07)

(0.08)

(0.10)

(0.08)

ola2

0.01

0.01

0.01

0.01

0.01

-0.01

0.03

0.05

0.12\*

0.22\*

0.02

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.05)

(0.04)

(0.06)

(0.09)

(0.05)

ola3

0.06

0.06

0.06

0.06

0.06

-0.05

0.04

0.14\*\*\*

0.07

-0.11

-0.04

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.05)

(0.04)

(0.06)

(0.09)

(0.05)

ola4

0.41\*\*\*

0.41\*\*\*

0.41\*\*\*

0.41\*\*\*

0.41\*\*\*

0.13\*\*

0.42\*\*\*

0.39\*\*\*

0.45\*\*\*

0.25\*\*

0.14\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.05)

(0.04)

(0.06)

(0.09)

(0.06)

ola5

0.19\*\*\*

0.19\*\*\*

0.19\*\*\*

0.19\*\*\*

0.19\*\*\*

0.12\*

0.10\*

0.29\*\*\*

0.27\*\*\*

0.25\*\*

0.15\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.05)

(0.04)

(0.06)

(0.10)

(0.06)

ola6

0.05

0.04

0.04

0.05

0.05

0.02

0.14\*\*

0.08

-0.11

0.00

0.07

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.05)

(0.04)

(0.06)

(0.10)

(0.06)

ola7

-0.04

-0.05

-0.05

-0.05

-0.05

0.07

-0.02

0.04

-0.11

0.10

0.10

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.04)

(0.04)

(0.06)

(0.09)

(0.06)

edadEntre 29 y 45

0.48\*\*\*

0.48\*\*\*

0.41\*\*\*

0.42\*\*\*

0.42\*\*\*

0.42\*\*\*

0.42\*\*\*

0.42\*\*\*

0.44\*\*

0.43\*\*\*

(0.06)

(0.06)

(0.06)

(0.06)

(0.07)

(0.06)

(0.06)

(0.06)

(0.14)

(0.09)

edadEntre 24 y 28

0.70\*\*\*

0.71\*\*\*

0.55\*\*\*

0.57\*\*\*

0.45\*\*\*

0.57\*\*\*

0.57\*\*\*

0.57\*\*\*

0.34

0.30

(0.09)

(0.09)

(0.09)

(0.09)

(0.11)

(0.09)

(0.09)

(0.09)

(0.23)

(0.17)

edadEntre 18 y 23

0.87\*\*\*

0.87\*\*\*

0.74\*\*\*

0.76\*\*\*

0.40\*\*\*

0.76\*\*\*

0.76\*\*\*

0.75\*\*\*

0.78\*\*

0.45\*\*

(0.10)

(0.10)

(0.10)

(0.10)

(0.12)

(0.10)

(0.10)

(0.10)

(0.24)

(0.17)

sexoMujer

0.04

0.06

0.08

0.08

0.10

0.08

0.08

0.06

0.09

(0.05)

(0.05)

(0.05)

(0.05)

(0.07)

(0.05)

(0.05)

(0.05)

(0.05)

educTécnica

0.27\*\*\*

0.24\*\*\*

0.25\*\*\*

0.24\*\*\*

0.54\*\*\*

0.24\*\*\*

0.24\*\*\*

0.37\*\*

(0.07)

(0.07)

(0.07)

(0.07)

(0.09)

(0.07)

(0.07)

(0.13)

educUniversitaria

0.52\*\*\*

0.48\*\*\*

0.49\*\*\*

0.49\*\*\*

0.46\*\*\*

0.48\*\*\*

0.50\*\*\*

0.70\*\*\*

(0.07)

(0.07)

(0.07)

(0.07)

(0.08)

(0.07)

(0.07)

(0.13)

pos\_idCentro

-0.21\*\*

-0.21\*\*

-0.21\*\*

-0.21\*\*

-0.09

-0.12

-0.20\*\*

(0.07)

(0.07)

(0.07)

(0.07)

(0.09)

(0.12)

(0.07)

pos\_idDerecha

-0.11

-0.12

-0.12

-0.12

-0.08

-0.12

-0.12

(0.08)

(0.08)

(0.08)

(0.08)

(0.11)

(0.15)

(0.08)

pos\_idNo se identifica

-0.28\*\*\*

-0.28\*\*\*

-0.28\*\*\*

-0.28\*\*\*

-0.37\*\*\*

-0.20

-0.27\*\*\*

(0.07)

(0.07)

(0.07)

(0.07)

(0.08)

(0.12)

(0.06)

ola2:edadEntre 29 y 45

-0.02

-0.19

-0.09

(0.07)

(0.13)

(0.09)

ola3:edadEntre 29 y 45

0.12

0.15

0.16

(0.07)

(0.13)

(0.09)

ola4:edadEntre 29 y 45

0.17\*

0.24

0.11

(0.07)

(0.14)

(0.09)

ola5:edadEntre 29 y 45

-0.02

-0.11

0.13

(0.08)

(0.15)

(0.10)

ola6:edadEntre 29 y 45

-0.04

-0.02

0.03

(0.08)

(0.14)

(0.10)

ola7:edadEntre 29 y 45

-0.23\*\*

-0.22

-0.27\*\*

(0.07)

(0.14)

(0.09)

ola2:edadEntre 24 y 28

-0.03

-0.19

0.11

(0.10)

(0.19)

(0.15)

ola3:edadEntre 24 y 28

0.30\*\*

0.31

1.00\*\*\*

(0.10)

(0.19)

(0.15)

ola4:edadEntre 24 y 28

0.74\*\*\*

0.30

1.19\*\*\*

(0.10)

(0.18)

(0.15)

ola5:edadEntre 24 y 28

0.03

-0.50\*\*

0.25

(0.11)

(0.19)

(0.16)

ola6:edadEntre 24 y 28

-0.14

-0.61\*\*

-0.05

(0.11)

(0.19)

(0.15)

ola7:edadEntre 24 y 28

-0.09

-0.77\*\*\*

0.40\*\*

(0.10)

(0.19)

(0.15)

ola2:edadEntre 18 y 23

0.24\*

-0.05

0.59\*\*\*

(0.10)

(0.20)

(0.16)

ola3:edadEntre 18 y 23

0.31\*\*

0.84\*\*\*

0.68\*\*\*

(0.10)

(0.21)

(0.15)

ola4:edadEntre 18 y 23

0.96\*\*\*

0.65\*\*

1.13\*\*\*

(0.10)

(0.22)

(0.14)

ola5:edadEntre 18 y 23

0.56\*\*\*

1.04\*\*\*

0.85\*\*\*

(0.10)

(0.21)

(0.15)

ola6:edadEntre 18 y 23

0.42\*\*\*

0.02

0.34\*

(0.10)

(0.20)

(0.14)

ola7:edadEntre 18 y 23

0.00

-0.05

0.33\*

(0.09)

(0.19)

(0.14)

ola2:sexoMujer

-0.04

(0.06)

ola3:sexoMujer

0.03

(0.06)

ola4:sexoMujer

-0.02

(0.06)

ola5:sexoMujer

0.18\*\*

(0.07)

ola6:sexoMujer

-0.19\*\*

(0.06)

ola7:sexoMujer

-0.06

(0.06)

ola2:educTécnica

-0.27\*\*

-0.13

(0.08)

(0.12)

ola3:educTécnica

-0.38\*\*\*

0.14

(0.09)

(0.13)

ola4:educTécnica

-0.27\*\*

-0.14

(0.09)

(0.13)

ola5:educTécnica

-0.36\*\*\*

-0.23

(0.09)

(0.13)

ola6:educTécnica

-0.36\*\*\*

-0.35\*\*

(0.09)

(0.13)

ola7:educTécnica

-0.44\*\*\*

-0.21

(0.08)

(0.13)

ola2:educUniversitaria

0.04

-0.07

(0.08)

(0.14)

ola3:educUniversitaria

-0.06

-0.21

(0.08)

(0.14)

ola4:educUniversitaria

0.28\*\*\*

0.14

(0.08)

(0.14)

ola5:educUniversitaria

-0.14

0.04

(0.08)

(0.14)

ola6:educUniversitaria

0.10

0.07

(0.08)

(0.15)

ola7:educUniversitaria

-0.05

0.14

(0.07)

(0.14)

ola2:pos\_idCentro

-0.24\*\*

-0.29\*

(0.09)

(0.12)

ola3:pos\_idCentro

-0.03

0.16

(0.09)

(0.13)

ola4:pos\_idCentro

-0.07

-0.24

(0.09)

(0.13)

ola5:pos\_idCentro

-0.34\*\*\*

-0.34\*

(0.09)

(0.13)

ola6:pos\_idCentro

-0.05

-0.19

(0.09)

(0.13)

ola7:pos\_idCentro

-0.15

-0.07

(0.09)

(0.13)

ola2:pos\_idDerecha

-0.07

-0.38\*

(0.10)

(0.15)

ola3:pos\_idDerecha

-0.17

-0.04

(0.10)

(0.15)

ola4:pos\_idDerecha

-0.26\*

-0.09

(0.10)

(0.15)

ola5:pos\_idDerecha

-0.10

-0.05

(0.11)

(0.16)

ola6:pos\_idDerecha

0.19

0.37\*

(0.10)

(0.16)

ola7:pos\_idDerecha

0.14

0.17

(0.10)

(0.15)

ola2:pos\_idNo se identifica

-0.13

-0.29\*

(0.08)

(0.12)

ola3:pos\_idNo se identifica

0.06

0.09

(0.08)

(0.12)

ola4:pos\_idNo se identifica

0.05

-0.12

(0.08)

(0.12)

ola5:pos\_idNo se identifica

0.07

-0.10

(0.08)

(0.13)

ola6:pos\_idNo se identifica

0.39\*\*\*

0.04

(0.08)

(0.13)

ola7:pos\_idNo se identifica

0.23\*\*

-0.09

(0.08)

(0.12)

pos\_idCentro:edadEntre 29 y 45

0.16

(0.21)

pos\_idDerecha:edadEntre 29 y 45

0.16

(0.24)

pos\_idNo se identifica:edadEntre 29 y 45

-0.21

(0.19)

pos\_idCentro:edadEntre 24 y 28

0.19

(0.32)

pos\_idDerecha:edadEntre 24 y 28

0.45

(0.39)

pos\_idNo se identifica:edadEntre 24 y 28

-0.06

(0.28)

pos\_idCentro:edadEntre 18 y 23

-0.36

(0.34)

pos\_idDerecha:edadEntre 18 y 23

-0.41

(0.39)

pos\_idNo se identifica:edadEntre 18 y 23

-0.62\*

(0.30)

ola2:pos\_idCentro:edadEntre 29 y 45

0.15

(0.19)

ola3:pos\_idCentro:edadEntre 29 y 45

-0.20

(0.19)

ola4:pos\_idCentro:edadEntre 29 y 45

0.04

(0.20)

ola5:pos\_idCentro:edadEntre 29 y 45

0.17

(0.21)

ola6:pos\_idCentro:edadEntre 29 y 45

0.19

(0.20)

ola7:pos\_idCentro:edadEntre 29 y 45

-0.26

(0.20)

ola2:pos\_idDerecha:edadEntre 29 y 45

0.41

(0.23)

ola3:pos\_idDerecha:edadEntre 29 y 45

-0.19

(0.23)

ola4:pos\_idDerecha:edadEntre 29 y 45

-0.44

(0.23)

ola5:pos\_idDerecha:edadEntre 29 y 45

-0.09

(0.24)

ola6:pos\_idDerecha:edadEntre 29 y 45

-0.58\*

(0.24)

ola7:pos\_idDerecha:edadEntre 29 y 45

-0.22

(0.23)

ola2:pos\_idNo se identifica:edadEntre 29 y 45

0.22

(0.18)

ola3:pos\_idNo se identifica:edadEntre 29 y 45

0.15

(0.18)

ola4:pos\_idNo se identifica:edadEntre 29 y 45

-0.05

(0.19)

ola5:pos\_idNo se identifica:edadEntre 29 y 45

0.17

(0.20)

ola6:pos\_idNo se identifica:edadEntre 29 y 45

0.03

(0.19)

ola7:pos\_idNo se identifica:edadEntre 29 y 45

0.25

(0.18)

ola2:pos\_idCentro:edadEntre 24 y 28

-0.25

(0.28)

ola3:pos\_idCentro:edadEntre 24 y 28

-0.42

(0.27)

ola4:pos\_idCentro:edadEntre 24 y 28

1.40\*\*\*

(0.28)

ola5:pos\_idCentro:edadEntre 24 y 28

0.51

(0.29)

ola6:pos\_idCentro:edadEntre 24 y 28

0.59

(0.31)

ola7:pos\_idCentro:edadEntre 24 y 28

0.46

(0.28)

ola2:pos\_idDerecha:edadEntre 24 y 28

0.37

(0.35)

ola3:pos\_idDerecha:edadEntre 24 y 28

0.35

(0.36)

ola4:pos\_idDerecha:edadEntre 24 y 28

-0.45

(0.34)

ola5:pos\_idDerecha:edadEntre 24 y 28

0.00

(0.36)

ola6:pos\_idDerecha:edadEntre 24 y 28

0.24

(0.36)

ola7:pos\_idDerecha:edadEntre 24 y 28

0.23

(0.34)

ola2:pos\_idNo se identifica:edadEntre 24 y 28

0.41

(0.25)

ola3:pos\_idNo se identifica:edadEntre 24 y 28

0.13

(0.24)

ola4:pos\_idNo se identifica:edadEntre 24 y 28

0.52\*

(0.25)

ola5:pos\_idNo se identifica:edadEntre 24 y 28

1.16\*\*\*

(0.26)

ola6:pos\_idNo se identifica:edadEntre 24 y 28

0.87\*\*\*

(0.25)

ola7:pos\_idNo se identifica:edadEntre 24 y 28

1.47\*\*\*

(0.25)

ola2:pos\_idCentro:edadEntre 18 y 23

0.15

(0.29)

ola3:pos\_idCentro:edadEntre 18 y 23

-0.64\*

(0.29)

ola4:pos\_idCentro:edadEntre 18 y 23

0.12

(0.29)

ola5:pos\_idCentro:edadEntre 18 y 23

-1.04\*\*\*

(0.29)

ola6:pos\_idCentro:edadEntre 18 y 23

-0.07

(0.28)

ola7:pos\_idCentro:edadEntre 18 y 23

-0.36

(0.26)

ola2:pos\_idDerecha:edadEntre 18 y 23

1.15\*\*\*

(0.34)

ola3:pos\_idDerecha:edadEntre 18 y 23

-0.68\*

(0.34)

ola4:pos\_idDerecha:edadEntre 18 y 23

0.15

(0.33)

ola5:pos\_idDerecha:edadEntre 18 y 23

-0.36

(0.34)

ola6:pos\_idDerecha:edadEntre 18 y 23

-0.10

(0.32)

ola7:pos\_idDerecha:edadEntre 18 y 23

0.01

(0.31)

ola2:pos\_idNo se identifica:edadEntre 18 y 23

0.23

(0.26)

ola3:pos\_idNo se identifica:edadEntre 18 y 23

-0.76\*\*

(0.26)

ola4:pos\_idNo se identifica:edadEntre 18 y 23

0.69\*

(0.27)

ola5:pos\_idNo se identifica:edadEntre 18 y 23

-0.43

(0.26)

ola6:pos\_idNo se identifica:edadEntre 18 y 23

0.96\*\*\*

(0.25)

ola7:pos\_idNo se identifica:edadEntre 18 y 23

0.35

(0.24)

educTécnica:edadEntre 29 y 45

-0.19

(0.20)

educUniversitaria:edadEntre 29 y 45

-0.00

(0.19)

educTécnica:edadEntre 24 y 28

0.96\*\*

(0.31)

educUniversitaria:edadEntre 24 y 28

-0.25

(0.26)

educTécnica:edadEntre 18 y 23

0.94\*\*

(0.32)

educUniversitaria:edadEntre 18 y 23

-0.88\*\*

(0.27)

ola2:educTécnica:edadEntre 29 y 45

0.19

(0.19)

ola3:educTécnica:edadEntre 29 y 45

-0.26

(0.20)

ola4:educTécnica:edadEntre 29 y 45

0.34

(0.20)

ola5:educTécnica:edadEntre 29 y 45

-0.11

(0.20)

ola6:educTécnica:edadEntre 29 y 45

0.52\*

(0.20)

ola7:educTécnica:edadEntre 29 y 45

0.53\*\*

(0.19)

ola2:educUniversitaria:edadEntre 29 y 45

0.17

(0.19)

ola3:educUniversitaria:edadEntre 29 y 45

0.11

(0.19)

ola4:educUniversitaria:edadEntre 29 y 45

-0.06

(0.19)

ola5:educUniversitaria:edadEntre 29 y 45

-0.51\*\*

(0.20)

ola6:educUniversitaria:edadEntre 29 y 45

-0.65\*\*\*

(0.20)

ola7:educUniversitaria:edadEntre 29 y 45

-0.24

(0.19)

ola2:educTécnica:edadEntre 24 y 28

-0.61\*

(0.29)

ola3:educTécnica:edadEntre 24 y 28

-1.95\*\*\*

(0.27)

ola4:educTécnica:edadEntre 24 y 28

-1.14\*\*\*

(0.28)

ola5:educTécnica:edadEntre 24 y 28

-0.35

(0.29)

ola6:educTécnica:edadEntre 24 y 28

-0.67\*

(0.30)

ola7:educTécnica:edadEntre 24 y 28

-1.43\*\*\*

(0.27)

ola2:educUniversitaria:edadEntre 24 y 28

0.02

(0.24)

ola3:educUniversitaria:edadEntre 24 y 28

-0.67\*\*

(0.24)

ola4:educUniversitaria:edadEntre 24 y 28

-0.69\*\*

(0.24)

ola5:educUniversitaria:edadEntre 24 y 28

-0.42

(0.25)

ola6:educUniversitaria:edadEntre 24 y 28

0.08

(0.25)

ola7:educUniversitaria:edadEntre 24 y 28

-0.65\*\*

(0.24)

ola2:educTécnica:edadEntre 18 y 23

-1.14\*\*\*

(0.27)

ola3:educTécnica:edadEntre 18 y 23

-1.92\*\*\*

(0.27)

ola4:educTécnica:edadEntre 18 y 23

-1.27\*\*\*

(0.27)

ola5:educTécnica:edadEntre 18 y 23

-0.66\*

(0.28)

ola6:educTécnica:edadEntre 18 y 23

-0.90\*\*\*

(0.26)

ola7:educTécnica:edadEntre 18 y 23

-1.61\*\*\*

(0.25)

ola2:educUniversitaria:edadEntre 18 y 23

-0.17

(0.25)

ola3:educUniversitaria:edadEntre 18 y 23

0.22

(0.24)

ola4:educUniversitaria:edadEntre 18 y 23

0.20

(0.24)

ola5:educUniversitaria:edadEntre 18 y 23

-0.20

(0.24)

ola6:educUniversitaria:edadEntre 18 y 23

0.64\*\*

(0.23)

ola7:educUniversitaria:edadEntre 18 y 23

-0.07

(0.22)

AIC

47957.67

47829.70

47835.30

47779.52

47776.70

47630.47

47779.70

47770.90

47764.81

47492.49

47456.35

BIC

48023.44

47917.39

47930.30

47889.14

47908.24

47893.56

47955.09

47990.13

48027.90

48347.50

48114.06

Log Likelihood

-23969.83

-23902.85

-23904.65

-23874.76

-23870.35

-23779.24

-23865.85

-23855.45

-23846.41

-23629.24

-23638.18

Num. obs.

11024

11024

11024

11024

11024

11024

11024

11024

11024

11024

11024

Num. groups: idencuesta

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

Var: idencuesta (Intercept)

0.65

0.57

0.57

0.54

0.53

0.53

0.53

0.53

0.53

0.53

0.52

Var: Residual

0.74

0.73

0.73

0.73

0.73

0.72

0.73

0.73

0.73

0.69

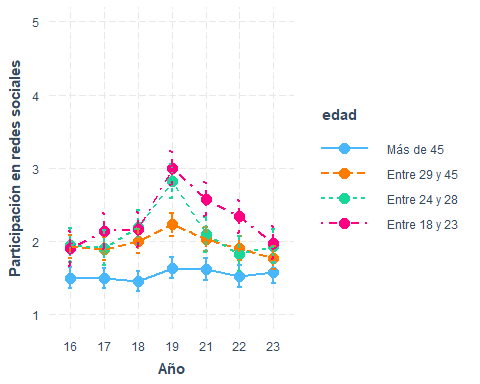
0.69

\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05

### interacciones

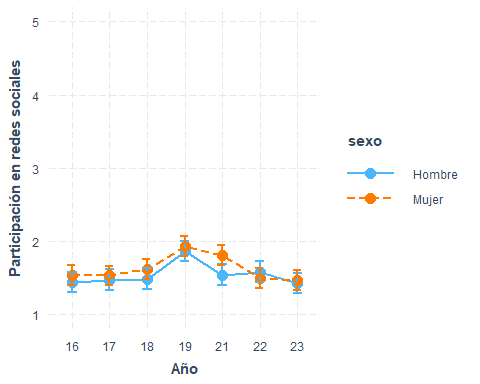
interact\_plot(marchar6, pred = ola, modx = edad, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Participación en redes sociales", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



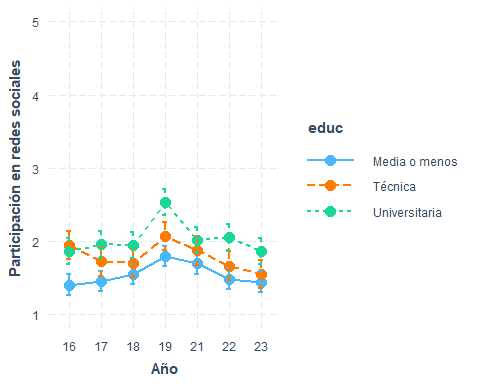
interact\_plot(marchar7, pred = ola, modx = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Participación en redes sociales", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



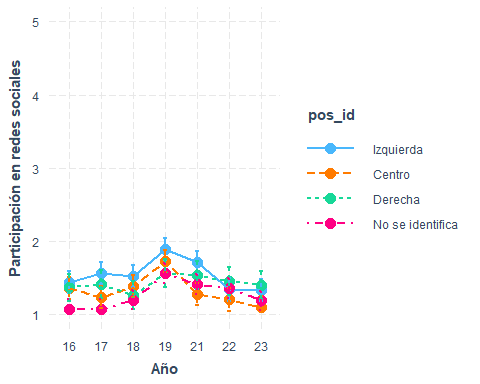
interact\_plot(marchar8, pred = ola, modx = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Participación en redes sociales", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

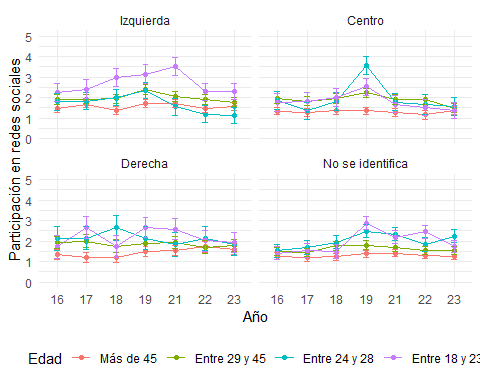


interact\_plot(marchar9, pred = ola, modx = pos\_id, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Participación en redes sociales", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

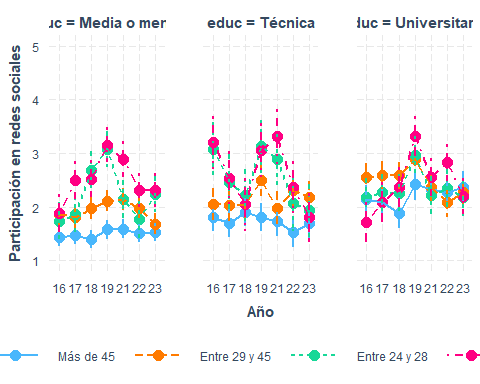


preds <- ggpredict(marchar10, terms = c("ola", "edad", "pos\_id"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Participación en redes sociales",  
 color = "Edad"  
 ) +  
 ylim(0, 5) +  
 scale\_x\_discrete(labels = waves) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")



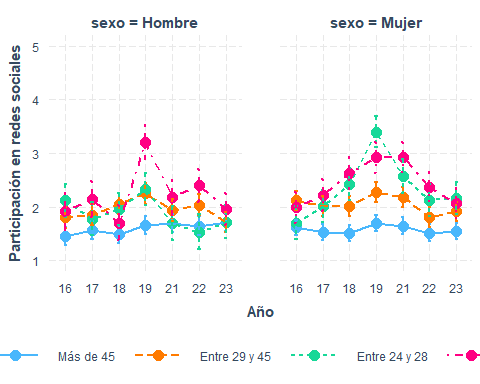
interact\_plot(marchar11, pred = ola, modx = edad, mod2 = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Participación en redes sociales", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



interact\_plot(marchar12, pred = ola, modx = edad, mod2 = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Participación en redes sociales", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



## Apoyo mov estudiantil (todas las olas)

#if (!require("pacman")) install.packages("pacman") # instalar pacman  
 # cargar librerias  
pacman::p\_load(dplyr, # Manipulacion de datos  
 knitr,  
 kableExtra,  
 summarytools,  
 lme4,  
 texreg  
 )  
load(file = here::here("input/data-proc/df\_study1\_long\_t7.RData"))  
  
# generate analytical sample  
df\_study1 <-   
 df\_study1\_long\_t7 %>%  
 select(idencuesta,ola,mov\_estudiantil, edad, sexo, pos\_id, educ, universitaria, ponderador\_long\_total) %>%   
 na.omit() %>%   
 mutate(ola\_num=as.numeric(ola),  
 ola=as.factor(ola),  
 edad = case\_when(edad <=23~"Entre 18 y 23",  
 edad >23 & edad <=28 ~ "Entre 24 y 28",  
 edad >28 & edad <=45 ~ "Entre 29 y 45",  
 edad > 45 ~ "Más de 45"))   
df\_study1$edad <- factor(df\_study1$edad, levels = c("Más de 45", "Entre 29 y 45", "Entre 24 y 28", "Entre 18 y 23"))  
df\_study1$sexo <- factor(df\_study1$sexo, levels = c(1, 2), labels = c("Hombre", "Mujer"))  
  
marchar.null <- glmer(formula(paste0("mov\_estudiantil~","1 + (1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total, family = 'binomial')

Warning in eval(family$initialize, rho): non-integer #successes in a binomial  
glm!

marchar1 <- glmer(formula(paste0("mov\_estudiantil~",h1,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total, family = 'binomial')

Warning in eval(family$initialize, rho): non-integer #successes in a binomial  
glm!

marchar2 <- glmer(formula(paste0("mov\_estudiantil~",h2,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total, family = 'binomial')

Warning in eval(family$initialize, rho): non-integer #successes in a binomial  
glm!

Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv, :  
Model failed to converge with max|grad| = 0.303436 (tol = 0.002, component 1)

marchar3 <- glmer(formula(paste0("mov\_estudiantil~",h3,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total, family = 'binomial')

Warning in eval(family$initialize, rho): non-integer #successes in a binomial  
glm!

Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv, :  
Model failed to converge with max|grad| = 0.411008 (tol = 0.002, component 1)

marchar4 <- lmer(formula(paste0("mov\_estudiantil~",h4,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar5 <- lmer(formula(paste0("mov\_estudiantil~",h5,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar6 <- lmer(formula(paste0("mov\_estudiantil~",h6,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar7 <- lmer(formula(paste0("mov\_estudiantil~",h7,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar8 <- lmer(formula(paste0("mov\_estudiantil~",h8,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar9 <- lmer(formula(paste0("mov\_estudiantil~",h9,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar10 <- lmer(formula(paste0("mov\_estudiantil~",h10,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar11 <- lmer(formula(paste0("mov\_estudiantil~",h11,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar12 <- lmer(formula(paste0("mov\_estudiantil~",h12,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)

texreg::knitreg(list(marchar1, marchar2, marchar3, marchar4, marchar5, marchar6, marchar7, marchar8, marchar9, marchar10, marchar11),  
 custom.note = "\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05")

Statistical models

Model 1

Model 2

Model 3

Model 4

Model 5

Model 6

Model 7

Model 8

Model 9

Model 10

Model 11

(Intercept)

-2.26\*\*\*

-2.47\*\*\*

-2.74\*\*\*

0.16\*\*\*

0.18\*\*\*

0.17\*\*\*

0.18\*\*\*

0.15\*\*\*

0.23\*\*\*

0.20\*\*\*

0.15\*\*\*

(0.12)

(0.15)

(0.18)

(0.01)

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.02)

ola2

0.13

0.14

0.17

0.02

0.02

0.03

0.01

0.02

-0.01

0.07\*

0.04\*

(0.11)

(0.11)

(0.11)

(0.01)

(0.01)

(0.02)

(0.02)

(0.01)

(0.02)

(0.03)

(0.02)

ola3

-0.98\*\*\*

-0.98\*\*\*

-0.94\*\*\*

-0.10\*\*\*

-0.10\*\*\*

-0.09\*\*\*

-0.07\*\*\*

-0.08\*\*\*

-0.19\*\*\*

-0.17\*\*\*

-0.08\*\*\*

(0.12)

(0.12)

(0.12)

(0.01)

(0.01)

(0.02)

(0.02)

(0.01)

(0.02)

(0.03)

(0.02)

ola4

-0.79\*\*\*

-0.79\*\*\*

-0.77\*\*\*

-0.08\*\*\*

-0.08\*\*\*

-0.04\*

-0.10\*\*\*

-0.01

-0.12\*\*\*

-0.07\*

0.01

(0.12)

(0.12)

(0.12)

(0.01)

(0.01)

(0.02)

(0.02)

(0.01)

(0.02)

(0.03)

(0.02)

ola5

-0.61\*\*\*

-0.62\*\*\*

-0.58\*\*\*

-0.06\*\*\*

-0.06\*\*\*

-0.06\*\*\*

-0.06\*\*\*

-0.01

-0.15\*\*\*

-0.05

-0.03

(0.12)

(0.12)

(0.12)

(0.01)

(0.01)

(0.02)

(0.02)

(0.01)

(0.02)

(0.03)

(0.02)

ola6

-1.33\*\*\*

-1.34\*\*\*

-1.29\*\*\*

-0.12\*\*\*

-0.12\*\*\*

-0.12\*\*\*

-0.14\*\*\*

-0.08\*\*\*

-0.16\*\*\*

-0.11\*\*

-0.09\*\*\*

(0.14)

(0.14)

(0.14)

(0.01)

(0.01)

(0.02)

(0.02)

(0.01)

(0.02)

(0.03)

(0.02)

ola7

-1.50\*\*\*

-1.52\*\*\*

-1.49\*\*\*

-0.13\*\*\*

-0.13\*\*\*

-0.13\*\*\*

-0.13\*\*\*

-0.10\*\*\*

-0.20\*\*\*

-0.14\*\*\*

-0.11\*\*\*

(0.13)

(0.13)

(0.13)

(0.01)

(0.01)

(0.02)

(0.02)

(0.01)

(0.02)

(0.03)

(0.02)

edadEntre 29 y 45

0.29

0.40\*

0.04\*\*

0.04\*\*

0.05\*

0.04\*\*

0.04\*\*

0.04\*\*

0.05

0.05

(0.18)

(0.18)

(0.01)

(0.01)

(0.02)

(0.01)

(0.01)

(0.01)

(0.04)

(0.03)

edadEntre 24 y 28

0.50

0.60\*

0.05\*

0.05\*

0.04

0.05\*

0.05\*

0.05\*

0.12\*

0.07

(0.27)

(0.27)

(0.02)

(0.02)

(0.03)

(0.02)

(0.02)

(0.02)

(0.06)

(0.05)

edadEntre 18 y 23

0.94\*\*\*

1.03\*\*\*

0.11\*\*\*

0.11\*\*\*

0.19\*\*\*

0.11\*\*\*

0.11\*\*\*

0.11\*\*\*

0.24\*\*\*

0.02

(0.27)

(0.27)

(0.02)

(0.02)

(0.03)

(0.02)

(0.02)

(0.02)

(0.07)

(0.05)

sexoMujer

0.32\*

0.02

0.02

0.02

0.02

0.02

0.02

0.02

0.02

(0.16)

(0.01)

(0.01)

(0.01)

(0.02)

(0.01)

(0.01)

(0.01)

(0.01)

educTécnica

-0.03

-0.03

-0.03

-0.03

-0.01

-0.03

-0.03

0.03

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.02)

(0.02)

(0.04)

educUniversitaria

-0.01

-0.01

-0.01

-0.01

0.09\*\*\*

-0.01

-0.01

0.04

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.04)

pos\_idCentro

-0.01

-0.01

-0.01

-0.01

-0.04

0.01

-0.01

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.04)

(0.02)

pos\_idDerecha

-0.03

-0.03

-0.03

-0.03

-0.07\*

-0.07

-0.03

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.04)

(0.02)

pos\_idNo se identifica

-0.02

-0.02

-0.02

-0.02

-0.12\*\*\*

-0.11\*\*

-0.02

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.02)

ola2:edadEntre 29 y 45

-0.08\*\*

-0.19\*\*\*

-0.11\*\*\*

(0.03)

(0.05)

(0.03)

ola3:edadEntre 29 y 45

-0.02

-0.07

-0.04

(0.03)

(0.05)

(0.03)

ola4:edadEntre 29 y 45

-0.02

0.00

-0.00

(0.03)

(0.05)

(0.03)

ola5:edadEntre 29 y 45

0.04

-0.08

0.07

(0.03)

(0.05)

(0.03)

ola6:edadEntre 29 y 45

0.02

-0.09

0.02

(0.03)

(0.05)

(0.03)

ola7:edadEntre 29 y 45

0.02

-0.01

0.01

(0.03)

(0.05)

(0.03)

ola2:edadEntre 24 y 28

0.04

-0.05

-0.08

(0.04)

(0.07)

(0.05)

ola3:edadEntre 24 y 28

0.03

0.02

0.01

(0.03)

(0.07)

(0.05)

ola4:edadEntre 24 y 28

-0.07\*

-0.18\*\*

-0.13\*

(0.04)

(0.06)

(0.05)

ola5:edadEntre 24 y 28

0.01

-0.15\*

0.07

(0.04)

(0.07)

(0.06)

ola6:edadEntre 24 y 28

0.03

-0.13\*

-0.03

(0.04)

(0.07)

(0.05)

ola7:edadEntre 24 y 28

0.01

-0.18\*\*

0.04

(0.04)

(0.07)

(0.05)

ola2:edadEntre 18 y 23

0.09\*

-0.13

0.25\*\*\*

(0.04)

(0.07)

(0.05)

ola3:edadEntre 18 y 23

-0.05

0.05

0.08

(0.04)

(0.07)

(0.05)

ola4:edadEntre 18 y 23

-0.21\*\*\*

-0.26\*\*\*

-0.03

(0.03)

(0.08)

(0.05)

ola5:edadEntre 18 y 23

-0.14\*\*\*

-0.40\*\*\*

-0.06

(0.03)

(0.07)

(0.05)

ola6:edadEntre 18 y 23

-0.10\*\*

-0.07

0.06

(0.03)

(0.07)

(0.05)

ola7:edadEntre 18 y 23

-0.08\*

-0.24\*\*\*

0.06

(0.03)

(0.07)

(0.05)

ola2:sexoMujer

0.02

(0.02)

ola3:sexoMujer

-0.04\*

(0.02)

ola4:sexoMujer

0.04\*

(0.02)

ola5:sexoMujer

-0.01

(0.02)

ola6:sexoMujer

0.03

(0.02)

ola7:sexoMujer

-0.01

(0.02)

ola2:educTécnica

0.07\*

-0.02

(0.03)

(0.04)

ola3:educTécnica

0.01

-0.02

(0.03)

(0.04)

ola4:educTécnica

-0.08\*\*

-0.12\*\*

(0.03)

(0.04)

ola5:educTécnica

-0.07\*

-0.07

(0.03)

(0.05)

ola6:educTécnica

-0.01

-0.09

(0.03)

(0.05)

ola7:educTécnica

-0.03

-0.05

(0.03)

(0.04)

ola2:educUniversitaria

-0.04

-0.05

(0.03)

(0.05)

ola3:educUniversitaria

-0.06\*

-0.04

(0.03)

(0.05)

ola4:educUniversitaria

-0.22\*\*\*

-0.17\*\*\*

(0.03)

(0.05)

ola5:educUniversitaria

-0.15\*\*\*

-0.12\*

(0.03)

(0.05)

ola6:educUniversitaria

-0.15\*\*\*

-0.09

(0.03)

(0.05)

ola7:educUniversitaria

-0.10\*\*\*

-0.08

(0.03)

(0.05)

ola2:pos\_idCentro

-0.00

-0.08

(0.03)

(0.04)

ola3:pos\_idCentro

0.09\*\*

0.06

(0.03)

(0.04)

ola4:pos\_idCentro

-0.01

-0.07

(0.03)

(0.05)

ola5:pos\_idCentro

0.09\*\*

-0.09

(0.03)

(0.05)

ola6:pos\_idCentro

0.01

-0.08

(0.03)

(0.05)

ola7:pos\_idCentro

0.06

-0.08

(0.03)

(0.05)

ola2:pos\_idDerecha

-0.00

-0.09

(0.04)

(0.05)

ola3:pos\_idDerecha

0.10\*\*

0.12\*

(0.04)

(0.05)

ola4:pos\_idDerecha

0.06

0.07

(0.04)

(0.05)

ola5:pos\_idDerecha

0.07

-0.06

(0.04)

(0.05)

ola6:pos\_idDerecha

0.02

0.00

(0.04)

(0.06)

ola7:pos\_idDerecha

0.07\*

0.02

(0.03)

(0.05)

ola2:pos\_idNo se identifica

0.09\*\*

-0.02

(0.03)

(0.04)

ola3:pos\_idNo se identifica

0.16\*\*\*

0.15\*\*\*

(0.03)

(0.04)

ola4:pos\_idNo se identifica

0.12\*\*\*

0.13\*\*

(0.03)

(0.04)

ola5:pos\_idNo se identifica

0.16\*\*\*

0.09\*

(0.03)

(0.05)

ola6:pos\_idNo se identifica

0.10\*\*\*

0.05

(0.03)

(0.05)

ola7:pos\_idNo se identifica

0.12\*\*\*

0.08

(0.03)

(0.04)

pos\_idCentro:edadEntre 29 y 45

-0.09

(0.06)

pos\_idDerecha:edadEntre 29 y 45

0.05

(0.07)

pos\_idNo se identifica:edadEntre 29 y 45

0.03

(0.06)

pos\_idCentro:edadEntre 24 y 28

-0.20\*

(0.09)

pos\_idDerecha:edadEntre 24 y 28

0.09

(0.11)

pos\_idNo se identifica:edadEntre 24 y 28

-0.11

(0.08)

pos\_idCentro:edadEntre 18 y 23

0.07

(0.09)

pos\_idDerecha:edadEntre 18 y 23

-0.15

(0.11)

pos\_idNo se identifica:edadEntre 18 y 23

-0.10

(0.08)

ola2:pos\_idCentro:edadEntre 29 y 45

0.13\*

(0.07)

ola3:pos\_idCentro:edadEntre 29 y 45

0.10

(0.07)

ola4:pos\_idCentro:edadEntre 29 y 45

0.14\*

(0.07)

ola5:pos\_idCentro:edadEntre 29 y 45

0.34\*\*\*

(0.07)

ola6:pos\_idCentro:edadEntre 29 y 45

0.30\*\*\*

(0.07)

ola7:pos\_idCentro:edadEntre 29 y 45

0.11

(0.07)

ola2:pos\_idDerecha:edadEntre 29 y 45

0.16\*

(0.08)

ola3:pos\_idDerecha:edadEntre 29 y 45

-0.00

(0.08)

ola4:pos\_idDerecha:edadEntre 29 y 45

-0.13

(0.08)

ola5:pos\_idDerecha:edadEntre 29 y 45

0.14

(0.08)

ola6:pos\_idDerecha:edadEntre 29 y 45

-0.01

(0.08)

ola7:pos\_idDerecha:edadEntre 29 y 45

0.05

(0.08)

ola2:pos\_idNo se identifica:edadEntre 29 y 45

0.15\*

(0.06)

ola3:pos\_idNo se identifica:edadEntre 29 y 45

0.10

(0.06)

ola4:pos\_idNo se identifica:edadEntre 29 y 45

-0.11

(0.07)

ola5:pos\_idNo se identifica:edadEntre 29 y 45

0.04

(0.07)

ola6:pos\_idNo se identifica:edadEntre 29 y 45

0.09

(0.07)

ola7:pos\_idNo se identifica:edadEntre 29 y 45

-0.00

(0.06)

ola2:pos\_idCentro:edadEntre 24 y 28

0.05

(0.10)

ola3:pos\_idCentro:edadEntre 24 y 28

0.13

(0.10)

ola4:pos\_idCentro:edadEntre 24 y 28

0.22\*

(0.10)

ola5:pos\_idCentro:edadEntre 24 y 28

0.45\*\*\*

(0.10)

ola6:pos\_idCentro:edadEntre 24 y 28

0.36\*\*\*

(0.11)

ola7:pos\_idCentro:edadEntre 24 y 28

0.29\*\*

(0.10)

ola2:pos\_idDerecha:edadEntre 24 y 28

-0.09

(0.12)

ola3:pos\_idDerecha:edadEntre 24 y 28

-0.26\*

(0.12)

ola4:pos\_idDerecha:edadEntre 24 y 28

-0.03

(0.12)

ola5:pos\_idDerecha:edadEntre 24 y 28

-0.05

(0.12)

ola6:pos\_idDerecha:edadEntre 24 y 28

0.08

(0.12)

ola7:pos\_idDerecha:edadEntre 24 y 28

0.09

(0.12)

ola2:pos\_idNo se identifica:edadEntre 24 y 28

0.23\*\*

(0.09)

ola3:pos\_idNo se identifica:edadEntre 24 y 28

0.01

(0.09)

ola4:pos\_idNo se identifica:edadEntre 24 y 28

0.15

(0.09)

ola5:pos\_idNo se identifica:edadEntre 24 y 28

0.15

(0.09)

ola6:pos\_idNo se identifica:edadEntre 24 y 28

0.19\*

(0.09)

ola7:pos\_idNo se identifica:edadEntre 24 y 28

0.28\*\*\*

(0.09)

ola2:pos\_idCentro:edadEntre 18 y 23

0.24\*

(0.10)

ola3:pos\_idCentro:edadEntre 18 y 23

-0.19

(0.10)

ola4:pos\_idCentro:edadEntre 18 y 23

-0.06

(0.10)

ola5:pos\_idCentro:edadEntre 18 y 23

0.17

(0.10)

ola6:pos\_idCentro:edadEntre 18 y 23

-0.16

(0.10)

ola7:pos\_idCentro:edadEntre 18 y 23

0.36\*\*\*

(0.09)

ola2:pos\_idDerecha:edadEntre 18 y 23

0.32\*\*

(0.12)

ola3:pos\_idDerecha:edadEntre 18 y 23

-0.01

(0.12)

ola4:pos\_idDerecha:edadEntre 18 y 23

0.24\*

(0.12)

ola5:pos\_idDerecha:edadEntre 18 y 23

0.58\*\*\*

(0.12)

ola6:pos\_idDerecha:edadEntre 18 y 23

0.10

(0.11)

ola7:pos\_idDerecha:edadEntre 18 y 23

0.19

(0.11)

ola2:pos\_idNo se identifica:edadEntre 18 y 23

0.30\*\*

(0.09)

ola3:pos\_idNo se identifica:edadEntre 18 y 23

-0.14

(0.09)

ola4:pos\_idNo se identifica:edadEntre 18 y 23

0.08

(0.10)

ola5:pos\_idNo se identifica:edadEntre 18 y 23

0.28\*\*

(0.09)

ola6:pos\_idNo se identifica:edadEntre 18 y 23

-0.01

(0.09)

ola7:pos\_idNo se identifica:edadEntre 18 y 23

0.11

(0.08)

educTécnica:edadEntre 29 y 45

-0.11

(0.06)

educUniversitaria:edadEntre 29 y 45

0.04

(0.06)

educTécnica:edadEntre 24 y 28

-0.11

(0.09)

educUniversitaria:edadEntre 24 y 28

-0.05

(0.07)

educTécnica:edadEntre 18 y 23

0.12

(0.09)

educUniversitaria:edadEntre 18 y 23

0.32\*\*\*

(0.08)

ola2:educTécnica:edadEntre 29 y 45

0.20\*\*

(0.07)

ola3:educTécnica:edadEntre 29 y 45

0.14\*

(0.07)

ola4:educTécnica:edadEntre 29 y 45

0.08

(0.07)

ola5:educTécnica:edadEntre 29 y 45

-0.03

(0.07)

ola6:educTécnica:edadEntre 29 y 45

0.09

(0.07)

ola7:educTécnica:edadEntre 29 y 45

0.16\*

(0.07)

ola2:educUniversitaria:edadEntre 29 y 45

0.00

(0.07)

ola3:educUniversitaria:edadEntre 29 y 45

0.01

(0.07)

ola4:educUniversitaria:edadEntre 29 y 45

-0.02

(0.07)

ola5:educUniversitaria:edadEntre 29 y 45

-0.01

(0.07)

ola6:educUniversitaria:edadEntre 29 y 45

-0.01

(0.07)

ola7:educUniversitaria:edadEntre 29 y 45

-0.01

(0.07)

ola2:educTécnica:edadEntre 24 y 28

0.22\*

(0.10)

ola3:educTécnica:edadEntre 24 y 28

0.06

(0.10)

ola4:educTécnica:edadEntre 24 y 28

0.20\*

(0.10)

ola5:educTécnica:edadEntre 24 y 28

-0.01

(0.10)

ola6:educTécnica:edadEntre 24 y 28

0.20

(0.10)

ola7:educTécnica:edadEntre 24 y 28

0.07

(0.10)

ola2:educUniversitaria:edadEntre 24 y 28

0.25\*\*

(0.08)

ola3:educUniversitaria:edadEntre 24 y 28

0.05

(0.08)

ola4:educUniversitaria:edadEntre 24 y 28

0.16

(0.08)

ola5:educUniversitaria:edadEntre 24 y 28

-0.04

(0.09)

ola6:educUniversitaria:edadEntre 24 y 28

0.12

(0.09)

ola7:educUniversitaria:edadEntre 24 y 28

-0.04

(0.08)

ola2:educTécnica:edadEntre 18 y 23

-0.11

(0.09)

ola3:educTécnica:edadEntre 18 y 23

-0.15

(0.09)

ola4:educTécnica:edadEntre 18 y 23

-0.05

(0.10)

ola5:educTécnica:edadEntre 18 y 23

0.02

(0.10)

ola6:educTécnica:edadEntre 18 y 23

0.12

(0.09)

ola7:educTécnica:edadEntre 18 y 23

-0.23\*\*

(0.09)

ola2:educUniversitaria:edadEntre 18 y 23

-0.30\*\*\*

(0.09)

ola3:educUniversitaria:edadEntre 18 y 23

-0.22\*\*

(0.08)

ola4:educUniversitaria:edadEntre 18 y 23

-0.30\*\*\*

(0.08)

ola5:educUniversitaria:edadEntre 18 y 23

-0.11

(0.08)

ola6:educUniversitaria:edadEntre 18 y 23

-0.33\*\*\*

(0.08)

ola7:educUniversitaria:edadEntre 18 y 23

-0.15

(0.08)

AIC

6596.23

6587.19

6585.03

23320.79

23343.46

23318.84

23370.85

23323.41

23415.33

23436.89

23418.57

BIC

6654.60

6667.45

6672.58

23430.23

23474.79

23581.51

23545.96

23542.30

23677.99

24290.55

24075.23

Log Likelihood

-3290.12

-3282.59

-3280.51

-11645.39

-11653.73

-11623.42

-11661.42

-11631.71

-11671.66

-11601.44

-11619.29

Num. obs.

10897

10897

10897

10897

10897

10897

10897

10897

10897

10897

10897

Num. groups: idencuesta

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

Var: idencuesta (Intercept)

2.81

2.77

2.73

0.02

0.02

0.02

0.02

0.02

0.02

0.02

0.02

Var: Residual

0.09

0.09

0.09

0.09

0.09

0.09

0.08

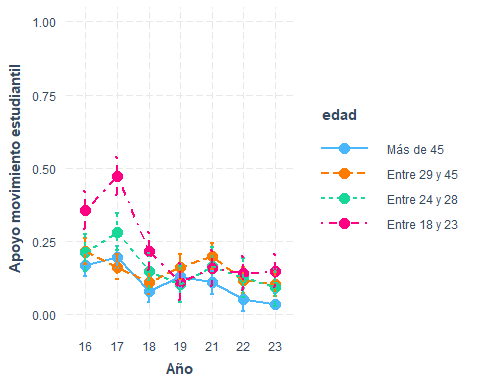
0.09

\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05

### interacciones

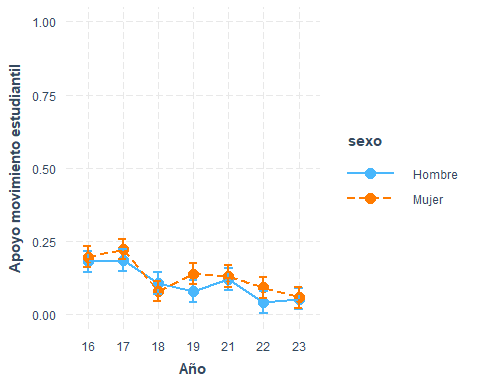
interact\_plot(marchar6, pred = ola, modx = edad, interval = TRUE)+  
 ylim(0,1)+  
 labs(y="Apoyo movimiento estudiantil", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



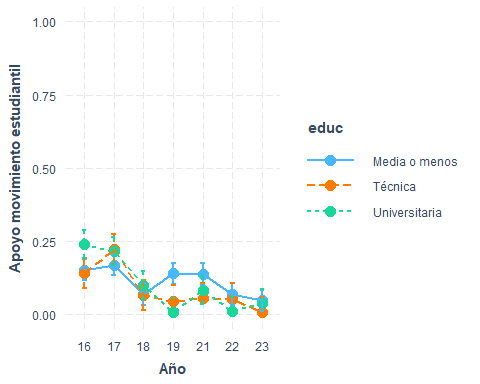
interact\_plot(marchar7, pred = ola, modx = sexo, interval = TRUE)+  
 ylim(0,1)+  
 labs(y="Apoyo movimiento estudiantil", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



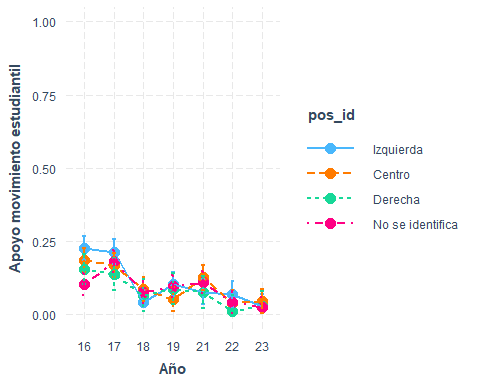
interact\_plot(marchar8, pred = ola, modx = educ, interval = TRUE)+  
 ylim(0,1)+  
 labs(y="Apoyo movimiento estudiantil", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

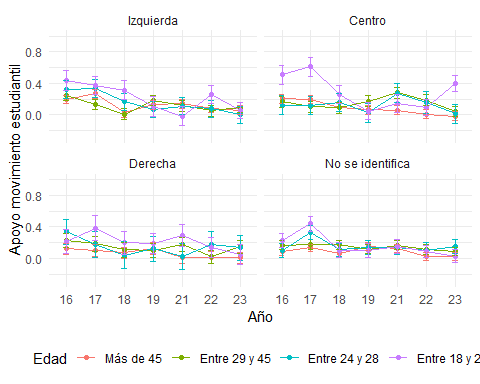


interact\_plot(marchar9, pred = ola, modx = pos\_id, interval = TRUE)+  
 ylim(0,1)+  
 labs(y="Apoyo movimiento estudiantil", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



preds <- ggpredict(marchar10, terms = c("ola", "edad", "pos\_id"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Apoyo movimiento estudiantil",  
 color = "Edad"  
 ) +  
 ylim(-0.3, 1) +  
 scale\_x\_discrete(labels = waves) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")

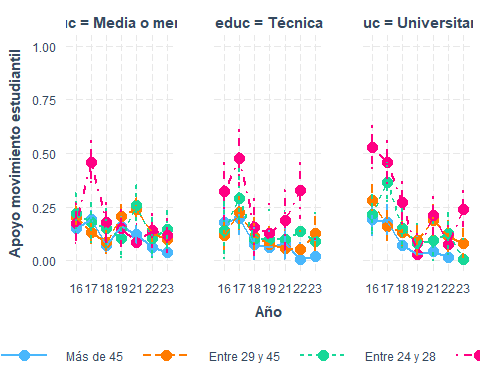


interact\_plot(marchar11, pred = ola, modx = edad, mod2 = educ, interval = TRUE)+  
 ylim(0,1)+  
 labs(y="Apoyo movimiento estudiantil", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

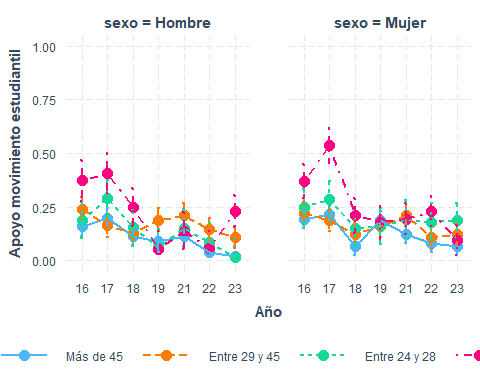
Warning: Removed 2 rows containing missing values or values outside the scale range  
(`geom\_point()`).

Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom\_path()`).



interact\_plot(marchar12, pred = ola, modx = edad, mod2 = sexo, interval = TRUE)+  
 ylim(0,1)+  
 labs(y="Apoyo movimiento estudiantil", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



## Participación electoral

Variables: - Participación elecciones 2013 (ola 1 y 2) - Participación elecciones 2017 (ola 3 y 4) - Participación en plebiscito nueva constitución (ola 5) - Participación elecciones 2021 primera vuelta (ola 6) - Participación elecciones 2021 segunda vuelta (ola 7)

#if (!require("pacman")) install.packages("pacman") # instalar pacman  
 # cargar librerias  
pacman::p\_load(dplyr, # Manipulacion de datos  
 knitr,  
 kableExtra,  
 summarytools,  
 lme4,  
 texreg  
 )  
load(file = here::here("input/data-proc/df\_study1\_long\_t7.RData"))  
  
# generate analytical sample  
df\_study1 <-   
 df\_study1\_long\_t7 %>%  
 select(idencuesta,ola,part\_electoral, edad, sexo, pos\_id, educ, universitaria, ponderador\_long\_total) %>%   
 na.omit() %>%   
 mutate(ola\_num=as.numeric(ola),  
 ola=as.factor(ola),  
 edad = case\_when(edad <=23~"Entre 18 y 23",  
 edad >23 & edad <=28 ~ "Entre 24 y 28",  
 edad >28 & edad <=45 ~ "Entre 29 y 45",  
 edad > 45 ~ "Más de 45"))   
df\_study1$edad <- factor(df\_study1$edad, levels = c("Más de 45", "Entre 29 y 45", "Entre 24 y 28", "Entre 18 y 23"))  
df\_study1$sexo <- factor(df\_study1$sexo, levels = c(1, 2), labels = c("Hombre", "Mujer"))  
  
df\_study1$part\_electoral <- factor(df\_study1$part\_electoral, levels = c(1,2),  
 labels = c("Si", "No"))  
df\_study1$part\_electoral <- car::recode(df\_study1$part\_electoral, c("1=2; 2=1"))  
df\_study1 <- df\_study1 %>%  
 dplyr::mutate(part\_electoral = ifelse(part\_electoral == "Si", 1, 0))  
  
  
marchar.null <- glmer(formula(paste0("part\_electoral~","1 + (1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total, family = "binomial")

Warning in eval(family$initialize, rho): non-integer #successes in a binomial  
glm!

marchar1 <- glmer(formula(paste0("part\_electoral~",h1,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total, family = "binomial")

Warning in eval(family$initialize, rho): non-integer #successes in a binomial  
glm!

marchar2 <- glmer(formula(paste0("part\_electoral~",h2,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total, family = "binomial")

Warning in eval(family$initialize, rho): non-integer #successes in a binomial  
glm!

Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv, :  
Model failed to converge with max|grad| = 0.647782 (tol = 0.002, component 1)

marchar3 <- glmer(formula(paste0("part\_electoral~",h3,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total, family = "binomial")

Warning in eval(family$initialize, rho): non-integer #successes in a binomial  
glm!

Warning in checkConv(attr(opt, "derivs"), opt$par, ctrl = control$checkConv, :  
Model failed to converge with max|grad| = 0.658587 (tol = 0.002, component 1)

marchar4 <- lmer(formula(paste0("part\_electoral~",h4,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar5 <- lmer(formula(paste0("part\_electoral~",h5,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar6 <- lmer(formula(paste0("part\_electoral~",h6,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar7 <- lmer(formula(paste0("part\_electoral~",h7,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar8 <- lmer(formula(paste0("part\_electoral~",h8,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar9 <- lmer(formula(paste0("part\_electoral~",h9,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar10 <- lmer(formula(paste0("part\_electoral~",h10,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar11 <- lmer(formula(paste0("part\_electoral~",h11,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar12 <- lmer(formula(paste0("part\_electoral~",h12,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)

texreg::knitreg(list(marchar1, marchar2, marchar3, marchar4, marchar5, marchar6, marchar7, marchar8, marchar9, marchar10, marchar11),  
 custom.note = "\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05")

Statistical models

Model 1

Model 2

Model 3

Model 4

Model 5

Model 6

Model 7

Model 8

Model 9

Model 10

Model 11

(Intercept)

1.54\*\*\*

2.20\*\*\*

2.22\*\*\*

0.69\*\*\*

0.73\*\*\*

0.84\*\*\*

0.72\*\*\*

0.76\*\*\*

0.73\*\*\*

0.81\*\*\*

0.87\*\*\*

(0.13)

(0.16)

(0.20)

(0.02)

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.03)

ola2

-0.06

-0.13

-0.12

-0.00

-0.00

0.00

0.00

-0.00

0.01

0.01

0.01

(0.12)

(0.12)

(0.12)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.02)

ola3

-0.04

-0.09

-0.10

-0.00

-0.00

-0.08\*\*\*

0.03

-0.05\*\*\*

0.03

-0.04

-0.10\*\*\*

(0.12)

(0.12)

(0.12)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.02)

ola4

-0.09

-0.12

-0.15

-0.01

-0.01

-0.09\*\*\*

0.03

-0.05\*\*\*

0.04

-0.04

-0.11\*\*\*

(0.12)

(0.12)

(0.12)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.02)

ola5

0.97\*\*\*

0.91\*\*\*

0.92\*\*\*

0.09\*\*\*

0.09\*\*\*

-0.16\*\*\*

0.08\*\*\*

0.04\*

0.09\*\*\*

-0.13\*\*\*

-0.20\*\*\*

(0.13)

(0.13)

(0.13)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.02)

ola6

1.56\*\*\*

1.51\*\*\*

1.50\*\*\*

0.15\*\*\*

0.15\*\*\*

-0.05\*\*

0.19\*\*\*

0.12\*\*\*

0.11\*\*\*

-0.03

-0.08\*\*\*

(0.13)

(0.13)

(0.13)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.02)

ola7

1.15\*\*\*

1.11\*\*\*

1.11\*\*\*

0.11\*\*\*

0.11\*\*\*

-0.09\*\*\*

0.14\*\*\*

0.08\*\*\*

0.09\*\*\*

-0.06

-0.11\*\*\*

(0.13)

(0.13)

(0.13)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.02)

edadEntre 29 y 45

-1.32\*\*\*

-1.31\*\*\*

-0.15\*\*\*

-0.15\*\*\*

-0.30\*\*\*

-0.15\*\*\*

-0.15\*\*\*

-0.15\*\*\*

-0.24\*\*\*

-0.34\*\*\*

(0.21)

(0.22)

(0.02)

(0.02)

(0.03)

(0.02)

(0.02)

(0.02)

(0.05)

(0.03)

edadEntre 24 y 28

-1.17\*\*\*

-1.22\*\*\*

-0.18\*\*\*

-0.17\*\*\*

-0.40\*\*\*

-0.17\*\*\*

-0.17\*\*\*

-0.17\*\*\*

-0.33\*\*\*

-0.54\*\*\*

(0.33)

(0.33)

(0.03)

(0.03)

(0.04)

(0.03)

(0.03)

(0.03)

(0.08)

(0.06)

edadEntre 18 y 23

-1.54\*\*\*

-1.55\*\*\*

-0.20\*\*\*

-0.19\*\*\*

-0.48\*\*\*

-0.19\*\*\*

-0.19\*\*\*

-0.20\*\*\*

-0.57\*\*\*

-0.67\*\*\*

(0.34)

(0.35)

(0.04)

(0.04)

(0.04)

(0.04)

(0.04)

(0.04)

(0.09)

(0.07)

sexoMujer

-0.03

0.01

0.01

0.01

0.04

0.01

0.01

0.01

0.01

(0.19)

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

educTécnica

0.06\*

0.05

0.06\*

0.05

-0.04

0.05

0.06\*

-0.06

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

educUniversitaria

0.18\*\*\*

0.16\*\*\*

0.17\*\*\*

0.16\*\*\*

0.11\*\*\*

0.16\*\*\*

0.17\*\*\*

0.02

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.03)

(0.02)

(0.05)

pos\_idCentro

-0.04

-0.04

-0.04

-0.04

-0.02

0.01

-0.04

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.03)

pos\_idDerecha

-0.01

-0.02

-0.01

-0.01

0.03

-0.02

-0.01

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.05)

(0.03)

pos\_idNo se identifica

-0.08\*\*

-0.08\*\*

-0.08\*\*

-0.07\*\*

-0.09\*\*

-0.04

-0.07\*\*

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.04)

(0.02)

ola2:edadEntre 29 y 45

-0.01

0.02

-0.02

(0.03)

(0.05)

(0.03)

ola3:edadEntre 29 y 45

0.11\*\*\*

0.06

0.06

(0.03)

(0.05)

(0.03)

ola4:edadEntre 29 y 45

0.13\*\*\*

0.09

0.11\*\*

(0.03)

(0.05)

(0.03)

ola5:edadEntre 29 y 45

0.32\*\*\*

0.34\*\*\*

0.36\*\*\*

(0.03)

(0.05)

(0.03)

ola6:edadEntre 29 y 45

0.30\*\*\*

0.22\*\*\*

0.30\*\*\*

(0.03)

(0.05)

(0.03)

ola7:edadEntre 29 y 45

0.31\*\*\*

0.28\*\*\*

0.32\*\*\*

(0.03)

(0.05)

(0.03)

ola2:edadEntre 24 y 28

-0.01

-0.02

-0.01

(0.04)

(0.07)

(0.05)

ola3:edadEntre 24 y 28

0.22\*\*\*

0.19\*\*

0.21\*\*\*

(0.04)

(0.07)

(0.05)

ola4:edadEntre 24 y 28

0.25\*\*\*

0.21\*\*

0.24\*\*\*

(0.04)

(0.07)

(0.05)

ola5:edadEntre 24 y 28

0.49\*\*\*

0.28\*\*\*

0.63\*\*\*

(0.04)

(0.07)

(0.06)

ola6:edadEntre 24 y 28

0.40\*\*\*

0.17\*

0.52\*\*\*

(0.04)

(0.07)

(0.06)

ola7:edadEntre 24 y 28

0.34\*\*\*

0.20\*\*

0.38\*\*\*

(0.04)

(0.07)

(0.06)

ola2:edadEntre 18 y 23

-0.01

-0.01

-0.03

(0.04)

(0.08)

(0.06)

ola3:edadEntre 18 y 23

0.20\*\*\*

0.35\*\*\*

0.27\*\*\*

(0.04)

(0.08)

(0.06)

ola4:edadEntre 18 y 23

0.16\*\*\*

0.21\*

0.26\*\*\*

(0.04)

(0.09)

(0.06)

ola5:edadEntre 18 y 23

0.65\*\*\*

0.72\*\*\*

0.87\*\*\*

(0.04)

(0.08)

(0.06)

ola6:edadEntre 18 y 23

0.44\*\*\*

0.53\*\*\*

0.63\*\*\*

(0.04)

(0.08)

(0.05)

ola7:edadEntre 18 y 23

0.48\*\*\*

0.41\*\*\*

0.65\*\*\*

(0.04)

(0.08)

(0.05)

ola2:sexoMujer

-0.01

(0.02)

ola3:sexoMujer

-0.06\*\*

(0.02)

ola4:sexoMujer

-0.08\*\*\*

(0.02)

ola5:sexoMujer

0.02

(0.02)

ola6:sexoMujer

-0.07\*\*

(0.02)

ola7:sexoMujer

-0.04

(0.02)

ola2:educTécnica

-0.03

-0.03

(0.03)

(0.04)

ola3:educTécnica

0.14\*\*\*

0.06

(0.03)

(0.05)

ola4:educTécnica

0.13\*\*\*

0.06

(0.03)

(0.05)

ola5:educTécnica

0.13\*\*\*

0.12\*

(0.03)

(0.05)

ola6:educTécnica

0.16\*\*\*

0.08

(0.03)

(0.05)

ola7:educTécnica

0.14\*\*\*

0.07

(0.03)

(0.05)

ola2:educUniversitaria

0.01

-0.00

(0.03)

(0.05)

ola3:educUniversitaria

0.11\*\*\*

0.06

(0.03)

(0.05)

ola4:educUniversitaria

0.08\*\*

0.05

(0.03)

(0.05)

ola5:educUniversitaria

0.11\*\*\*

0.15\*\*

(0.03)

(0.05)

ola6:educUniversitaria

0.03

0.10

(0.03)

(0.05)

ola7:educUniversitaria

0.04

0.07

(0.03)

(0.05)

ola2:pos\_idCentro

-0.02

-0.02

(0.03)

(0.04)

ola3:pos\_idCentro

-0.03

-0.09

(0.03)

(0.05)

ola4:pos\_idCentro

-0.05

-0.12\*

(0.03)

(0.05)

ola5:pos\_idCentro

-0.04

-0.07

(0.03)

(0.05)

ola6:pos\_idCentro

0.01

-0.06

(0.03)

(0.05)

ola7:pos\_idCentro

-0.02

-0.08

(0.03)

(0.05)

ola2:pos\_idDerecha

-0.02

0.00

(0.04)

(0.05)

ola3:pos\_idDerecha

-0.03

-0.00

(0.04)

(0.05)

ola4:pos\_idDerecha

-0.04

0.00

(0.04)

(0.06)

ola5:pos\_idDerecha

-0.11\*\*

-0.04

(0.04)

(0.06)

ola6:pos\_idDerecha

0.01

0.05

(0.04)

(0.06)

ola7:pos\_idDerecha

-0.11\*\*

0.00

(0.04)

(0.06)

ola2:pos\_idNo se identifica

-0.00

0.01

(0.03)

(0.04)

ola3:pos\_idNo se identifica

-0.07\*

-0.05

(0.03)

(0.04)

ola4:pos\_idNo se identifica

-0.09\*\*

-0.06

(0.03)

(0.05)

ola5:pos\_idNo se identifica

0.08\*\*

-0.01

(0.03)

(0.05)

ola6:pos\_idNo se identifica

0.10\*\*\*

-0.02

(0.03)

(0.05)

ola7:pos\_idNo se identifica

0.13\*\*\*

-0.03

(0.03)

(0.05)

pos\_idCentro:edadEntre 29 y 45

-0.06

(0.08)

pos\_idDerecha:edadEntre 29 y 45

0.05

(0.09)

pos\_idNo se identifica:edadEntre 29 y 45

-0.14

(0.07)

pos\_idCentro:edadEntre 24 y 28

-0.13

(0.12)

pos\_idDerecha:edadEntre 24 y 28

-0.01

(0.14)

pos\_idNo se identifica:edadEntre 24 y 28

-0.11

(0.11)

pos\_idCentro:edadEntre 18 y 23

0.05

(0.13)

pos\_idDerecha:edadEntre 18 y 23

0.29

(0.15)

pos\_idNo se identifica:edadEntre 18 y 23

0.11

(0.12)

ola2:pos\_idCentro:edadEntre 29 y 45

-0.01

(0.07)

ola3:pos\_idCentro:edadEntre 29 y 45

0.15\*

(0.07)

ola4:pos\_idCentro:edadEntre 29 y 45

0.13

(0.07)

ola5:pos\_idCentro:edadEntre 29 y 45

-0.02

(0.08)

ola6:pos\_idCentro:edadEntre 29 y 45

0.08

(0.07)

ola7:pos\_idCentro:edadEntre 29 y 45

-0.02

(0.07)

ola2:pos\_idDerecha:edadEntre 29 y 45

-0.06

(0.08)

ola3:pos\_idDerecha:edadEntre 29 y 45

0.00

(0.08)

ola4:pos\_idDerecha:edadEntre 29 y 45

-0.05

(0.09)

ola5:pos\_idDerecha:edadEntre 29 y 45

-0.15

(0.09)

ola6:pos\_idDerecha:edadEntre 29 y 45

-0.15

(0.09)

ola7:pos\_idDerecha:edadEntre 29 y 45

-0.18\*

(0.09)

ola2:pos\_idNo se identifica:edadEntre 29 y 45

-0.05

(0.07)

ola3:pos\_idNo se identifica:edadEntre 29 y 45

0.04

(0.07)

ola4:pos\_idNo se identifica:edadEntre 29 y 45

0.04

(0.07)

ola5:pos\_idNo se identifica:edadEntre 29 y 45

0.03

(0.07)

ola6:pos\_idNo se identifica:edadEntre 29 y 45

0.28\*\*\*

(0.07)

ola7:pos\_idNo se identifica:edadEntre 29 y 45

0.20\*\*

(0.07)

ola2:pos\_idCentro:edadEntre 24 y 28

0.00

(0.10)

ola3:pos\_idCentro:edadEntre 24 y 28

0.27\*\*

(0.10)

ola4:pos\_idCentro:edadEntre 24 y 28

0.28\*\*

(0.10)

ola5:pos\_idCentro:edadEntre 24 y 28

0.31\*\*

(0.10)

ola6:pos\_idCentro:edadEntre 24 y 28

0.47\*\*\*

(0.11)

ola7:pos\_idCentro:edadEntre 24 y 28

0.48\*\*\*

(0.11)

ola2:pos\_idDerecha:edadEntre 24 y 28

-0.02

(0.12)

ola3:pos\_idDerecha:edadEntre 24 y 28

-0.15

(0.13)

ola4:pos\_idDerecha:edadEntre 24 y 28

-0.16

(0.13)

ola5:pos\_idDerecha:edadEntre 24 y 28

0.04

(0.13)

ola6:pos\_idDerecha:edadEntre 24 y 28

-0.01

(0.13)

ola7:pos\_idDerecha:edadEntre 24 y 28

-0.15

(0.14)

ola2:pos\_idNo se identifica:edadEntre 24 y 28

0.03

(0.09)

ola3:pos\_idNo se identifica:edadEntre 24 y 28

-0.03

(0.09)

ola4:pos\_idNo se identifica:edadEntre 24 y 28

-0.03

(0.09)

ola5:pos\_idNo se identifica:edadEntre 24 y 28

0.42\*\*\*

(0.10)

ola6:pos\_idNo se identifica:edadEntre 24 y 28

0.38\*\*\*

(0.09)

ola7:pos\_idNo se identifica:edadEntre 24 y 28

0.16

(0.09)

ola2:pos\_idCentro:edadEntre 18 y 23

0.02

(0.11)

ola3:pos\_idCentro:edadEntre 18 y 23

-0.10

(0.11)

ola4:pos\_idCentro:edadEntre 18 y 23

0.07

(0.11)

ola5:pos\_idCentro:edadEntre 18 y 23

0.00

(0.11)

ola6:pos\_idCentro:edadEntre 18 y 23

-0.04

(0.10)

ola7:pos\_idCentro:edadEntre 18 y 23

0.09

(0.10)

ola2:pos\_idDerecha:edadEntre 18 y 23

-0.06

(0.14)

ola3:pos\_idDerecha:edadEntre 18 y 23

-0.16

(0.13)

ola4:pos\_idDerecha:edadEntre 18 y 23

-0.01

(0.13)

ola5:pos\_idDerecha:edadEntre 18 y 23

-0.29\*

(0.14)

ola6:pos\_idDerecha:edadEntre 18 y 23

-0.09

(0.13)

ola7:pos\_idDerecha:edadEntre 18 y 23

-0.28\*

(0.13)

ola2:pos\_idNo se identifica:edadEntre 18 y 23

-0.00

(0.10)

ola3:pos\_idNo se identifica:edadEntre 18 y 23

-0.28\*\*

(0.10)

ola4:pos\_idNo se identifica:edadEntre 18 y 23

-0.21\*

(0.11)

ola5:pos\_idNo se identifica:edadEntre 18 y 23

-0.09

(0.10)

ola6:pos\_idNo se identifica:edadEntre 18 y 23

-0.15

(0.10)

ola7:pos\_idNo se identifica:edadEntre 18 y 23

0.19\*

(0.10)

educTécnica:edadEntre 29 y 45

0.16\*

(0.07)

educUniversitaria:edadEntre 29 y 45

0.14\*

(0.07)

educTécnica:edadEntre 24 y 28

0.15

(0.12)

educUniversitaria:edadEntre 24 y 28

0.39\*\*\*

(0.10)

educTécnica:edadEntre 18 y 23

0.18

(0.12)

educUniversitaria:edadEntre 18 y 23

0.52\*\*\*

(0.10)

ola2:educTécnica:edadEntre 29 y 45

0.01

(0.07)

ola3:educTécnica:edadEntre 29 y 45

0.01

(0.07)

ola4:educTécnica:edadEntre 29 y 45

-0.02

(0.07)

ola5:educTécnica:edadEntre 29 y 45

-0.18\*

(0.07)

ola6:educTécnica:edadEntre 29 y 45

-0.03

(0.07)

ola7:educTécnica:edadEntre 29 y 45

-0.12

(0.07)

ola2:educUniversitaria:edadEntre 29 y 45

0.03

(0.07)

ola3:educUniversitaria:edadEntre 29 y 45

0.12

(0.07)

ola4:educUniversitaria:edadEntre 29 y 45

0.08

(0.07)

ola5:educUniversitaria:edadEntre 29 y 45

-0.08

(0.07)

ola6:educUniversitaria:edadEntre 29 y 45

-0.04

(0.07)

ola7:educUniversitaria:edadEntre 29 y 45

-0.01

(0.07)

ola2:educTécnica:edadEntre 24 y 28

0.01

(0.10)

ola3:educTécnica:edadEntre 24 y 28

0.15

(0.10)

ola4:educTécnica:edadEntre 24 y 28

0.16

(0.10)

ola5:educTécnica:edadEntre 24 y 28

0.04

(0.11)

ola6:educTécnica:edadEntre 24 y 28

0.12

(0.11)

ola7:educTécnica:edadEntre 24 y 28

0.29\*\*

(0.11)

ola2:educUniversitaria:edadEntre 24 y 28

-0.01

(0.09)

ola3:educUniversitaria:edadEntre 24 y 28

-0.07

(0.08)

ola4:educUniversitaria:edadEntre 24 y 28

-0.08

(0.09)

ola5:educUniversitaria:edadEntre 24 y 28

-0.43\*\*\*

(0.09)

ola6:educUniversitaria:edadEntre 24 y 28

-0.40\*\*\*

(0.09)

ola7:educUniversitaria:edadEntre 24 y 28

-0.26\*\*

(0.09)

ola2:educTécnica:edadEntre 18 y 23

0.03

(0.10)

ola3:educTécnica:edadEntre 18 y 23

0.11

(0.10)

ola4:educTécnica:edadEntre 18 y 23

0.08

(0.10)

ola5:educTécnica:edadEntre 18 y 23

0.01

(0.10)

ola6:educTécnica:edadEntre 18 y 23

0.10

(0.10)

ola7:educTécnica:edadEntre 18 y 23

0.14

(0.10)

ola2:educUniversitaria:edadEntre 18 y 23

0.07

(0.09)

ola3:educUniversitaria:edadEntre 18 y 23

-0.28\*\*

(0.09)

ola4:educUniversitaria:edadEntre 18 y 23

-0.31\*\*\*

(0.09)

ola5:educUniversitaria:edadEntre 18 y 23

-0.63\*\*\*

(0.09)

ola6:educUniversitaria:edadEntre 18 y 23

-0.56\*\*\*

(0.09)

ola7:educUniversitaria:edadEntre 18 y 23

-0.53\*\*\*

(0.09)

AIC

7501.84

7463.78

7465.76

24958.23

24970.54

24332.44

24985.93

24977.84

24943.77

24390.82

24320.14

BIC

7559.99

7543.74

7552.99

25067.27

25101.38

24594.13

25160.38

25195.91

25205.45

25241.29

24974.35

Log Likelihood

-3742.92

-3720.89

-3720.88

-12464.12

-12467.27

-12130.22

-12468.96

-12458.92

-12435.89

-12078.41

-12070.07

Num. obs.

10604

10604

10604

10604

10604

10604

10604

10604

10604

10604

10604

Num. groups: idencuesta

1704

1704

1704

1704

1704

1704

1704

1704

1704

1704

1704

Var: idencuesta (Intercept)

5.37

5.16

5.21

0.08

0.08

0.08

0.08

0.08

0.08

0.08

0.07

Var: Residual

0.10

0.10

0.09

0.10

0.10

0.10

0.09

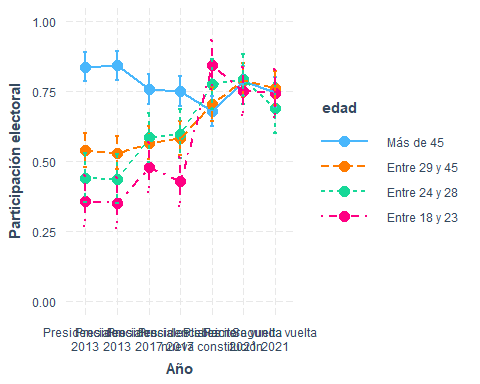
0.09

\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05

### interacciones

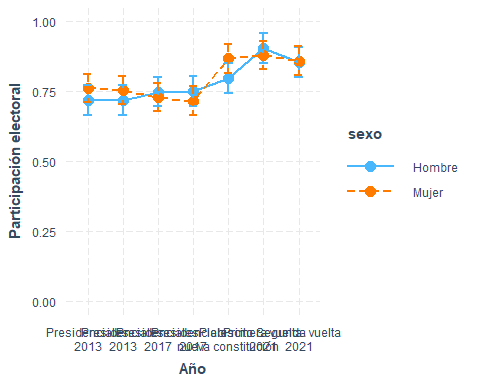
elecciones<- c("Presidenciales  
2013", "Presidenciales  
2013", "Presidenciales  
2017", "Presidenciales  
2017", "Plebiscito   
nueva constitución","Primera vuelta  
2021", "Segunda vuelta  
2021")  
  
interact\_plot(marchar6, pred = ola, modx = edad, interval = TRUE)+  
 ylim(0,1)+  
 labs(y="Participación electoral", x="Año")+  
 scale\_x\_discrete(labels = elecciones)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



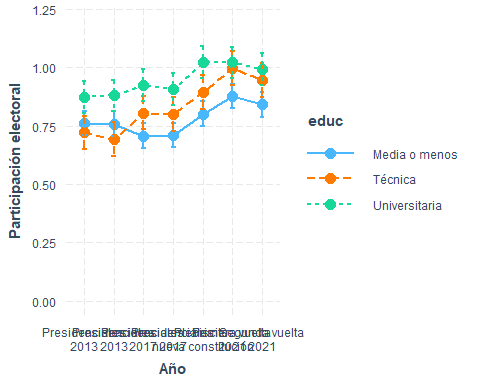
interact\_plot(marchar7, pred = ola, modx = sexo, interval = TRUE)+  
 ylim(0,1)+  
 labs(y="Participación electoral", x="Año")+  
 scale\_x\_discrete(labels = elecciones)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



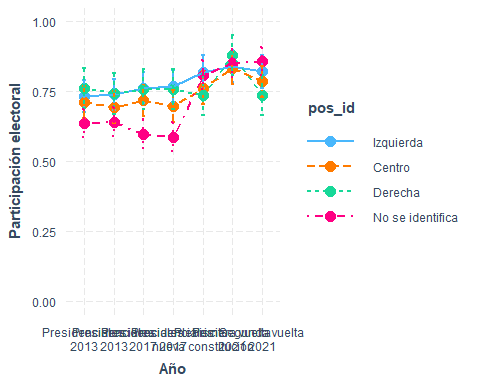
interact\_plot(marchar8, pred = ola, modx = educ, interval = TRUE)+  
 ylim(0,1.2)+  
 labs(y="Participación electoral", x="Año")+  
 scale\_x\_discrete(labels = elecciones)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

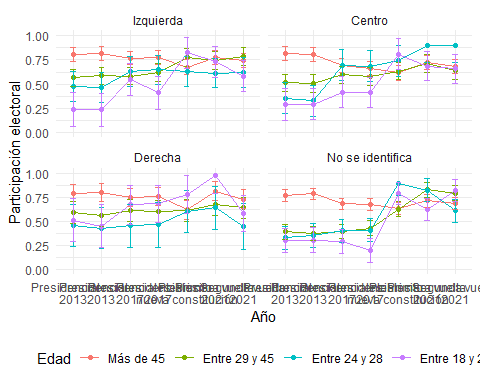


interact\_plot(marchar9, pred = ola, modx = pos\_id, interval = TRUE)+  
 ylim(0,1)+  
 labs(y="Participación electoral", x="Año")+  
 scale\_x\_discrete(labels = elecciones)

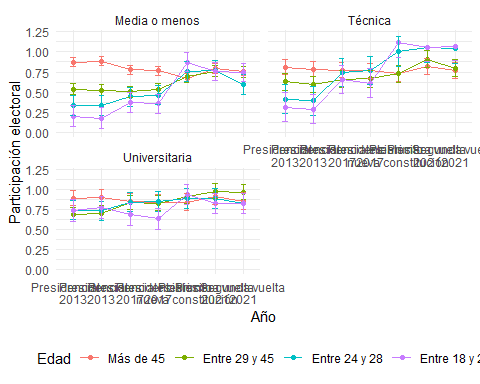
✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



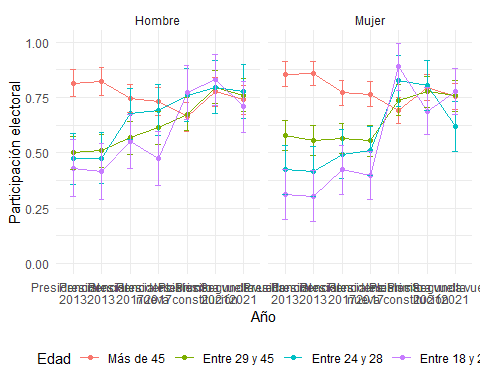
preds <- ggpredict(marchar10, terms = c("ola", "edad", "pos\_id"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Participación electoral",  
 color = "Edad"  
 ) +  
 ylim(0, 1) +  
 scale\_x\_discrete(labels = elecciones) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")



preds <- ggpredict(marchar11, terms = c("ola", "edad", "educ"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Participación electoral",  
 color = "Edad"  
 ) +  
 ylim(0, 1.2) +  
 scale\_x\_discrete(labels = elecciones) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")



preds <- ggpredict(marchar12, terms = c("ola", "edad", "sexo"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Participación electoral",  
 color = "Edad"  
 ) +  
 ylim(0, 1) +  
 scale\_x\_discrete(labels = elecciones) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")



## Autoritarismo (casi todas las olas)

load(file = here::here("input/data-proc/df\_study1\_long\_t7.RData"))  
  
df\_study1 <- df\_study1\_long\_t7 %>% dplyr::select(idencuesta,ola, segmento, estrato, ponderador\_long\_total, sexo, pos\_id, educ, universitaria,  
 autoritarismo1, autoritarismo2, autoritarismo3, autoritarismo4, autoritarismo5,  
 edad) %>% na.omit()  
  
df\_study1 <- df\_study1 %>%   
 rowwise() %>%  
 mutate(autoritarismo = mean(c(autoritarismo1:autoritarismo4, na.rm=TRUE))) %>%   
 ungroup()

df\_study1 <- df\_study1 %>%   
 rowwise() %>%  
 mutate(ola\_num=as.numeric(ola),  
 ola=as.factor(ola),  
 edad = case\_when(edad <=23~"Entre 18 y 23",  
 edad >23 & edad <=28 ~ "Entre 24 y 28",  
 edad >28 & edad <=45 ~ "Entre 29 y 45",  
 edad > 45 ~ "Más de 45"))   
df\_study1$edad <- factor(df\_study1$edad, levels = c("Más de 45", "Entre 29 y 45", "Entre 24 y 28", "Entre 18 y 23"))  
df\_study1$sexo <- factor(df\_study1$sexo, levels = c(1, 2), labels = c("Hombre", "Mujer"))  
  
marchar.null <- lmer(formula(paste0("autoritarismo~","1 + (1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar1 <- lmer(formula(paste0("autoritarismo~",h1,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar2 <- lmer(formula(paste0("autoritarismo~",h2,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar3 <- lmer(formula(paste0("autoritarismo~",h3,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar4 <- lmer(formula(paste0("autoritarismo~",h4,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar5 <- lmer(formula(paste0("autoritarismo~",h5,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar6 <- lmer(formula(paste0("autoritarismo~",h6,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar7 <- lmer(formula(paste0("autoritarismo~",h7,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar8 <- lmer(formula(paste0("autoritarismo~",h8,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar9 <- lmer(formula(paste0("autoritarismo~",h9,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar10 <- lmer(formula(paste0("autoritarismo~",h10,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar11 <- lmer(formula(paste0("autoritarismo~",h11,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar12 <- lmer(formula(paste0("autoritarismo~",h12,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)

texreg::knitreg(list(marchar1, marchar2, marchar3, marchar4, marchar5, marchar6, marchar7, marchar8, marchar9, marchar10, marchar11),  
 custom.note = "\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05")

Statistical models

Model 1

Model 2

Model 3

Model 4

Model 5

Model 6

Model 7

Model 8

Model 9

Model 10

Model 11

(Intercept)

2.49\*\*\*

2.56\*\*\*

2.55\*\*\*

2.63\*\*\*

2.49\*\*\*

2.49\*\*\*

2.51\*\*\*

2.48\*\*\*

2.48\*\*\*

2.57\*\*\*

2.49\*\*\*

(0.01)

(0.02)

(0.02)

(0.02)

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.03)

ola2

0.03\*

0.03\*

0.03\*

0.03\*

0.03\*

0.02

-0.02

0.05\*

0.09\*\*\*

-0.04

0.02

(0.01)

(0.01)

(0.01)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.03)

(0.04)

(0.02)

ola3

0.03\*

0.03\*

0.03\*

0.03\*

0.03\*

0.01

0.00

0.05\*

0.10\*\*\*

-0.01

0.02

(0.01)

(0.01)

(0.01)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.03)

(0.04)

(0.03)

ola4

-0.10\*\*\*

-0.10\*\*\*

-0.10\*\*\*

-0.10\*\*\*

-0.10\*\*\*

-0.11\*\*\*

-0.12\*\*\*

-0.05\*\*

-0.17\*\*\*

-0.29\*\*\*

-0.11\*\*\*

(0.01)

(0.01)

(0.01)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.03)

(0.04)

(0.03)

ola5

0.02

0.02

0.02

0.02

0.02

0.01

-0.01

0.04

0.04

-0.07

-0.00

(0.01)

(0.01)

(0.01)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.03)

(0.04)

(0.03)

ola6

0.02

0.02

0.02

0.02

0.02

0.01

-0.01

0.03

0.02

-0.07

-0.00

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.05)

(0.03)

ola7

0.07\*\*\*

0.08\*\*\*

0.08\*\*\*

0.08\*\*\*

0.08\*\*\*

0.13\*\*\*

0.06\*\*

0.09\*\*\*

0.11\*\*\*

0.10\*

0.13\*\*\*

(0.01)

(0.01)

(0.01)

(0.01)

(0.01)

(0.02)

(0.02)

(0.02)

(0.03)

(0.04)

(0.03)

edadEntre 29 y 45

-0.10\*\*\*

-0.10\*\*\*

-0.05\*

-0.05\*

-0.07\*

-0.05\*

-0.06\*

-0.06\*

-0.23\*\*\*

-0.08\*

(0.03)

(0.03)

(0.02)

(0.02)

(0.03)

(0.02)

(0.02)

(0.02)

(0.06)

(0.04)

edadEntre 24 y 28

-0.23\*\*\*

-0.23\*\*\*

-0.13\*\*

-0.13\*\*

-0.08

-0.12\*\*

-0.12\*\*

-0.13\*\*

-0.17

-0.07

(0.04)

(0.04)

(0.04)

(0.04)

(0.05)

(0.04)

(0.04)

(0.04)

(0.10)

(0.07)

edadEntre 18 y 23

-0.21\*\*\*

-0.21\*\*\*

-0.12\*\*

-0.12\*\*

-0.13\*

-0.12\*\*

-0.12\*\*

-0.12\*\*

-0.49\*\*\*

-0.17\*

(0.04)

(0.04)

(0.04)

(0.04)

(0.05)

(0.04)

(0.04)

(0.04)

(0.10)

(0.07)

sexoMujer

0.01

-0.01

-0.02

-0.02

-0.06\*

-0.02

-0.02

-0.01

-0.02

(0.02)

(0.02)

(0.02)

(0.02)

(0.03)

(0.02)

(0.02)

(0.02)

(0.02)

educTécnica

-0.13\*\*\*

-0.13\*\*\*

-0.13\*\*\*

-0.13\*\*\*

-0.11\*\*

-0.13\*\*\*

-0.13\*\*\*

-0.12\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.03)

(0.03)

(0.06)

educUniversitaria

-0.36\*\*\*

-0.37\*\*\*

-0.37\*\*\*

-0.37\*\*\*

-0.32\*\*\*

-0.37\*\*\*

-0.37\*\*\*

-0.31\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.03)

(0.03)

(0.06)

pos\_idCentro

0.17\*\*\*

0.17\*\*\*

0.17\*\*\*

0.17\*\*\*

0.19\*\*\*

0.04

0.16\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.05)

(0.03)

pos\_idDerecha

0.30\*\*\*

0.30\*\*\*

0.30\*\*\*

0.30\*\*\*

0.35\*\*\*

0.24\*\*\*

0.29\*\*\*

(0.03)

(0.03)

(0.04)

(0.03)

(0.05)

(0.06)

(0.03)

pos\_idNo se identifica

0.15\*\*\*

0.15\*\*\*

0.15\*\*\*

0.15\*\*\*

0.17\*\*\*

0.03

0.15\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.05)

(0.03)

ola2:edadEntre 29 y 45

0.04

0.20\*\*

0.13\*\*

(0.03)

(0.06)

(0.04)

ola3:edadEntre 29 y 45

0.02

0.16\*\*

0.05

(0.03)

(0.06)

(0.04)

ola4:edadEntre 29 y 45

0.02

0.09

0.09\*

(0.03)

(0.06)

(0.04)

ola5:edadEntre 29 y 45

0.06

0.11

0.14\*\*

(0.03)

(0.07)

(0.04)

ola6:edadEntre 29 y 45

0.07

0.05

0.14\*\*

(0.04)

(0.07)

(0.05)

ola7:edadEntre 29 y 45

-0.07\*

-0.02

-0.05

(0.03)

(0.06)

(0.04)

ola2:edadEntre 24 y 28

-0.11\*

0.11

-0.24\*\*\*

(0.05)

(0.09)

(0.07)

ola3:edadEntre 24 y 28

0.05

0.26\*\*

0.09

(0.05)

(0.09)

(0.07)

ola4:edadEntre 24 y 28

0.00

0.35\*\*\*

0.19\*\*

(0.05)

(0.08)

(0.07)

ola5:edadEntre 24 y 28

-0.14\*\*

0.17

-0.03

(0.05)

(0.09)

(0.07)

ola6:edadEntre 24 y 28

-0.16\*\*

0.13

-0.11

(0.05)

(0.09)

(0.07)

ola7:edadEntre 24 y 28

-0.05

0.20\*

-0.08

(0.05)

(0.09)

(0.07)

ola2:edadEntre 18 y 23

0.09

0.52\*\*\*

0.06

(0.05)

(0.09)

(0.07)

ola3:edadEntre 18 y 23

0.05

0.23\*

0.05

(0.05)

(0.09)

(0.07)

ola4:edadEntre 18 y 23

0.03

0.40\*\*\*

0.10

(0.05)

(0.10)

(0.07)

ola5:edadEntre 18 y 23

0.02

0.45\*\*\*

-0.02

(0.05)

(0.10)

(0.07)

ola6:edadEntre 18 y 23

0.04

0.47\*\*\*

-0.01

(0.05)

(0.09)

(0.07)

ola7:edadEntre 18 y 23

-0.10\*

0.09

-0.10

(0.04)

(0.09)

(0.06)

ola2:sexoMujer

0.10\*\*\*

(0.03)

ola3:sexoMujer

0.05

(0.03)

ola4:sexoMujer

0.03

(0.03)

ola5:sexoMujer

0.04

(0.03)

ola6:sexoMujer

0.04

(0.03)

ola7:sexoMujer

0.03

(0.03)

ola2:educTécnica

-0.01

-0.03

(0.04)

(0.06)

ola3:educTécnica

0.02

0.00

(0.04)

(0.06)

ola4:educTécnica

-0.09\*

0.07

(0.04)

(0.06)

ola5:educTécnica

-0.05

0.10

(0.04)

(0.06)

ola6:educTécnica

-0.05

0.08

(0.04)

(0.06)

ola7:educTécnica

0.03

-0.01

(0.04)

(0.06)

ola2:educUniversitaria

-0.04

0.08

(0.03)

(0.06)

ola3:educUniversitaria

-0.08\*

-0.07

(0.03)

(0.06)

ola4:educUniversitaria

-0.13\*\*\*

-0.08

(0.03)

(0.06)

ola5:educUniversitaria

-0.04

-0.02

(0.03)

(0.07)

ola6:educUniversitaria

-0.03

-0.03

(0.04)

(0.07)

ola7:educUniversitaria

-0.06

0.03

(0.03)

(0.06)

ola2:pos\_idCentro

-0.04

0.10

(0.04)

(0.06)

ola3:pos\_idCentro

-0.09\*

0.06

(0.04)

(0.06)

ola4:pos\_idCentro

0.08

0.20\*\*\*

(0.04)

(0.06)

ola5:pos\_idCentro

-0.03

0.11

(0.04)

(0.06)

ola6:pos\_idCentro

-0.01

0.10

(0.04)

(0.06)

ola7:pos\_idCentro

0.00

0.09

(0.04)

(0.06)

ola2:pos\_idDerecha

-0.07

0.02

(0.05)

(0.07)

ola3:pos\_idDerecha

-0.21\*\*\*

-0.07

(0.05)

(0.07)

ola4:pos\_idDerecha

0.13\*\*

0.25\*\*\*

(0.05)

(0.07)

ola5:pos\_idDerecha

-0.02

0.12

(0.05)

(0.07)

ola6:pos\_idDerecha

0.01

0.10

(0.05)

(0.07)

ola7:pos\_idDerecha

-0.15\*\*\*

-0.05

(0.05)

(0.07)

ola2:pos\_idNo se identifica

-0.12\*\*

0.10

(0.04)

(0.05)

ola3:pos\_idNo se identifica

-0.05

0.06

(0.04)

(0.06)

ola4:pos\_idNo se identifica

0.09\*

0.29\*\*\*

(0.04)

(0.06)

ola5:pos\_idNo se identifica

-0.03

0.10

(0.04)

(0.06)

ola6:pos\_idNo se identifica

0.00

0.12\*

(0.04)

(0.06)

ola7:pos\_idNo se identifica

-0.02

0.06

(0.04)

(0.06)

pos\_idCentro:edadEntre 29 y 45

0.28\*\*

(0.09)

pos\_idDerecha:edadEntre 29 y 45

0.15

(0.10)

pos\_idNo se identifica:edadEntre 29 y 45

0.20\*

(0.08)

pos\_idCentro:edadEntre 24 y 28

0.23

(0.14)

pos\_idDerecha:edadEntre 24 y 28

-0.04

(0.17)

pos\_idNo se identifica:edadEntre 24 y 28

0.15

(0.12)

pos\_idCentro:edadEntre 18 y 23

0.29\*

(0.15)

pos\_idDerecha:edadEntre 18 y 23

0.56\*\*\*

(0.17)

pos\_idNo se identifica:edadEntre 18 y 23

0.55\*\*\*

(0.13)

ola2:pos\_idCentro:edadEntre 29 y 45

-0.24\*\*

(0.09)

ola3:pos\_idCentro:edadEntre 29 y 45

-0.24\*\*

(0.09)

ola4:pos\_idCentro:edadEntre 29 y 45

-0.02

(0.09)

ola5:pos\_idCentro:edadEntre 29 y 45

-0.10

(0.10)

ola6:pos\_idCentro:edadEntre 29 y 45

-0.03

(0.10)

ola7:pos\_idCentro:edadEntre 29 y 45

-0.13

(0.09)

ola2:pos\_idDerecha:edadEntre 29 y 45

-0.15

(0.11)

ola3:pos\_idDerecha:edadEntre 29 y 45

-0.20

(0.11)

ola4:pos\_idDerecha:edadEntre 29 y 45

-0.14

(0.11)

ola5:pos\_idDerecha:edadEntre 29 y 45

-0.07

(0.11)

ola6:pos\_idDerecha:edadEntre 29 y 45

0.00

(0.11)

ola7:pos\_idDerecha:edadEntre 29 y 45

-0.04

(0.10)

ola2:pos\_idNo se identifica:edadEntre 29 y 45

-0.24\*\*

(0.08)

ola3:pos\_idNo se identifica:edadEntre 29 y 45

-0.18\*

(0.08)

ola4:pos\_idNo se identifica:edadEntre 29 y 45

-0.15

(0.09)

ola5:pos\_idNo se identifica:edadEntre 29 y 45

-0.03

(0.09)

ola6:pos\_idNo se identifica:edadEntre 29 y 45

0.05

(0.09)

ola7:pos\_idNo se identifica:edadEntre 29 y 45

-0.04

(0.09)

ola2:pos\_idCentro:edadEntre 24 y 28

-0.17

(0.13)

ola3:pos\_idCentro:edadEntre 24 y 28

-0.32\*

(0.13)

ola4:pos\_idCentro:edadEntre 24 y 28

-0.67\*\*\*

(0.13)

ola5:pos\_idCentro:edadEntre 24 y 28

-0.51\*\*\*

(0.13)

ola6:pos\_idCentro:edadEntre 24 y 28

-0.62\*\*\*

(0.14)

ola7:pos\_idCentro:edadEntre 24 y 28

-0.19

(0.13)

ola2:pos\_idDerecha:edadEntre 24 y 28

-0.03

(0.16)

ola3:pos\_idDerecha:edadEntre 24 y 28

-0.23

(0.16)

ola4:pos\_idDerecha:edadEntre 24 y 28

0.04

(0.16)

ola5:pos\_idDerecha:edadEntre 24 y 28

-0.24

(0.16)

ola6:pos\_idDerecha:edadEntre 24 y 28

-0.16

(0.17)

ola7:pos\_idDerecha:edadEntre 24 y 28

-0.48\*\*

(0.16)

ola2:pos\_idNo se identifica:edadEntre 24 y 28

-0.50\*\*\*

(0.12)

ola3:pos\_idNo se identifica:edadEntre 24 y 28

-0.34\*\*

(0.11)

ola4:pos\_idNo se identifica:edadEntre 24 y 28

-0.56\*\*\*

(0.11)

ola5:pos\_idNo se identifica:edadEntre 24 y 28

-0.42\*\*\*

(0.12)

ola6:pos\_idNo se identifica:edadEntre 24 y 28

-0.38\*\*

(0.12)

ola7:pos\_idNo se identifica:edadEntre 24 y 28

-0.37\*\*\*

(0.11)

ola2:pos\_idCentro:edadEntre 18 y 23

-0.47\*\*\*

(0.13)

ola3:pos\_idCentro:edadEntre 18 y 23

-0.27\*

(0.13)

ola4:pos\_idCentro:edadEntre 18 y 23

-0.33\*

(0.13)

ola5:pos\_idCentro:edadEntre 18 y 23

-0.46\*\*\*

(0.13)

ola6:pos\_idCentro:edadEntre 18 y 23

-0.38\*\*

(0.13)

ola7:pos\_idCentro:edadEntre 18 y 23

-0.19

(0.12)

ola2:pos\_idDerecha:edadEntre 18 y 23

-0.43\*\*

(0.16)

ola3:pos\_idDerecha:edadEntre 18 y 23

-0.34\*

(0.15)

ola4:pos\_idDerecha:edadEntre 18 y 23

-0.54\*\*\*

(0.15)

ola5:pos\_idDerecha:edadEntre 18 y 23

-0.74\*\*\*

(0.15)

ola6:pos\_idDerecha:edadEntre 18 y 23

-0.68\*\*\*

(0.16)

ola7:pos\_idDerecha:edadEntre 18 y 23

-0.40\*\*

(0.14)

ola2:pos\_idNo se identifica:edadEntre 18 y 23

-0.70\*\*\*

(0.12)

ola3:pos\_idNo se identifica:edadEntre 18 y 23

-0.17

(0.12)

ola4:pos\_idNo se identifica:edadEntre 18 y 23

-0.62\*\*\*

(0.12)

ola5:pos\_idNo se identifica:edadEntre 18 y 23

-0.56\*\*\*

(0.12)

ola6:pos\_idNo se identifica:edadEntre 18 y 23

-0.62\*\*\*

(0.12)

ola7:pos\_idNo se identifica:edadEntre 18 y 23

-0.25\*

(0.11)

educTécnica:edadEntre 29 y 45

0.06

(0.09)

educUniversitaria:edadEntre 29 y 45

-0.05

(0.08)

educTécnica:edadEntre 24 y 28

-0.14

(0.13)

educUniversitaria:edadEntre 24 y 28

0.02

(0.11)

educTécnica:edadEntre 18 y 23

0.04

(0.14)

educUniversitaria:edadEntre 18 y 23

0.08

(0.12)

ola2:educTécnica:edadEntre 29 y 45

-0.10

(0.09)

ola3:educTécnica:edadEntre 29 y 45

0.05

(0.09)

ola4:educTécnica:edadEntre 29 y 45

-0.19\*

(0.09)

ola5:educTécnica:edadEntre 29 y 45

-0.22\*

(0.09)

ola6:educTécnica:edadEntre 29 y 45

-0.16

(0.10)

ola7:educTécnica:edadEntre 29 y 45

-0.05

(0.09)

ola2:educUniversitaria:edadEntre 29 y 45

-0.34\*\*\*

(0.09)

ola3:educUniversitaria:edadEntre 29 y 45

-0.11

(0.09)

ola4:educUniversitaria:edadEntre 29 y 45

-0.11

(0.09)

ola5:educUniversitaria:edadEntre 29 y 45

-0.14

(0.09)

ola6:educUniversitaria:edadEntre 29 y 45

-0.15

(0.09)

ola7:educUniversitaria:edadEntre 29 y 45

-0.07

(0.09)

ola2:educTécnica:edadEntre 24 y 28

0.44\*\*\*

(0.13)

ola3:educTécnica:edadEntre 24 y 28

0.03

(0.12)

ola4:educTécnica:edadEntre 24 y 28

-0.43\*\*\*

(0.13)

ola5:educTécnica:edadEntre 24 y 28

-0.37\*\*

(0.13)

ola6:educTécnica:edadEntre 24 y 28

-0.36\*\*

(0.14)

ola7:educTécnica:edadEntre 24 y 28

0.07

(0.13)

ola2:educUniversitaria:edadEntre 24 y 28

0.07

(0.11)

ola3:educUniversitaria:edadEntre 24 y 28

-0.08

(0.11)

ola4:educUniversitaria:edadEntre 24 y 28

-0.24\*

(0.11)

ola5:educUniversitaria:edadEntre 24 y 28

-0.06

(0.11)

ola6:educUniversitaria:edadEntre 24 y 28

0.06

(0.12)

ola7:educUniversitaria:edadEntre 24 y 28

0.02

(0.11)

ola2:educTécnica:edadEntre 18 y 23

0.03

(0.12)

ola3:educTécnica:edadEntre 18 y 23

-0.12

(0.12)

ola4:educTécnica:edadEntre 18 y 23

-0.36\*\*

(0.13)

ola5:educTécnica:edadEntre 18 y 23

-0.23

(0.13)

ola6:educTécnica:edadEntre 18 y 23

-0.21

(0.13)

ola7:educTécnica:edadEntre 18 y 23

0.19

(0.11)

ola2:educUniversitaria:edadEntre 18 y 23

-0.00

(0.11)

ola3:educUniversitaria:edadEntre 18 y 23

0.12

(0.11)

ola4:educUniversitaria:edadEntre 18 y 23

-0.01

(0.11)

ola5:educUniversitaria:edadEntre 18 y 23

0.17

(0.11)

ola6:educUniversitaria:edadEntre 18 y 23

0.19

(0.11)

ola7:educUniversitaria:edadEntre 18 y 23

-0.10

(0.10)

AIC

28975.48

28944.57

28952.08

28809.33

28754.57

28791.38

28787.17

28810.64

28786.13

28914.64

28872.53

BIC

29040.90

29031.80

29046.57

28918.37

28885.42

29053.06

28961.63

29028.71

29047.81

29765.12

29526.75

Log Likelihood

-14478.74

-14460.28

-14463.04

-14389.67

-14359.29

-14359.69

-14369.58

-14375.32

-14357.06

-14340.32

-14346.26

Num. obs.

10605

10605

10605

10605

10605

10605

10605

10605

10605

10605

10605

Num. groups: idencuesta

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

Var: idencuesta (Intercept)

0.12

0.11

0.11

0.10

0.09

0.09

0.09

0.09

0.09

0.09

0.09

Var: Residual

0.15

0.15

0.15

0.15

0.15

0.15

0.15

0.15

0.15

0.14

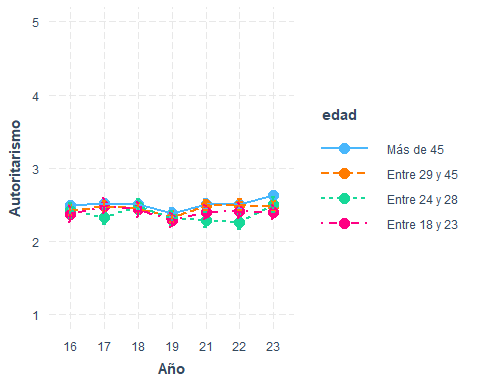
0.15

\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05

### interacciones

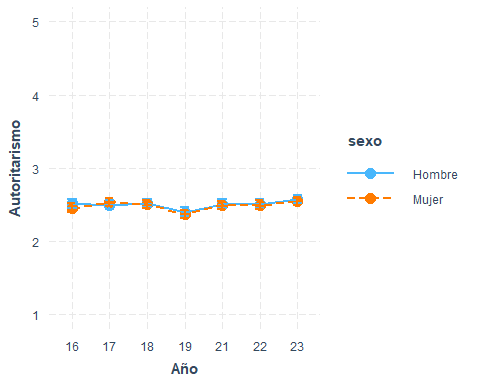
interact\_plot(marchar6, pred = ola, modx = edad, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Autoritarismo", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



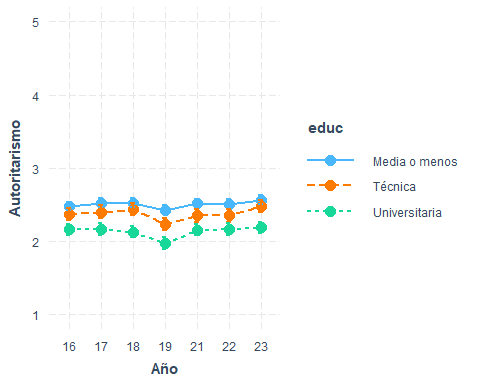
interact\_plot(marchar7, pred = ola, modx = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Autoritarismo", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



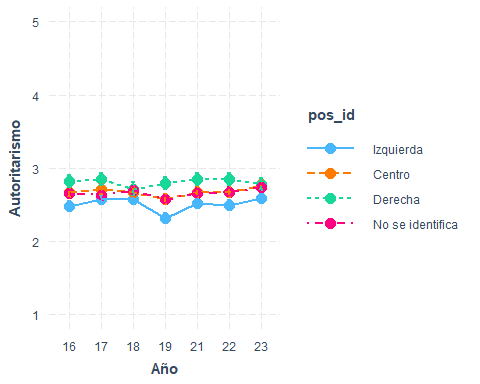
interact\_plot(marchar8, pred = ola, modx = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Autoritarismo", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

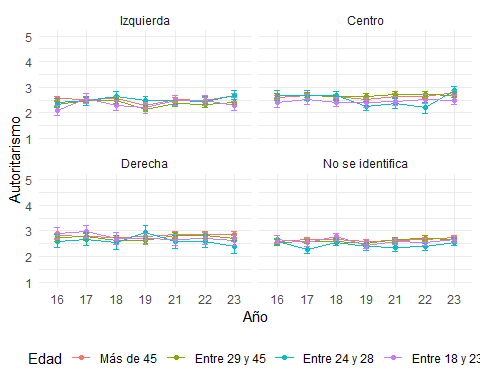


interact\_plot(marchar9, pred = ola, modx = pos\_id, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Autoritarismo", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

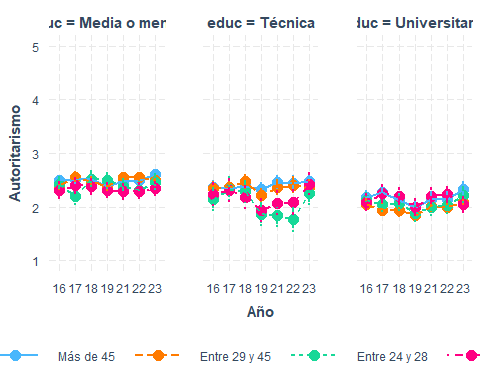


preds <- ggpredict(marchar10, terms = c("ola", "edad", "pos\_id"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Autoritarismo",  
 color = "Edad"  
 ) +  
 ylim(1, 5) +  
 scale\_x\_discrete(labels = waves) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")



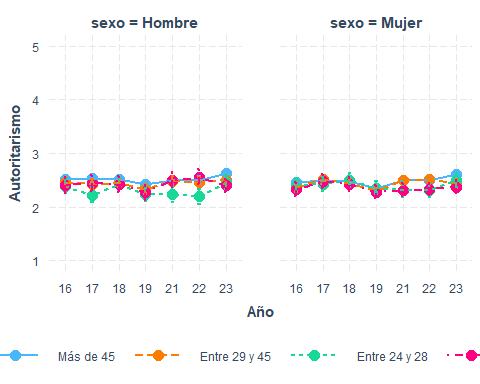
interact\_plot(marchar11, pred = ola, modx = edad, mod2 = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Autoritarismo", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



interact\_plot(marchar12, pred = ola, modx = edad, mod2 = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Autoritarismo", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



## Adopción homoparental (ola 2018 en adelante)

#if (!require("pacman")) install.packages("pacman") # instalar pacman  
 # cargar librerias  
pacman::p\_load(dplyr, # Manipulacion de datos  
 knitr,  
 kableExtra,  
 summarytools,  
 lme4,  
 texreg  
 )  
load(file = here::here("input/data-proc/df\_study1\_long\_t7.RData"))  
  
# generate analytical sample  
df\_study1 <-   
 df\_study1\_long\_t7 %>%  
 select(idencuesta,ola,adop\_homo, edad, sexo, pos\_id, educ, universitaria, ponderador\_long\_total) %>%   
 na.omit() %>%   
 mutate(ola\_num=as.numeric(ola),  
 ola=as.factor(ola),  
 edad = case\_when(edad <=23~"Entre 18 y 23",  
 edad >23 & edad <=28 ~ "Entre 24 y 28",  
 edad >28 & edad <=45 ~ "Entre 29 y 45",  
 edad > 45 ~ "Más de 45"))   
df\_study1$edad <- factor(df\_study1$edad, levels = c("Más de 45", "Entre 29 y 45", "Entre 24 y 28", "Entre 18 y 23"))  
df\_study1$sexo <- factor(df\_study1$sexo, levels = c(1, 2), labels = c("Hombre", "Mujer"))  
  
marchar.null <- lmer(formula(paste0("adop\_homo~","1 + (1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar1 <- lmer(formula(paste0("adop\_homo~",h1,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar2 <- lmer(formula(paste0("adop\_homo~",h2,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar3 <- lmer(formula(paste0("adop\_homo~",h3,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar4 <- lmer(formula(paste0("adop\_homo~",h4,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar5 <- lmer(formula(paste0("adop\_homo~",h5,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar6 <- lmer(formula(paste0("adop\_homo~",h6,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar7 <- lmer(formula(paste0("adop\_homo~",h7,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar8 <- lmer(formula(paste0("adop\_homo~",h8,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar9 <- lmer(formula(paste0("adop\_homo~",h9,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar10 <- lmer(formula(paste0("adop\_homo~",h10,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar11 <- lmer(formula(paste0("adop\_homo~",h11,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar12 <- lmer(formula(paste0("adop\_homo~",h12,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)

texreg::knitreg(list(marchar1, marchar2, marchar3, marchar4, marchar5, marchar6, marchar7, marchar8, marchar9, marchar10, marchar11),  
 custom.note = "\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05")

Statistical models

Model 1

Model 2

Model 3

Model 4

Model 5

Model 6

Model 7

Model 8

Model 9

Model 10

Model 11

(Intercept)

2.90\*\*\*

2.68\*\*\*

2.54\*\*\*

2.39\*\*\*

2.55\*\*\*

2.52\*\*\*

2.61\*\*\*

2.48\*\*\*

2.65\*\*\*

2.49\*\*\*

2.51\*\*\*

(0.03)

(0.04)

(0.06)

(0.06)

(0.08)

(0.08)

(0.08)

(0.08)

(0.08)

(0.10)

(0.08)

ola4

0.21\*\*\*

0.21\*\*\*

0.21\*\*\*

0.21\*\*\*

0.21\*\*\*

0.19\*\*\*

0.18\*\*\*

0.26\*\*\*

0.14\*\*

0.10

0.20\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.04)

(0.03)

(0.05)

(0.08)

(0.05)

ola5

0.33\*\*\*

0.33\*\*\*

0.33\*\*\*

0.32\*\*\*

0.33\*\*\*

0.35\*\*\*

0.28\*\*\*

0.40\*\*\*

0.15\*\*

0.30\*\*\*

0.40\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.04)

(0.04)

(0.05)

(0.08)

(0.05)

ola6

0.31\*\*\*

0.31\*\*\*

0.31\*\*\*

0.31\*\*\*

0.31\*\*\*

0.34\*\*\*

0.25\*\*\*

0.39\*\*\*

0.14\*\*

0.26\*\*

0.39\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.04)

(0.03)

(0.05)

(0.08)

(0.05)

ola7

0.36\*\*\*

0.36\*\*\*

0.36\*\*\*

0.36\*\*\*

0.36\*\*\*

0.47\*\*\*

0.20\*\*\*

0.49\*\*\*

0.21\*\*\*

0.44\*\*\*

0.51\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.04)

(0.03)

(0.05)

(0.08)

(0.05)

edadEntre 29 y 45

0.34\*\*\*

0.34\*\*\*

0.26\*\*\*

0.26\*\*\*

0.24\*\*

0.26\*\*\*

0.26\*\*\*

0.26\*\*\*

0.47\*\*

0.07

(0.07)

(0.07)

(0.07)

(0.07)

(0.08)

(0.07)

(0.07)

(0.07)

(0.15)

(0.10)

edadEntre 24 y 28

0.64\*\*\*

0.65\*\*\*

0.46\*\*\*

0.46\*\*\*

0.54\*\*\*

0.46\*\*\*

0.45\*\*\*

0.46\*\*\*

0.52\*

0.51\*\*

(0.11)

(0.11)

(0.11)

(0.11)

(0.12)

(0.11)

(0.11)

(0.11)

(0.24)

(0.17)

edadEntre 18 y 23

0.80\*\*\*

0.82\*\*\*

0.65\*\*\*

0.66\*\*\*

0.85\*\*\*

0.65\*\*\*

0.66\*\*\*

0.65\*\*\*

1.68\*\*\*

0.71\*\*\*

(0.11)

(0.11)

(0.11)

(0.11)

(0.12)

(0.11)

(0.11)

(0.11)

(0.26)

(0.17)

sexoMujer

0.23\*\*\*

0.27\*\*\*

0.29\*\*\*

0.29\*\*\*

0.17\*\*

0.29\*\*\*

0.29\*\*\*

0.29\*\*\*

0.28\*\*\*

(0.06)

(0.06)

(0.06)

(0.06)

(0.07)

(0.06)

(0.06)

(0.06)

(0.06)

educTécnica

0.20\*

0.19\*

0.19\*

0.19\*

0.37\*\*\*

0.19\*

0.19\*

0.13

(0.08)

(0.08)

(0.08)

(0.08)

(0.09)

(0.08)

(0.08)

(0.13)

educUniversitaria

0.71\*\*\*

0.71\*\*\*

0.72\*\*\*

0.71\*\*\*

0.87\*\*\*

0.72\*\*\*

0.71\*\*\*

0.78\*\*\*

(0.08)

(0.08)

(0.08)

(0.08)

(0.09)

(0.08)

(0.08)

(0.14)

pos\_idCentro

-0.13

-0.13

-0.13

-0.13

-0.31\*\*\*

-0.23

-0.12

(0.08)

(0.08)

(0.08)

(0.08)

(0.10)

(0.13)

(0.08)

pos\_idDerecha

-0.37\*\*\*

-0.38\*\*\*

-0.38\*\*\*

-0.37\*\*\*

-0.56\*\*\*

-0.26

-0.36\*\*\*

(0.10)

(0.10)

(0.10)

(0.10)

(0.11)

(0.15)

(0.10)

pos\_idNo se identifica

-0.21\*\*

-0.21\*\*

-0.21\*\*

-0.21\*\*

-0.31\*\*\*

-0.10

-0.20\*\*

(0.08)

(0.08)

(0.08)

(0.08)

(0.09)

(0.12)

(0.08)

ola4:edadEntre 29 y 45

0.04

0.21

0.11

(0.06)

(0.11)

(0.08)

ola5:edadEntre 29 y 45

0.08

-0.01

0.12

(0.07)

(0.13)

(0.08)

ola6:edadEntre 29 y 45

0.07

-0.00

0.10

(0.06)

(0.12)

(0.08)

ola7:edadEntre 29 y 45

-0.05

-0.10

0.05

(0.06)

(0.11)

(0.08)

ola4:edadEntre 24 y 28

0.03

0.02

0.15

(0.08)

(0.14)

(0.12)

ola5:edadEntre 24 y 28

-0.11

-0.10

-0.14

(0.09)

(0.15)

(0.13)

ola6:edadEntre 24 y 28

-0.05

0.11

-0.06

(0.09)

(0.15)

(0.12)

ola7:edadEntre 24 y 28

-0.26\*\*

-0.65\*\*\*

-0.24\*

(0.08)

(0.15)

(0.12)

ola4:edadEntre 18 y 23

0.05

-0.45\*

0.07

(0.08)

(0.18)

(0.11)

ola5:edadEntre 18 y 23

-0.22\*\*

-1.30\*\*\*

-0.18

(0.08)

(0.18)

(0.12)

ola6:edadEntre 18 y 23

-0.29\*\*\*

-1.31\*\*\*

-0.18

(0.08)

(0.17)

(0.11)

ola7:edadEntre 18 y 23

-0.39\*\*\*

-1.04\*\*\*

-0.12

(0.07)

(0.16)

(0.11)

ola4:sexoMujer

0.06

(0.05)

ola5:sexoMujer

0.08

(0.06)

ola6:sexoMujer

0.10

(0.05)

ola7:sexoMujer

0.30\*\*\*

(0.05)

ola4:educTécnica

-0.21\*\*

0.08

(0.07)

(0.11)

ola5:educTécnica

-0.19\*

-0.03

(0.08)

(0.11)

ola6:educTécnica

-0.24\*\*\*

-0.01

(0.07)

(0.11)

ola7:educTécnica

-0.26\*\*\*

-0.02

(0.07)

(0.11)

ola4:educUniversitaria

-0.04

-0.23

(0.06)

(0.12)

ola5:educUniversitaria

-0.18\*\*

-0.38\*\*

(0.07)

(0.13)

ola6:educUniversitaria

-0.18\*\*

-0.39\*\*

(0.06)

(0.13)

ola7:educUniversitaria

-0.35\*\*\*

-0.31\*

(0.06)

(0.12)

ola4:pos\_idCentro

0.17\*

0.42\*\*\*

(0.07)

(0.11)

ola5:pos\_idCentro

0.29\*\*\*

0.17

(0.08)

(0.12)

ola6:pos\_idCentro

0.21\*\*

0.24\*

(0.07)

(0.11)

ola7:pos\_idCentro

0.27\*\*\*

0.08

(0.07)

(0.11)

ola4:pos\_idDerecha

0.15

-0.17

(0.08)

(0.13)

ola5:pos\_idDerecha

0.30\*\*

0.05

(0.09)

(0.14)

ola6:pos\_idDerecha

0.32\*\*\*

0.10

(0.09)

(0.13)

ola7:pos\_idDerecha

0.20\*

-0.07

(0.08)

(0.13)

ola4:pos\_idNo se identifica

0.03

-0.00

(0.07)

(0.10)

ola5:pos\_idNo se identifica

0.17\*

-0.03

(0.07)

(0.11)

ola6:pos\_idNo se identifica

0.19\*\*

-0.00

(0.07)

(0.11)

ola7:pos\_idNo se identifica

0.14\*

0.06

(0.07)

(0.11)

pos\_idCentro:edadEntre 29 y 45

-0.30

(0.22)

pos\_idDerecha:edadEntre 29 y 45

-0.29

(0.25)

pos\_idNo se identifica:edadEntre 29 y 45

-0.32

(0.20)

pos\_idCentro:edadEntre 24 y 28

0.16

(0.35)

pos\_idDerecha:edadEntre 24 y 28

-0.35

(0.41)

pos\_idNo se identifica:edadEntre 24 y 28

-0.00

(0.30)

pos\_idCentro:edadEntre 18 y 23

-0.37

(0.36)

pos\_idDerecha:edadEntre 18 y 23

-1.64\*\*\*

(0.41)

pos\_idNo se identifica:edadEntre 18 y 23

-1.22\*\*\*

(0.32)

ola4:pos\_idCentro:edadEntre 29 y 45

-0.49\*\*

(0.17)

ola5:pos\_idCentro:edadEntre 29 y 45

0.15

(0.18)

ola6:pos\_idCentro:edadEntre 29 y 45

0.01

(0.17)

ola7:pos\_idCentro:edadEntre 29 y 45

0.27

(0.16)

ola4:pos\_idDerecha:edadEntre 29 y 45

-0.11

(0.20)

ola5:pos\_idDerecha:edadEntre 29 y 45

0.02

(0.21)

ola6:pos\_idDerecha:edadEntre 29 y 45

0.02

(0.20)

ola7:pos\_idDerecha:edadEntre 29 y 45

0.04

(0.19)

ola4:pos\_idNo se identifica:edadEntre 29 y 45

-0.06

(0.16)

ola5:pos\_idNo se identifica:edadEntre 29 y 45

0.15

(0.17)

ola6:pos\_idNo se identifica:edadEntre 29 y 45

0.22

(0.16)

ola7:pos\_idNo se identifica:edadEntre 29 y 45

-0.04

(0.16)

ola4:pos\_idCentro:edadEntre 24 y 28

-0.25

(0.23)

ola5:pos\_idCentro:edadEntre 24 y 28

-0.00

(0.26)

ola6:pos\_idCentro:edadEntre 24 y 28

-0.20

(0.26)

ola7:pos\_idCentro:edadEntre 24 y 28

0.75\*\*

(0.23)

ola4:pos\_idDerecha:edadEntre 24 y 28

1.32\*\*\*

(0.29)

ola5:pos\_idDerecha:edadEntre 24 y 28

0.46

(0.31)

ola6:pos\_idDerecha:edadEntre 24 y 28

0.24

(0.31)

ola7:pos\_idDerecha:edadEntre 24 y 28

0.85\*\*

(0.29)

ola4:pos\_idNo se identifica:edadEntre 24 y 28

-0.17

(0.20)

ola5:pos\_idNo se identifica:edadEntre 24 y 28

-0.11

(0.21)

ola6:pos\_idNo se identifica:edadEntre 24 y 28

-0.32

(0.21)

ola7:pos\_idNo se identifica:edadEntre 24 y 28

0.41\*

(0.20)

ola4:pos\_idCentro:edadEntre 18 y 23

-0.26

(0.23)

ola5:pos\_idCentro:edadEntre 18 y 23

0.85\*\*\*

(0.24)

ola6:pos\_idCentro:edadEntre 18 y 23

0.46\*

(0.22)

ola7:pos\_idCentro:edadEntre 18 y 23

0.39

(0.21)

ola4:pos\_idDerecha:edadEntre 18 y 23

1.60\*\*\*

(0.26)

ola5:pos\_idDerecha:edadEntre 18 y 23

1.70\*\*\*

(0.28)

ola6:pos\_idDerecha:edadEntre 18 y 23

1.75\*\*\*

(0.26)

ola7:pos\_idDerecha:edadEntre 18 y 23

1.41\*\*\*

(0.24)

ola4:pos\_idNo se identifica:edadEntre 18 y 23

0.79\*\*\*

(0.23)

ola5:pos\_idNo se identifica:edadEntre 18 y 23

1.51\*\*\*

(0.22)

ola6:pos\_idNo se identifica:edadEntre 18 y 23

1.53\*\*\*

(0.21)

ola7:pos\_idNo se identifica:edadEntre 18 y 23

0.83\*\*\*

(0.20)

educTécnica:edadEntre 29 y 45

0.29

(0.21)

educUniversitaria:edadEntre 29 y 45

0.41\*

(0.20)

educTécnica:edadEntre 24 y 28

-0.27

(0.32)

educUniversitaria:edadEntre 24 y 28

0.16

(0.27)

educTécnica:edadEntre 18 y 23

1.29\*\*\*

(0.33)

educUniversitaria:edadEntre 18 y 23

-0.32

(0.29)

ola4:educTécnica:edadEntre 29 y 45

-0.40\*

(0.16)

ola5:educTécnica:edadEntre 29 y 45

0.07

(0.18)

ola6:educTécnica:edadEntre 29 y 45

0.09

(0.17)

ola7:educTécnica:edadEntre 29 y 45

-0.13

(0.16)

ola4:educUniversitaria:edadEntre 29 y 45

0.13

(0.16)

ola5:educUniversitaria:edadEntre 29 y 45

0.00

(0.17)

ola6:educUniversitaria:edadEntre 29 y 45

0.04

(0.17)

ola7:educUniversitaria:edadEntre 29 y 45

-0.10

(0.16)

ola4:educTécnica:edadEntre 24 y 28

-0.18

(0.22)

ola5:educTécnica:edadEntre 24 y 28

0.23

(0.24)

ola6:educTécnica:edadEntre 24 y 28

0.17

(0.24)

ola7:educTécnica:edadEntre 24 y 28

0.26

(0.22)

ola4:educUniversitaria:edadEntre 24 y 28

-0.08

(0.20)

ola5:educUniversitaria:edadEntre 24 y 28

0.22

(0.21)

ola6:educUniversitaria:edadEntre 24 y 28

0.19

(0.21)

ola7:educUniversitaria:edadEntre 24 y 28

0.03

(0.20)

ola4:educTécnica:edadEntre 18 y 23

-0.96\*\*\*

(0.22)

ola5:educTécnica:edadEntre 18 y 23

-1.49\*\*\*

(0.24)

ola6:educTécnica:edadEntre 18 y 23

-1.73\*\*\*

(0.22)

ola7:educTécnica:edadEntre 18 y 23

-1.43\*\*\*

(0.20)

ola4:educUniversitaria:edadEntre 18 y 23

0.61\*\*

(0.19)

ola5:educUniversitaria:edadEntre 18 y 23

0.74\*\*\*

(0.20)

ola6:educUniversitaria:edadEntre 18 y 23

0.70\*\*\*

(0.19)

ola7:educUniversitaria:edadEntre 18 y 23

0.20

(0.18)

AIC

30259.68

30195.53

30186.68

30112.53

30112.29

30113.44

30096.65

30106.11

30148.98

30079.53

30036.83

BIC

30308.14

30264.76

30262.83

30202.53

30223.05

30307.28

30235.11

30272.26

30342.82

30667.98

30493.74

Log Likelihood

-15122.84

-15087.76

-15082.34

-15043.27

-15040.14

-15028.72

-15028.32

-15029.06

-15046.49

-14954.77

-14952.41

Num. obs.

7502

7502

7502

7502

7502

7502

7502

7502

7502

7502

7502

Num. groups: idencuesta

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

Var: idencuesta (Intercept)

0.92

0.86

0.85

0.78

0.77

0.77

0.77

0.77

0.77

0.78

0.78

Var: Residual

0.48

0.47

0.47

0.47

0.47

0.47

0.47

0.47

0.47

0.45

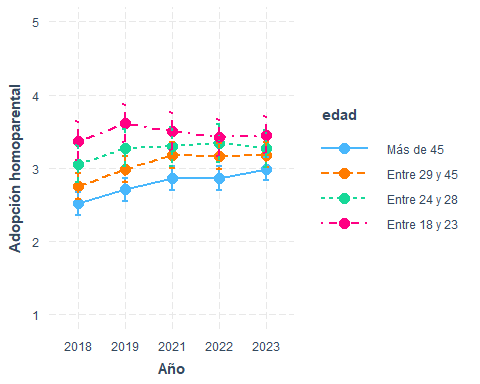
0.46

\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05

### interacciones

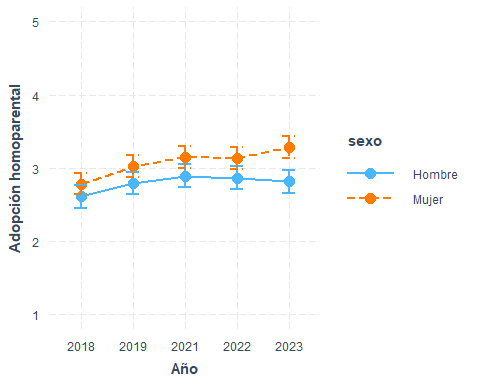
waves3 <- c("2018", "2019", "2021", "2022", "2023")  
interact\_plot(marchar6, pred = ola, modx = edad, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Adopción homoparental", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



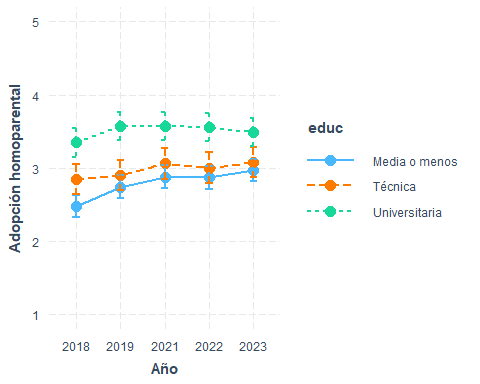
interact\_plot(marchar7, pred = ola, modx = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Adopción homoparental", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



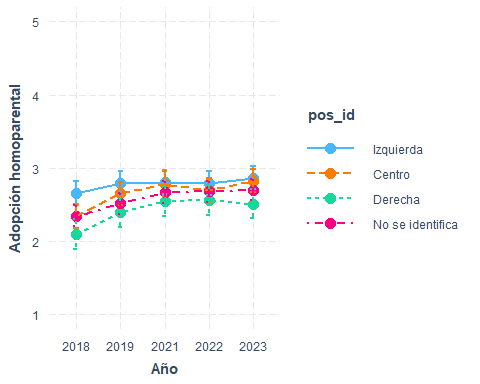
interact\_plot(marchar8, pred = ola, modx = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Adopción homoparental", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

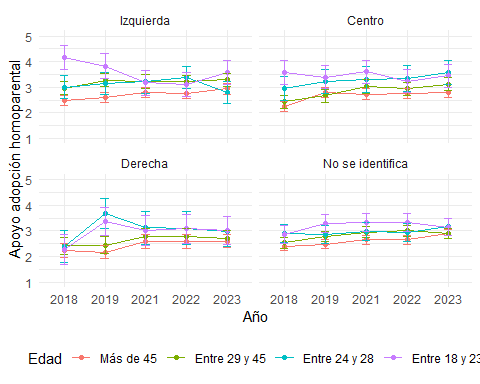


interact\_plot(marchar9, pred = ola, modx = pos\_id, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Adopción homoparental", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

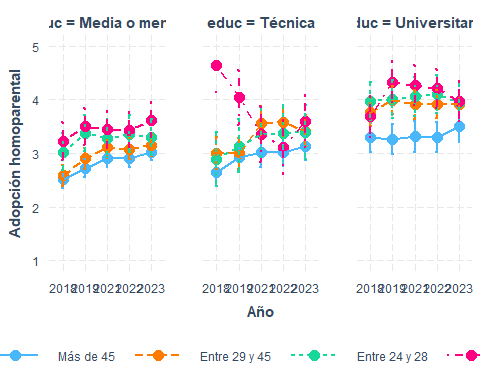


preds <- ggpredict(marchar10, terms = c("ola", "edad", "pos\_id"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Apoyo adopción homoparental",  
 color = "Edad"  
 ) +  
 ylim(1, 5) +  
 scale\_x\_discrete(labels = waves3) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")



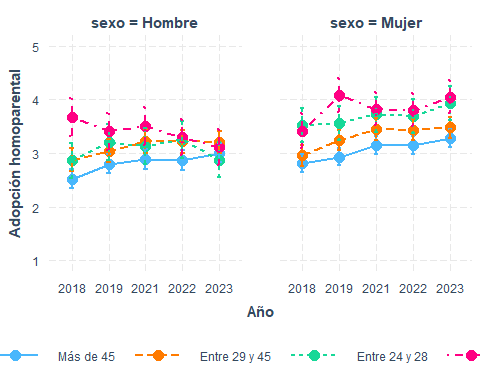
interact\_plot(marchar11, pred = ola, modx = edad, mod2 = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Adopción homoparental", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



interact\_plot(marchar12, pred = ola, modx = edad, mod2 = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Adopción homoparental", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



## Aborto (ola 2018 en adelante)

#if (!require("pacman")) install.packages("pacman") # instalar pacman  
 # cargar librerias  
pacman::p\_load(dplyr, # Manipulacion de datos  
 knitr,  
 kableExtra,  
 summarytools,  
 lme4,  
 texreg  
 )  
load(file = here::here("input/data-proc/df\_study1\_long\_t7.RData"))  
  
# generate analytical sample  
df\_study1 <-   
 df\_study1\_long\_t7 %>%  
 select(idencuesta,ola,aborto, edad, sexo, pos\_id, educ, universitaria, ponderador\_long\_total) %>%   
 na.omit() %>%   
 mutate(ola\_num=as.numeric(ola),  
 ola=as.factor(ola),  
 edad = case\_when(edad <=23~"Entre 18 y 23",  
 edad >23 & edad <=28 ~ "Entre 24 y 28",  
 edad >28 & edad <=45 ~ "Entre 29 y 45",  
 edad > 45 ~ "Más de 45"))   
df\_study1$edad <- factor(df\_study1$edad, levels = c("Más de 45", "Entre 29 y 45", "Entre 24 y 28", "Entre 18 y 23"))  
df\_study1$sexo <- factor(df\_study1$sexo, levels = c(1, 2), labels = c("Hombre", "Mujer"))  
  
marchar.null <- lmer(formula(paste0("aborto~","1 + (1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar1 <- lmer(formula(paste0("aborto~",h1,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar2 <- lmer(formula(paste0("aborto~",h2,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar3 <- lmer(formula(paste0("aborto~",h3,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar4 <- lmer(formula(paste0("aborto~",h4,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar5 <- lmer(formula(paste0("aborto~",h5,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar6 <- lmer(formula(paste0("aborto~",h6,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar7 <- lmer(formula(paste0("aborto~",h7,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar8 <- lmer(formula(paste0("aborto~",h8,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar9 <- lmer(formula(paste0("aborto~",h9,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar10 <- lmer(formula(paste0("aborto~",h10,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar11 <- lmer(formula(paste0("aborto~",h11,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar12 <- lmer(formula(paste0("aborto~",h12,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)

texreg::knitreg(list(marchar1, marchar2, marchar3, marchar4, marchar5, marchar6, marchar7, marchar8, marchar9, marchar10, marchar11),  
 custom.note = "\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05")

Statistical models

Model 1

Model 2

Model 3

Model 4

Model 5

Model 6

Model 7

Model 8

Model 9

Model 10

Model 11

(Intercept)

2.73\*\*\*

2.67\*\*\*

2.72\*\*\*

2.59\*\*\*

2.81\*\*\*

2.83\*\*\*

2.96\*\*\*

2.74\*\*\*

2.87\*\*\*

2.72\*\*\*

2.83\*\*\*

(0.04)

(0.05)

(0.06)

(0.06)

(0.08)

(0.08)

(0.08)

(0.08)

(0.09)

(0.11)

(0.09)

ola4

0.15\*\*\*

0.15\*\*\*

0.15\*\*\*

0.15\*\*\*

0.15\*\*\*

0.16\*\*\*

-0.00

0.17\*\*\*

0.07

0.16

0.16\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.04)

(0.04)

(0.06)

(0.09)

(0.06)

ola5

0.14\*\*\*

0.14\*\*\*

0.14\*\*\*

0.14\*\*\*

0.14\*\*\*

0.10

-0.07

0.29\*\*\*

0.03

0.21\*

0.21\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.05)

(0.04)

(0.06)

(0.10)

(0.06)

ola6

0.00

-0.00

-0.00

-0.00

-0.00

-0.02

-0.18\*\*\*

0.11\*\*

-0.06

0.07

0.11

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.04)

(0.04)

(0.06)

(0.10)

(0.06)

ola7

0.14\*\*\*

0.14\*\*\*

0.14\*\*\*

0.14\*\*\*

0.14\*\*\*

0.11\*

-0.06

0.22\*\*\*

0.06

0.08

0.16\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.05)

(0.04)

(0.04)

(0.06)

(0.09)

(0.06)

edadEntre 29 y 45

0.02

0.02

-0.06

-0.05

0.08

-0.05

-0.05

-0.05

0.54\*\*\*

-0.15

(0.07)

(0.07)

(0.07)

(0.07)

(0.08)

(0.07)

(0.07)

(0.07)

(0.16)

(0.10)

edadEntre 24 y 28

0.20

0.19

0.03

0.03

-0.17

0.02

0.03

0.03

-0.30

-0.44\*

(0.11)

(0.11)

(0.11)

(0.11)

(0.12)

(0.11)

(0.11)

(0.11)

(0.25)

(0.18)

edadEntre 18 y 23

0.39\*\*\*

0.38\*\*\*

0.24\*

0.25\*

0.00

0.25\*

0.25\*

0.25\*

0.33

-0.07

(0.11)

(0.11)

(0.11)

(0.11)

(0.13)

(0.11)

(0.11)

(0.11)

(0.27)

(0.18)

sexoMujer

-0.07

-0.04

-0.02

-0.02

-0.31\*\*\*

-0.02

-0.02

-0.03

-0.04

(0.06)

(0.06)

(0.06)

(0.06)

(0.07)

(0.06)

(0.06)

(0.06)

(0.06)

educTécnica

0.22\*\*

0.21\*\*

0.22\*\*

0.21\*\*

0.38\*\*\*

0.21\*\*

0.21\*\*

0.33\*

(0.08)

(0.08)

(0.08)

(0.08)

(0.10)

(0.08)

(0.08)

(0.14)

educUniversitaria

0.58\*\*\*

0.59\*\*\*

0.59\*\*\*

0.59\*\*\*

0.76\*\*\*

0.59\*\*\*

0.57\*\*\*

0.41\*\*

(0.08)

(0.08)

(0.08)

(0.08)

(0.09)

(0.08)

(0.08)

(0.15)

pos\_idCentro

-0.21\*

-0.21\*

-0.21\*

-0.21\*

-0.32\*\*

-0.01

-0.20\*

(0.08)

(0.08)

(0.08)

(0.08)

(0.10)

(0.14)

(0.08)

pos\_idDerecha

-0.51\*\*\*

-0.51\*\*\*

-0.52\*\*\*

-0.51\*\*\*

-0.52\*\*\*

-0.33\*

-0.49\*\*\*

(0.10)

(0.10)

(0.10)

(0.10)

(0.12)

(0.16)

(0.10)

pos\_idNo se identifica

-0.28\*\*\*

-0.28\*\*\*

-0.28\*\*\*

-0.28\*\*\*

-0.39\*\*\*

-0.19

-0.27\*\*\*

(0.08)

(0.08)

(0.08)

(0.08)

(0.09)

(0.13)

(0.08)

ola4:edadEntre 29 y 45

-0.26\*\*\*

-0.50\*\*\*

-0.09

(0.07)

(0.14)

(0.09)

ola5:edadEntre 29 y 45

-0.10

-0.53\*\*\*

-0.01

(0.07)

(0.14)

(0.09)

ola6:edadEntre 29 y 45

-0.13

-0.43\*\*

-0.09

(0.07)

(0.14)

(0.09)

ola7:edadEntre 29 y 45

-0.14\*

-0.17

-0.03

(0.07)

(0.13)

(0.09)

ola4:edadEntre 24 y 28

0.23\*

0.38\*

0.18

(0.10)

(0.17)

(0.14)

ola5:edadEntre 24 y 28

0.13

-0.01

0.18

(0.10)

(0.18)

(0.15)

ola6:edadEntre 24 y 28

0.37\*\*\*

0.14

0.71\*\*\*

(0.10)

(0.18)

(0.15)

ola7:edadEntre 24 y 28

0.28\*\*

0.03

0.49\*\*\*

(0.10)

(0.18)

(0.14)

ola4:edadEntre 18 y 23

0.37\*\*\*

0.14

0.23

(0.09)

(0.21)

(0.13)

ola5:edadEntre 18 y 23

0.39\*\*\*

-0.00

0.56\*\*\*

(0.10)

(0.21)

(0.14)

ola6:edadEntre 18 y 23

0.16

0.05

-0.14

(0.09)

(0.20)

(0.13)

ola7:edadEntre 18 y 23

0.28\*\*

0.28

0.26\*

(0.09)

(0.19)

(0.13)

ola4:sexoMujer

0.30\*\*\*

(0.06)

ola5:sexoMujer

0.41\*\*\*

(0.06)

ola6:sexoMujer

0.35\*\*\*

(0.06)

ola7:sexoMujer

0.40\*\*\*

(0.06)

ola4:educTécnica

-0.04

-0.12

(0.08)

(0.12)

ola5:educTécnica

-0.34\*\*\*

-0.38\*\*

(0.09)

(0.13)

ola6:educTécnica

-0.25\*\*

-0.46\*\*\*

(0.09)

(0.13)

ola7:educTécnica

-0.23\*\*

-0.18

(0.08)

(0.13)

ola4:educUniversitaria

-0.06

0.07

(0.07)

(0.14)

ola5:educUniversitaria

-0.36\*\*\*

-0.40\*\*

(0.07)

(0.15)

ola6:educUniversitaria

-0.27\*\*\*

-0.37\*

(0.07)

(0.15)

ola7:educUniversitaria

-0.17\*

-0.14

(0.07)

(0.14)

ola4:pos\_idCentro

0.19\*

0.11

(0.08)

(0.13)

ola5:pos\_idCentro

0.13

-0.24

(0.09)

(0.13)

ola6:pos\_idCentro

0.09

-0.14

(0.09)

(0.13)

ola7:pos\_idCentro

0.10

-0.18

(0.08)

(0.13)

ola4:pos\_idDerecha

-0.12

-0.17

(0.10)

(0.15)

ola5:pos\_idDerecha

0.07

-0.30

(0.10)

(0.16)

ola6:pos\_idDerecha

0.04

-0.21

(0.10)

(0.16)

ola7:pos\_idDerecha

0.07

0.13

(0.10)

(0.15)

ola4:pos\_idNo se identifica

0.16\*

-0.04

(0.08)

(0.12)

ola5:pos\_idNo se identifica

0.20\*

-0.02

(0.08)

(0.13)

ola6:pos\_idNo se identifica

0.08

-0.06

(0.08)

(0.13)

ola7:pos\_idNo se identifica

0.14

0.19

(0.08)

(0.12)

pos\_idCentro:edadEntre 29 y 45

-1.13\*\*\*

(0.23)

pos\_idDerecha:edadEntre 29 y 45

-0.28

(0.26)

pos\_idNo se identifica:edadEntre 29 y 45

-0.41\*

(0.21)

pos\_idCentro:edadEntre 24 y 28

0.43

(0.36)

pos\_idDerecha:edadEntre 24 y 28

0.41

(0.43)

pos\_idNo se identifica:edadEntre 24 y 28

0.01

(0.31)

pos\_idCentro:edadEntre 18 y 23

0.01

(0.37)

pos\_idDerecha:edadEntre 18 y 23

-1.17\*\*

(0.42)

pos\_idNo se identifica:edadEntre 18 y 23

-0.38

(0.33)

ola4:pos\_idCentro:edadEntre 29 y 45

0.54\*\*

(0.19)

ola5:pos\_idCentro:edadEntre 29 y 45

1.01\*\*\*

(0.20)

ola6:pos\_idCentro:edadEntre 29 y 45

0.99\*\*\*

(0.20)

ola7:pos\_idCentro:edadEntre 29 y 45

0.79\*\*\*

(0.19)

ola4:pos\_idDerecha:edadEntre 29 y 45

0.13

(0.23)

ola5:pos\_idDerecha:edadEntre 29 y 45

0.42

(0.24)

ola6:pos\_idDerecha:edadEntre 29 y 45

0.13

(0.24)

ola7:pos\_idDerecha:edadEntre 29 y 45

-0.43

(0.23)

ola4:pos\_idNo se identifica:edadEntre 29 y 45

0.32

(0.18)

ola5:pos\_idNo se identifica:edadEntre 29 y 45

0.35

(0.19)

ola6:pos\_idNo se identifica:edadEntre 29 y 45

0.08

(0.19)

ola7:pos\_idNo se identifica:edadEntre 29 y 45

-0.29

(0.18)

ola4:pos\_idCentro:edadEntre 24 y 28

-0.45

(0.27)

ola5:pos\_idCentro:edadEntre 24 y 28

0.54

(0.28)

ola6:pos\_idCentro:edadEntre 24 y 28

-0.10

(0.30)

ola7:pos\_idCentro:edadEntre 24 y 28

0.17

(0.27)

ola4:pos\_idDerecha:edadEntre 24 y 28

-0.42

(0.34)

ola5:pos\_idDerecha:edadEntre 24 y 28

0.35

(0.35)

ola6:pos\_idDerecha:edadEntre 24 y 28

0.46

(0.36)

ola7:pos\_idDerecha:edadEntre 24 y 28

0.79\*

(0.34)

ola4:pos\_idNo se identifica:edadEntre 24 y 28

-0.08

(0.23)

ola5:pos\_idNo se identifica:edadEntre 24 y 28

-0.12

(0.25)

ola6:pos\_idNo se identifica:edadEntre 24 y 28

0.45

(0.24)

ola7:pos\_idNo se identifica:edadEntre 24 y 28

0.28

(0.23)

ola4:pos\_idCentro:edadEntre 18 y 23

-0.22

(0.28)

ola5:pos\_idCentro:edadEntre 18 y 23

-0.13

(0.28)

ola6:pos\_idCentro:edadEntre 18 y 23

-0.43

(0.27)

ola7:pos\_idCentro:edadEntre 18 y 23

-0.06

(0.25)

ola4:pos\_idDerecha:edadEntre 18 y 23

0.43

(0.31)

ola5:pos\_idDerecha:edadEntre 18 y 23

1.23\*\*\*

(0.32)

ola6:pos\_idDerecha:edadEntre 18 y 23

0.86\*\*

(0.31)

ola7:pos\_idDerecha:edadEntre 18 y 23

0.09

(0.29)

ola4:pos\_idNo se identifica:edadEntre 18 y 23

0.58\*

(0.26)

ola5:pos\_idNo se identifica:edadEntre 18 y 23

0.54\*

(0.26)

ola6:pos\_idNo se identifica:edadEntre 18 y 23

0.23

(0.25)

ola7:pos\_idNo se identifica:edadEntre 18 y 23

-0.05

(0.23)

educTécnica:edadEntre 29 y 45

0.21

(0.22)

educUniversitaria:edadEntre 29 y 45

0.82\*\*\*

(0.21)

educTécnica:edadEntre 24 y 28

-0.04

(0.34)

educUniversitaria:edadEntre 24 y 28

0.84\*\*

(0.29)

educTécnica:edadEntre 18 y 23

0.40

(0.35)

educUniversitaria:edadEntre 18 y 23

0.08

(0.30)

ola4:educTécnica:edadEntre 29 y 45

-0.07

(0.19)

ola5:educTécnica:edadEntre 29 y 45

0.02

(0.20)

ola6:educTécnica:edadEntre 29 y 45

0.10

(0.20)

ola7:educTécnica:edadEntre 29 y 45

-0.01

(0.19)

ola4:educUniversitaria:edadEntre 29 y 45

-0.61\*\*

(0.19)

ola5:educUniversitaria:edadEntre 29 y 45

-0.12

(0.20)

ola6:educUniversitaria:edadEntre 29 y 45

-0.05

(0.19)

ola7:educUniversitaria:edadEntre 29 y 45

-0.32

(0.19)

ola4:educTécnica:edadEntre 24 y 28

0.42

(0.26)

ola5:educTécnica:edadEntre 24 y 28

0.07

(0.27)

ola6:educTécnica:edadEntre 24 y 28

0.47

(0.29)

ola7:educTécnica:edadEntre 24 y 28

0.04

(0.26)

ola4:educUniversitaria:edadEntre 24 y 28

-0.10

(0.23)

ola5:educUniversitaria:edadEntre 24 y 28

0.13

(0.24)

ola6:educUniversitaria:edadEntre 24 y 28

-0.83\*\*\*

(0.24)

ola7:educUniversitaria:edadEntre 24 y 28

-0.46\*

(0.23)

ola4:educTécnica:edadEntre 18 y 23

0.23

(0.26)

ola5:educTécnica:edadEntre 18 y 23

0.00

(0.27)

ola6:educTécnica:edadEntre 18 y 23

0.52\*

(0.25)

ola7:educTécnica:edadEntre 18 y 23

-0.49\*

(0.24)

ola4:educUniversitaria:edadEntre 18 y 23

0.28

(0.23)

ola5:educUniversitaria:edadEntre 18 y 23

0.01

(0.23)

ola6:educUniversitaria:edadEntre 18 y 23

0.83\*\*\*

(0.22)

ola7:educUniversitaria:edadEntre 18 y 23

0.40

(0.22)

AIC

32851.27

32851.80

32856.11

32810.70

32797.79

32790.48

32761.24

32797.79

32843.38

32779.78

32739.28

BIC

32899.86

32921.22

32932.47

32900.95

32908.87

32984.85

32900.08

32964.40

33037.76

33369.85

33197.45

Log Likelihood

-16418.63

-16415.90

-16417.05

-16392.35

-16382.90

-16367.24

-16360.62

-16374.90

-16393.69

-16304.89

-16303.64

Num. obs.

7647

7647

7647

7647

7647

7647

7647

7647

7647

7647

7647

Num. groups: idencuesta

1704

1704

1704

1704

1704

1704

1704

1704

1704

1704

1704

Var: idencuesta (Intercept)

0.81

0.81

0.80

0.76

0.74

0.74

0.74

0.74

0.74

0.73

0.74

Var: Residual

0.66

0.66

0.66

0.65

0.65

0.65

0.65

0.65

0.65

0.63

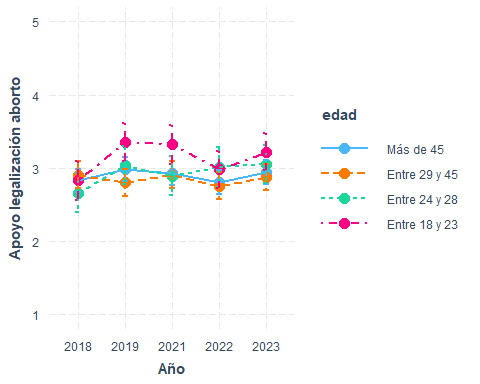
0.63

\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05

### interacciones

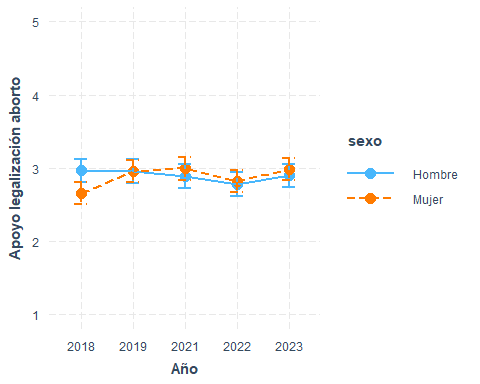
interact\_plot(marchar6, pred = ola, modx = edad, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Apoyo legalización aborto", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



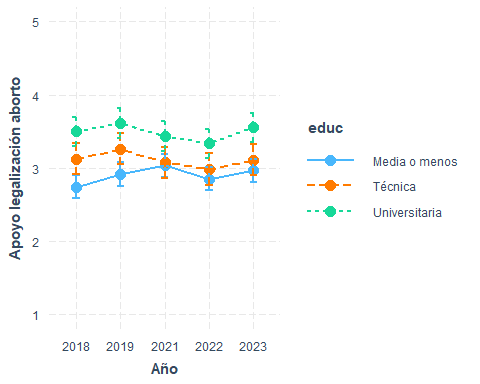
interact\_plot(marchar7, pred = ola, modx = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Apoyo legalización aborto", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



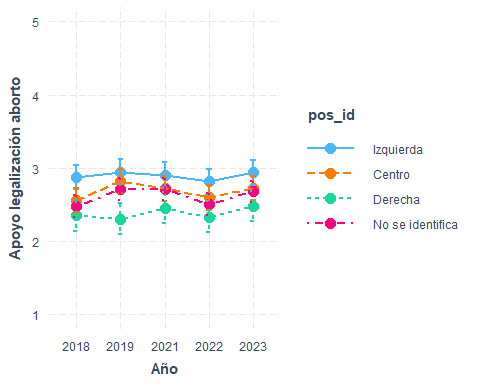
interact\_plot(marchar8, pred = ola, modx = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Apoyo legalización aborto", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

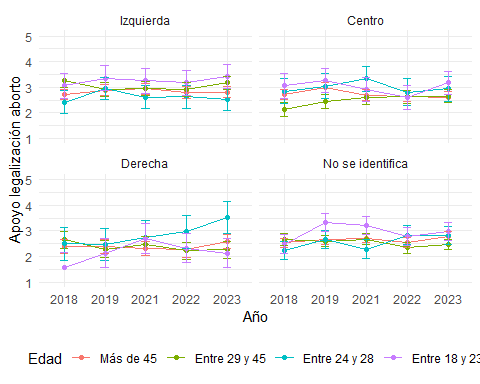


interact\_plot(marchar9, pred = ola, modx = pos\_id, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Apoyo legalización aborto", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

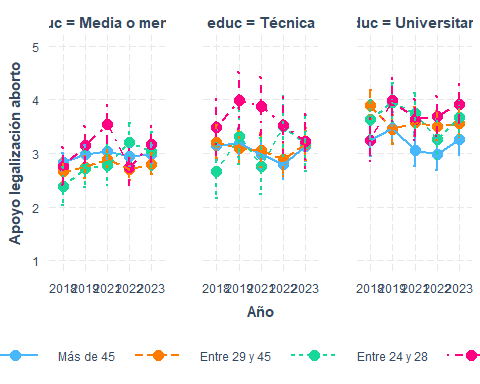


preds <- ggpredict(marchar10, terms = c("ola", "edad", "pos\_id"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Apoyo legalización aborto",  
 color = "Edad"  
 ) +  
 ylim(1, 5) +  
 scale\_x\_discrete(labels = waves3) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")



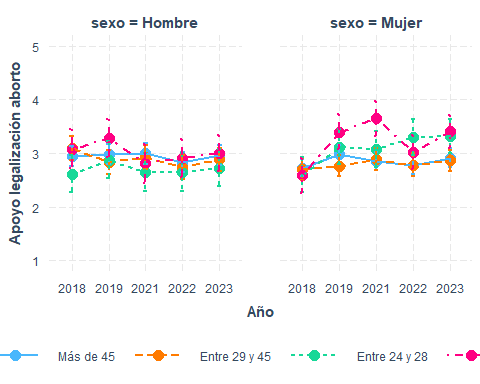
interact\_plot(marchar11, pred = ola, modx = edad, mod2 = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Apoyo legalización aborto", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



interact\_plot(marchar12, pred = ola, modx = edad, mod2 = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Apoyo legalización aborto", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



## Chile debería tomar medidas más drásticas para impedir el ingreso de inmigrantes al país

* Ola 2018 en adelante

#if (!require("pacman")) install.packages("pacman") # instalar pacman  
 # cargar librerias  
pacman::p\_load(dplyr, # Manipulacion de datos  
 knitr,  
 kableExtra,  
 summarytools,  
 lme4,  
 texreg  
 )  
load(file = here::here("input/data-proc/df\_study1\_long\_t7.RData"))  
  
# generate analytical sample  
df\_study1 <-   
 df\_study1\_long\_t7 %>%  
 select(idencuesta,ola,restriccion\_migrantes, edad, sexo, pos\_id, educ, universitaria, ponderador\_long\_total) %>%   
 na.omit() %>%   
 mutate(ola\_num=as.numeric(ola),  
 ola=as.factor(ola),  
 edad = case\_when(edad <=23~"Entre 18 y 23",  
 edad >23 & edad <=28 ~ "Entre 24 y 28",  
 edad >28 & edad <=45 ~ "Entre 29 y 45",  
 edad > 45 ~ "Más de 45"))   
df\_study1$edad <- factor(df\_study1$edad, levels = c("Más de 45", "Entre 29 y 45", "Entre 24 y 28", "Entre 18 y 23"))  
df\_study1$sexo <- factor(df\_study1$sexo, levels = c(1, 2), labels = c("Hombre", "Mujer"))  
  
marchar.null <- lmer(formula(paste0("restriccion\_migrantes~","1 + (1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar1 <- lmer(formula(paste0("restriccion\_migrantes~",h1,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar2 <- lmer(formula(paste0("restriccion\_migrantes~",h2,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar3 <- lmer(formula(paste0("restriccion\_migrantes~",h3,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar4 <- lmer(formula(paste0("restriccion\_migrantes~",h4,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar5 <- lmer(formula(paste0("restriccion\_migrantes~",h5,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar6 <- lmer(formula(paste0("restriccion\_migrantes~",h6,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar7 <- lmer(formula(paste0("restriccion\_migrantes~",h7,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar8 <- lmer(formula(paste0("restriccion\_migrantes~",h8,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar9 <- lmer(formula(paste0("restriccion\_migrantes~",h9,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar10 <- lmer(formula(paste0("restriccion\_migrantes~",h10,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar11 <- lmer(formula(paste0("restriccion\_migrantes~",h11,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar12 <- lmer(formula(paste0("restriccion\_migrantes~",h12,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)

texreg::knitreg(list(marchar1, marchar2, marchar3, marchar4, marchar5, marchar6, marchar7, marchar8, marchar9, marchar10, marchar11),  
 custom.note = "\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05")

Statistical models

Model 1

Model 2

Model 3

Model 4

Model 5

Model 6

Model 7

Model 8

Model 9

Model 10

Model 11

(Intercept)

3.73\*\*\*

3.81\*\*\*

3.75\*\*\*

3.88\*\*\*

3.65\*\*\*

3.73\*\*\*

3.59\*\*\*

3.71\*\*\*

3.61\*\*\*

3.81\*\*\*

3.78\*\*\*

(0.03)

(0.03)

(0.04)

(0.04)

(0.06)

(0.06)

(0.06)

(0.06)

(0.06)

(0.08)

(0.06)

ola4

-0.09\*\*

-0.09\*\*

-0.09\*\*

-0.09\*\*

-0.09\*\*

-0.17\*\*\*

0.04

-0.09\*\*

-0.06

-0.29\*\*\*

-0.17\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.04)

(0.03)

(0.05)

(0.08)

(0.05)

ola5

0.13\*\*\*

0.13\*\*\*

0.13\*\*\*

0.13\*\*\*

0.13\*\*\*

0.02

0.14\*\*\*

0.11\*\*

0.13\*

-0.16

-0.04

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.04)

(0.04)

(0.05)

(0.08)

(0.05)

ola6

0.41\*\*\*

0.41\*\*\*

0.41\*\*\*

0.41\*\*\*

0.41\*\*\*

0.28\*\*\*

0.47\*\*\*

0.28\*\*\*

0.56\*\*\*

0.24\*\*

0.19\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.04)

(0.04)

(0.05)

(0.08)

(0.05)

ola7

0.52\*\*\*

0.53\*\*\*

0.53\*\*\*

0.53\*\*\*

0.52\*\*\*

0.45\*\*\*

0.61\*\*\*

0.41\*\*\*

0.58\*\*\*

0.46\*\*\*

0.36\*\*\*

(0.03)

(0.03)

(0.03)

(0.03)

(0.03)

(0.04)

(0.04)

(0.03)

(0.05)

(0.08)

(0.05)

edadEntre 29 y 45

-0.10\*

-0.10\*

-0.02

-0.02

-0.14\*

-0.02

-0.02

-0.02

-0.47\*\*\*

-0.02

(0.05)

(0.05)

(0.05)

(0.05)

(0.06)

(0.05)

(0.05)

(0.05)

(0.12)

(0.08)

edadEntre 24 y 28

-0.30\*\*\*

-0.30\*\*\*

-0.12

-0.12

-0.27\*\*

-0.12

-0.12

-0.12

-0.31

-0.36\*\*

(0.08)

(0.08)

(0.08)

(0.07)

(0.09)

(0.07)

(0.07)

(0.07)

(0.18)

(0.13)

edadEntre 18 y 23

-0.34\*\*\*

-0.33\*\*\*

-0.18\*

-0.19\*

-0.35\*\*\*

-0.19\*

-0.19\*\*

-0.18\*

-0.47\*

-0.59\*\*\*

(0.08)

(0.08)

(0.08)

(0.08)

(0.09)

(0.08)

(0.08)

(0.08)

(0.20)

(0.13)

sexoMujer

0.10\*

0.07

0.05

0.05

0.16\*\*

0.05

0.05

0.06

0.04

(0.04)

(0.04)

(0.04)

(0.04)

(0.05)

(0.04)

(0.04)

(0.04)

(0.04)

educTécnica

-0.22\*\*\*

-0.21\*\*\*

-0.21\*\*\*

-0.21\*\*\*

-0.21\*\*

-0.21\*\*\*

-0.21\*\*\*

-0.27\*

(0.06)

(0.06)

(0.06)

(0.06)

(0.07)

(0.06)

(0.06)

(0.11)

educUniversitaria

-0.63\*\*\*

-0.63\*\*\*

-0.63\*\*\*

-0.63\*\*\*

-0.86\*\*\*

-0.63\*\*\*

-0.63\*\*\*

-0.87\*\*\*

(0.05)

(0.05)

(0.05)

(0.05)

(0.07)

(0.05)

(0.05)

(0.11)

pos\_idCentro

0.27\*\*\*

0.27\*\*\*

0.27\*\*\*

0.27\*\*\*

0.31\*\*\*

0.02

0.26\*\*\*

(0.06)

(0.06)

(0.06)

(0.06)

(0.07)

(0.11)

(0.06)

pos\_idDerecha

0.48\*\*\*

0.48\*\*\*

0.48\*\*\*

0.48\*\*\*

0.53\*\*\*

0.33\*\*

0.46\*\*\*

(0.07)

(0.07)

(0.07)

(0.07)

(0.09)

(0.13)

(0.07)

pos\_idNo se identifica

0.29\*\*\*

0.29\*\*\*

0.29\*\*\*

0.28\*\*\*

0.37\*\*\*

0.28\*\*

0.28\*\*\*

(0.05)

(0.05)

(0.05)

(0.05)

(0.07)

(0.10)

(0.05)

ola4:edadEntre 29 y 45

0.14\*

0.50\*\*\*

0.09

(0.06)

(0.12)

(0.08)

ola5:edadEntre 29 y 45

0.21\*\*

0.51\*\*\*

0.11

(0.07)

(0.13)

(0.08)

ola6:edadEntre 29 y 45

0.18\*\*

0.59\*\*\*

0.01

(0.07)

(0.12)

(0.08)

ola7:edadEntre 29 y 45

0.09

0.32\*\*

-0.10

(0.06)

(0.12)

(0.08)

ola4:edadEntre 24 y 28

0.07

0.22

0.12

(0.09)

(0.15)

(0.12)

ola5:edadEntre 24 y 28

0.01

0.48\*\*

0.32\*

(0.09)

(0.16)

(0.13)

ola6:edadEntre 24 y 28

0.34\*\*\*

0.80\*\*\*

0.53\*\*\*

(0.09)

(0.16)

(0.13)

ola7:edadEntre 24 y 28

0.30\*\*\*

0.36\*

0.37\*\*

(0.09)

(0.16)

(0.12)

ola4:edadEntre 18 y 23

0.23\*\*

0.35

0.48\*\*\*

(0.08)

(0.19)

(0.12)

ola5:edadEntre 18 y 23

0.29\*\*\*

0.37\*

0.77\*\*\*

(0.08)

(0.18)

(0.12)

ola6:edadEntre 18 y 23

0.22\*\*

0.00

0.46\*\*\*

(0.08)

(0.18)

(0.11)

ola7:edadEntre 18 y 23

0.10

-0.23

0.51\*\*\*

(0.08)

(0.16)

(0.11)

ola4:sexoMujer

-0.25\*\*\*

(0.05)

ola5:sexoMujer

-0.01

(0.06)

ola6:sexoMujer

-0.11\*

(0.05)

ola7:sexoMujer

-0.15\*\*

(0.05)

ola4:educTécnica

0.06

0.08

(0.07)

(0.11)

ola5:educTécnica

-0.19\*

0.11

(0.08)

(0.11)

ola6:educTécnica

0.02

0.16

(0.08)

(0.12)

ola7:educTécnica

0.08

0.06

(0.07)

(0.11)

ola4:educUniversitaria

-0.04

-0.08

(0.07)

(0.12)

ola5:educUniversitaria

0.24\*\*\*

0.32\*

(0.07)

(0.13)

ola6:educUniversitaria

0.52\*\*\*

0.52\*\*\*

(0.06)

(0.13)

ola7:educUniversitaria

0.41\*\*\*

0.67\*\*\*

(0.06)

(0.13)

ola4:pos\_idCentro

-0.05

0.16

(0.07)

(0.11)

ola5:pos\_idCentro

0.08

0.41\*\*\*

(0.08)

(0.12)

ola6:pos\_idCentro

-0.16\*

0.12

(0.08)

(0.12)

ola7:pos\_idCentro

-0.07

0.18

(0.07)

(0.11)

ola4:pos\_idDerecha

-0.04

0.28\*

(0.09)

(0.13)

ola5:pos\_idDerecha

-0.04

0.36\*

(0.09)

(0.14)

ola6:pos\_idDerecha

-0.24\*\*

0.19

(0.09)

(0.14)

ola7:pos\_idDerecha

0.06

0.04

(0.09)

(0.13)

ola4:pos\_idNo se identifica

-0.02

0.11

(0.07)

(0.11)

ola5:pos\_idNo se identifica

-0.05

0.05

(0.07)

(0.11)

ola6:pos\_idNo se identifica

-0.21\*\*

-0.06

(0.07)

(0.11)

ola7:pos\_idNo se identifica

-0.14\*

-0.20

(0.07)

(0.11)

pos\_idCentro:edadEntre 29 y 45

0.58\*\*\*

(0.17)

pos\_idDerecha:edadEntre 29 y 45

0.44\*

(0.20)

pos\_idNo se identifica:edadEntre 29 y 45

0.38\*

(0.16)

pos\_idCentro:edadEntre 24 y 28

0.29

(0.26)

pos\_idDerecha:edadEntre 24 y 28

0.53

(0.32)

pos\_idNo se identifica:edadEntre 24 y 28

-0.16

(0.23)

pos\_idCentro:edadEntre 18 y 23

0.49

(0.27)

pos\_idDerecha:edadEntre 18 y 23

0.04

(0.31)

pos\_idNo se identifica:edadEntre 18 y 23

-0.05

(0.25)

ola4:pos\_idCentro:edadEntre 29 y 45

-0.30

(0.17)

ola5:pos\_idCentro:edadEntre 29 y 45

-0.41\*

(0.18)

ola6:pos\_idCentro:edadEntre 29 y 45

-0.47\*\*

(0.18)

ola7:pos\_idCentro:edadEntre 29 y 45

-0.50\*\*

(0.17)

ola4:pos\_idDerecha:edadEntre 29 y 45

-0.82\*\*\*

(0.20)

ola5:pos\_idDerecha:edadEntre 29 y 45

-0.53\*

(0.21)

ola6:pos\_idDerecha:edadEntre 29 y 45

-0.82\*\*\*

(0.21)

ola7:pos\_idDerecha:edadEntre 29 y 45

-0.22

(0.20)

ola4:pos\_idNo se identifica:edadEntre 29 y 45

-0.53\*\*

(0.16)

ola5:pos\_idNo se identifica:edadEntre 29 y 45

-0.37\*

(0.17)

ola6:pos\_idNo se identifica:edadEntre 29 y 45

-0.53\*\*

(0.17)

ola7:pos\_idNo se identifica:edadEntre 29 y 45

-0.22

(0.16)

ola4:pos\_idCentro:edadEntre 24 y 28

-0.23

(0.24)

ola5:pos\_idCentro:edadEntre 24 y 28

-0.64\*\*

(0.25)

ola6:pos\_idCentro:edadEntre 24 y 28

-0.63\*

(0.27)

ola7:pos\_idCentro:edadEntre 24 y 28

-0.26

(0.24)

ola4:pos\_idDerecha:edadEntre 24 y 28

-0.53

(0.30)

ola5:pos\_idDerecha:edadEntre 24 y 28

-1.43\*\*\*

(0.31)

ola6:pos\_idDerecha:edadEntre 24 y 28

-1.41\*\*\*

(0.32)

ola7:pos\_idDerecha:edadEntre 24 y 28

-0.46

(0.30)

ola4:pos\_idNo se identifica:edadEntre 24 y 28

-0.05

(0.21)

ola5:pos\_idNo se identifica:edadEntre 24 y 28

-0.43\*

(0.22)

ola6:pos\_idNo se identifica:edadEntre 24 y 28

-0.48\*

(0.22)

ola7:pos\_idNo se identifica:edadEntre 24 y 28

0.16

(0.21)

ola4:pos\_idCentro:edadEntre 18 y 23

-0.63\*\*

(0.25)

ola5:pos\_idCentro:edadEntre 18 y 23

-0.66\*\*

(0.25)

ola6:pos\_idCentro:edadEntre 18 y 23

-0.13

(0.24)

ola7:pos\_idCentro:edadEntre 18 y 23

-0.26

(0.22)

ola4:pos\_idDerecha:edadEntre 18 y 23

-0.10

(0.28)

ola5:pos\_idDerecha:edadEntre 18 y 23

-0.43

(0.29)

ola6:pos\_idDerecha:edadEntre 18 y 23

0.18

(0.27)

ola7:pos\_idDerecha:edadEntre 18 y 23

0.82\*\*

(0.26)

ola4:pos\_idNo se identifica:edadEntre 18 y 23

0.19

(0.23)

ola5:pos\_idNo se identifica:edadEntre 18 y 23

0.38

(0.23)

ola6:pos\_idNo se identifica:edadEntre 18 y 23

0.59\*\*

(0.22)

ola7:pos\_idNo se identifica:edadEntre 18 y 23

0.76\*\*\*

(0.21)

educTécnica:edadEntre 29 y 45

-0.11

(0.17)

educUniversitaria:edadEntre 29 y 45

-0.27

(0.16)

educTécnica:edadEntre 24 y 28

0.09

(0.25)

educUniversitaria:edadEntre 24 y 28

0.33

(0.21)

educTécnica:edadEntre 18 y 23

0.49

(0.25)

educUniversitaria:edadEntre 18 y 23

0.54\*

(0.22)

ola4:educTécnica:edadEntre 29 y 45

0.16

(0.17)

ola5:educTécnica:edadEntre 29 y 45

0.11

(0.18)

ola6:educTécnica:edadEntre 29 y 45

0.26

(0.18)

ola7:educTécnica:edadEntre 29 y 45

0.52\*\*

(0.17)

ola4:educUniversitaria:edadEntre 29 y 45

0.07

(0.17)

ola5:educUniversitaria:edadEntre 29 y 45

0.10

(0.17)

ola6:educUniversitaria:edadEntre 29 y 45

0.21

(0.17)

ola7:educUniversitaria:edadEntre 29 y 45

0.03

(0.16)

ola4:educTécnica:edadEntre 24 y 28

0.08

(0.23)

ola5:educTécnica:edadEntre 24 y 28

-1.41\*\*\*

(0.24)

ola6:educTécnica:edadEntre 24 y 28

-0.93\*\*\*

(0.25)

ola7:educTécnica:edadEntre 24 y 28

-0.49\*

(0.23)

ola4:educUniversitaria:edadEntre 24 y 28

-0.06

(0.21)

ola5:educUniversitaria:edadEntre 24 y 28

-0.31

(0.22)

ola6:educUniversitaria:edadEntre 24 y 28

-0.42\*

(0.21)

ola7:educUniversitaria:edadEntre 24 y 28

-0.39

(0.21)

ola4:educTécnica:edadEntre 18 y 23

-0.72\*\*

(0.23)

ola5:educTécnica:edadEntre 18 y 23

-1.32\*\*\*

(0.24)

ola6:educTécnica:edadEntre 18 y 23

-0.97\*\*\*

(0.22)

ola7:educTécnica:edadEntre 18 y 23

-0.78\*\*\*

(0.21)

ola4:educUniversitaria:edadEntre 18 y 23

-0.24

(0.20)

ola5:educUniversitaria:edadEntre 18 y 23

-0.85\*\*\*

(0.20)

ola6:educUniversitaria:edadEntre 18 y 23

-0.53\*\*

(0.19)

ola7:educUniversitaria:edadEntre 18 y 23

-1.11\*\*\*

(0.19)

AIC

30714.66

30703.03

30704.30

30588.88

30551.88

30567.12

30547.39

30458.46

30590.46

30620.24

30428.62

BIC

30763.28

30772.49

30780.70

30679.17

30663.00

30761.60

30686.30

30625.15

30784.93

31210.61

30887.03

Log Likelihood

-15350.33

-15341.52

-15341.15

-15281.44

-15259.94

-15255.56

-15253.70

-15205.23

-15267.23

-15225.12

-15148.31

Num. obs.

7674

7674

7674

7674

7674

7674

7674

7674

7674

7674

7674

Num. groups: idencuesta

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

1705

Var: idencuesta (Intercept)

0.38

0.37

0.37

0.32

0.30

0.30

0.30

0.30

0.30

0.30

0.29

Var: Residual

0.52

0.52

0.52

0.52

0.52

0.51

0.51

0.51

0.51

0.50

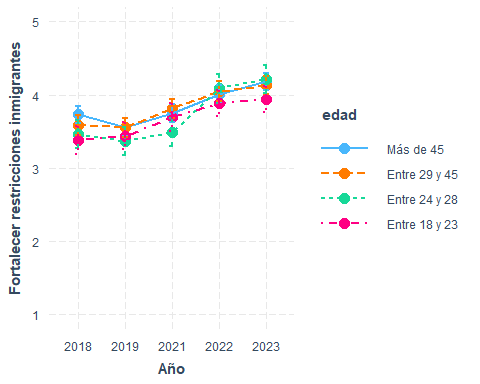
0.49

\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05

### interacciones

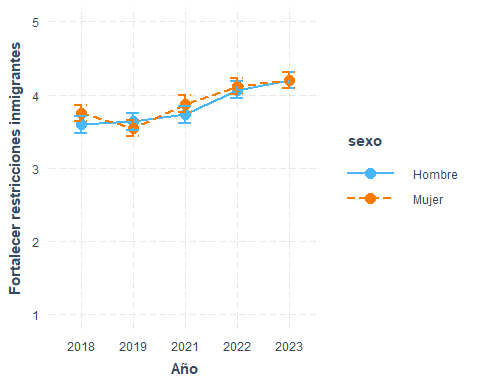
interact\_plot(marchar6, pred = ola, modx = edad, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Fortalecer restricciones inmigrantes", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



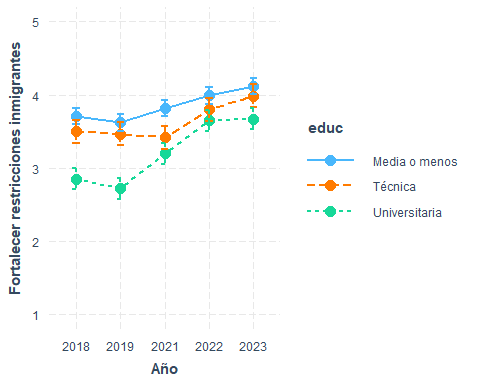
interact\_plot(marchar7, pred = ola, modx = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Fortalecer restricciones inmigrantes", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



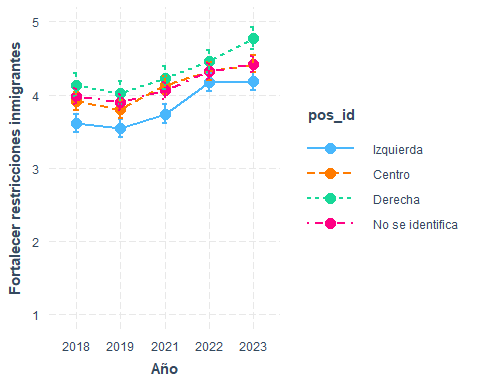
interact\_plot(marchar8, pred = ola, modx = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Fortalecer restricciones inmigrantes", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

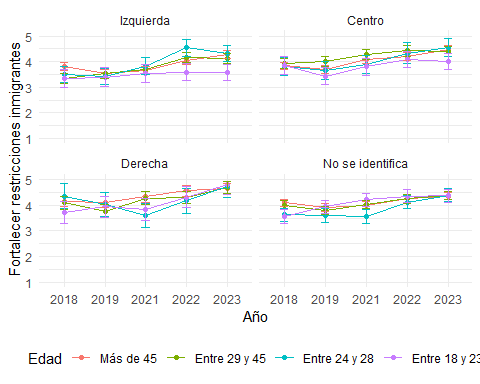


interact\_plot(marchar9, pred = ola, modx = pos\_id, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Fortalecer restricciones inmigrantes", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.

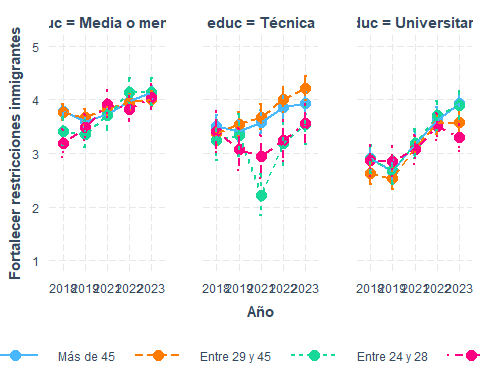


preds <- ggpredict(marchar10, terms = c("ola", "edad", "pos\_id"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Fortalecer restricciones inmigrantes",  
 color = "Edad"  
 ) +  
 ylim(1, 5) +  
 scale\_x\_discrete(labels = waves3) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")



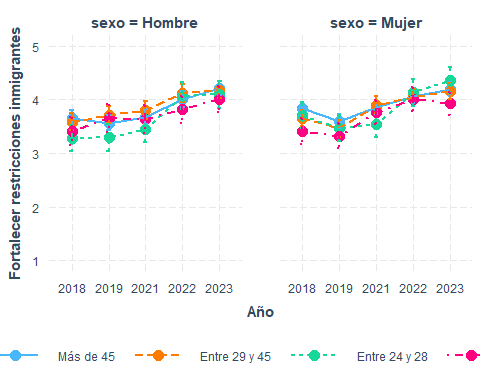
interact\_plot(marchar11, pred = ola, modx = edad, mod2 = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Fortalecer restricciones inmigrantes", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



interact\_plot(marchar12, pred = ola, modx = edad, mod2 = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Fortalecer restricciones inmigrantes", x="Año")+  
 scale\_x\_discrete(labels = waves3)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



## En Chile, las diferencias de ingreso son demasiado grandes

* Todas las olas

#if (!require("pacman")) install.packages("pacman") # instalar pacman  
 # cargar librerias  
pacman::p\_load(dplyr, # Manipulacion de datos  
 knitr,  
 kableExtra,  
 summarytools,  
 ggplot2,  
 sjPlot,  
 tidyverse,  
 ggalluvial,  
 survey,  
 shadowtext,  
 srvyr,  
 interactions  
 )  
load(file = here::here("input/data-proc/df\_study1\_long\_t7.RData"))  
  
# generate analytical sample  
df\_study1 <-   
 df\_study1\_long\_t7 %>%  
 select(idencuesta,ola,perc\_des, edad, sexo, pos\_id, educ, universitaria, ponderador\_long\_total) %>%   
 na.omit() %>%   
 mutate(ola\_num=as.numeric(ola),  
 ola=as.factor(ola),  
 edad = case\_when(edad <=23~"Entre 18 y 23",  
 edad >23 & edad <=28 ~ "Entre 24 y 28",  
 edad >28 & edad <=45 ~ "Entre 29 y 45",  
 edad > 45 ~ "Más de 45"))   
df\_study1$edad <- factor(df\_study1$edad, levels = c("Más de 45", "Entre 29 y 45", "Entre 24 y 28", "Entre 18 y 23"))  
df\_study1$sexo <- factor(df\_study1$sexo, levels = c(1, 2), labels = c("Hombre", "Mujer"))  
  
marchar.null <- lmer(formula(paste0("perc\_des~","1 + (1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar1 <- lmer(formula(paste0("perc\_des~",h1,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar2 <- lmer(formula(paste0("perc\_des~",h2,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar3 <- lmer(formula(paste0("perc\_des~",h3,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar4 <- lmer(formula(paste0("perc\_des~",h4,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar5 <- lmer(formula(paste0("perc\_des~",h5,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar6 <- lmer(formula(paste0("perc\_des~",h6,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar7 <- lmer(formula(paste0("perc\_des~",h7,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar8 <- lmer(formula(paste0("perc\_des~",h8,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar9 <- lmer(formula(paste0("perc\_des~",h9,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar10 <- lmer(formula(paste0("perc\_des~",h10,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar11 <- lmer(formula(paste0("perc\_des~",h11,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)  
marchar12 <- lmer(formula(paste0("perc\_des~",h12,"+(1|idencuesta)")),data = df\_study1, weights = ponderador\_long\_total)

texreg::knitreg(list(marchar1, marchar2, marchar3, marchar4, marchar5, marchar6, marchar7, marchar8, marchar9, marchar10, marchar11),  
 custom.note = "\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05")

### interacciones

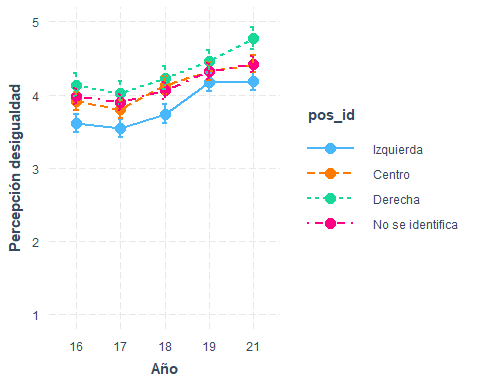
interact\_plot(marchar6, pred = ola, modx = edad, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Percepción desigualdad", x="Año")+  
 scale\_x\_discrete(labels = waves)

interact\_plot(marchar7, pred = ola, modx = sexo, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Percepción desigualdad", x="Año")+  
 scale\_x\_discrete(labels = waves)

interact\_plot(marchar8, pred = ola, modx = educ, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Percepción desigualdad", x="Año")+  
 scale\_x\_discrete(labels = waves)

interact\_plot(marchar9, pred = ola, modx = pos\_id, interval = TRUE)+  
 ylim(1,5)+  
 labs(y="Percepción desigualdad", x="Año")+  
 scale\_x\_discrete(labels = waves)

✖ Detected factor predictor.  
ℹ Plotting with cat\_plot() instead.  
ℹ See `?interactions::cat\_plot()` for full details on how to specify models  
 with categorical predictors.  
ℹ If you experience errors or unexpected results, try using cat\_plot()  
 directly.  
Scale for x is already present.  
Adding another scale for x, which will replace the existing scale.



preds <- ggpredict(marchar10, terms = c("ola", "edad", "pos\_id"))  
  
ggplot(preds, aes(x = x, y = predicted, color = group, group = group)) +  
 geom\_line() +  
 geom\_point() +  
 geom\_errorbar(aes(ymin = conf.low, ymax = conf.high), width = 0.2) +  
 facet\_wrap(~ facet, ncol = 2) +  
 labs(  
 x = "Año",  
 y = "Percepción desigualdad",  
 color = "Edad"  
 ) +  
 ylim(1, 5) +  
 scale\_x\_discrete(labels = waves) +   
 theme\_minimal() +  
 theme(legend.position = "bottom")

interact\_plot(marchar11, pred = ola, modx = edad, mod2 = educ, interval = TRUE)+  
 ylim(1,5.2)+  
 labs(y="Percepción desigualdad", x="Año")+  
 scale\_x\_discrete(labels = waves)