Analysis 2: Supplemental Analysis with Original and Mail-In Data (Movers)

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Analytical Strategy

Variables

- Outcome: Foreigner Suffrage (min 0, max 1)
- Mediator 1: (Objective) Political Knowledge (min = 0, max = 1)
- Mediator 2: Ideology (min 0 = left/liberal, max 1 = right/conservative)
- Mediator 3: LDP DPJ FT (min 0 = favor DPJ, max 1 = favor LDP)
- Mediator 4: Favorability of South Korea (min = 0, max = 1)
- Mediator 5: Favorability of China (min = 0, max = 1)
- Mediator 6: Favorability of USA (min = 0, max = 1)
- Mediator 7: Income (percentile, min = 0, max = 1)
- Independent Variable: University Education (0 = Junior College or Less, 1 = University or More)
- Moderator 1: Gender (0 = Female, 1 = Male), This means that all "base" coefficients are for female.
- Moderator 2: Age (by 10 years, centered at 20). Reasoning: Two trends may influence the role of university education. (1) There is an evident increase in number of university graduates over the years, especially among women. This trend may impies that university experience may be more gendered in the past than today. (2) There is a trend of "internationalization" in university education in recent days. Therefore, the diversifying and liberalizing effect of education may be stronger for younger generation.
- Control 1: Percent in life residing locally. More locally-identified individuals may dislike outsiders more.
- Control 2: (ZIP level) Residing in densely inhabited district (DID)
- Control 3: (ZIP level) Percent of foreigners in neighborhood (transformed by square root)
- Control 4: (ZIP level) Percent of university graduates in neighborhood (by 10 percent)
- Control 5: (Municipality level) Percent of residents residing in DID
- Control 6: (Municipality level) Percent of foreigners (transformed by square root)

• Control 7: (Municipality level) Percent of university graduates (by 10 percent)

Subset Data

Analysis is conducted on the following subset.

If age - years of local ZIP residence is 23 or larger. 23 is the age of graduating university (the youngest possible) in Japan. Assuming that an individual is living in the local ZIP continuously, this condition implies that one moved to the ZIP of current residence (likely) after graduating the university. This incorporates the possibility that education changes attitudes through the movement in residence.

Modeling Strategy

All models are estimated by OLS. For outcome model, alternative model is estimated by the multinomial logit model, with 3 category DV (disagree, neither, agree), with disagree as a reference category.

Robustness Check (in this file)

SIFCCT has one special survey where they conducted a survey through mail. Mail survey contains identical set of variables as online survey. So I replicated the analysis with the mail survey.

Preparation

```
## Clean Up Space
rm(list=ls())
## Set Working Directory (Automatically) ##
require(rstudioapi); require(rprojroot)
if (rstudioapi::isAvailable()==TRUE) {
  setwd(dirname(rstudioapi::getActiveDocumentContext()$path));
projdir <- find_root(has_file("thisishome.txt"))</pre>
cat(paste("Working Directory Set to:\n",projdir))
## Working Directory Set to:
## /home/gentok/GoogleDrive/Projects/Fan-Gento-Lab/ForeignerJapan
setwd(projdir)
## Original Data
datadir1a <- paste0(projdir, "/data/sifcct_zip_latest_v5.rds")</pre>
datadir1b <- paste0(projdir, "/data/sifcct_zip_latest_panel_v5.rds")</pre>
datadir2 <- paste0(projdir, "/data/mail_zip_latest_v5.rds")</pre>
## packages
# devtools::install_github("gentok/estvis")
# require(estvis)
require(multiwayvcov)
require(sandwich)
require(lmtest)
require(MASS)
# devtools::install_github("tidyverse/ggplot2") # Need development version (as of Dec 31, 2019)
library(ggplot2)
require(texreg)
```

```
# require(brant)
# require(VGAM)
# require(mnet)
require(mlogit)
require(Formula)
```

Import and clean data

```
###################
## SIFCCT Online ##
###################
sifcct <- rbind(readRDS(datadir1a),readRDS(datadir1b))</pre>
## Knowledge Variable (Replaced)
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==2] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==1
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==3] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==1
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==4] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==1
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==5] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==1
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==6] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==1]
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==7] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==1
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==8] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==1
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==9] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==1
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==10] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==11] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==12] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
## Knowledge Variable (Replaced)
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==14] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==15] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==16] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==17] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==18] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==19] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==20] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==21] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==22] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==23] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct$knowledge[sifcct$panel==1 & sifcct$wave==24] <- sifcct$knowledge[sifcct$panel==1 & sifcct$wave==
sifcct <- subset(sifcct, !wave%in%c(1,23,24) & !(panel==1 & wave%in%c(1,3:12,14:24)))
table(sifcct$wave,sifcct$panel)
##
           0
##
##
```

```
9 1789
##
##
     10 1674
##
     11 1731
     12 1668
##
                Λ
##
     13 1636
              982
     14 1648
##
    15 1758
##
     16 1744
##
##
     17 1673
##
     18 1724
##
     19 1728
     20 1672
##
                0
     21 1717
##
     22 1787
##
## sreq with no population as NA
sifcct$c10_sreg_pop[which(sifcct$c10_sreg_pop==0)] <- NA</pre>
## Income Missing Percentage (8.9%)
table(is.na(sifcct$income))/sum(table(is.na(sifcct$income)))
##
##
        FALSE
                    TRUE
## 0.91032911 0.08967089
## Exclude Missing Values
sifcctx <- sifcct[,c("id","foreignsuff","foreignsuff3","foreignsuff3x",</pre>
                      "knowledge", "polint", "ideology", "ldpdpjft",
                      "familiarityFT_KOR", "familiarityFT_CHN", "familiarityFT_USA",
                      # "evecon", "evecon_verybad", "evecon_bad", "evecon_notbad", "evecon_qtype",
                      "income", #"employed",
                      "female", "male", "edu", "edu2", "age", "agecat", "bornyr",
                      "lvlen", "lvpr",
                      "zip_did", "c10_sreg_foreignN", "c10_sreg_pop",
                      "c10_sreg_edu_ugsP", "c10_sreg_edu_ugs", "c10_sreg_edu_graduated",
                      "didper", "c10_mun_foreignN", "c10_mun_pop",
                      "c10_mun_edu_ugsP", "c10_mun_edu_ugs", "c10_mun_edu_graduated",
                      "zip", "c10_name_pref", "c10_name_mun", "c10_name_sreg",
                      "zip_lat", "zip_lon",
                      "wave", "panel")]
sifcctx <- na.omit(sifcctx)</pre>
nrow(sifcctx)
## [1] 34703
## Add Income and fper
sifcctx$income <- sifcct$income[match(paste(sifcctx$id,sifcctx$wave),paste(sifcct$id,sifcct$wave))]
summary(sifcctx$income)
      Min. 1st Qu. Median
##
                               Mean 3rd Qu.
## 0.04098 0.18484 0.40915 0.50079 0.78565 0.97505
sifcctx$fper <- sifcct$fper[match(paste(sifcctx$id,sifcctx$wave),paste(sifcct$id,sifcct$wave))]
summary(sifcctx$fper)
##
       Min. 1st Qu.
                        Median
                                   Mean 3rd Qu.
## 0.03136 0.77811 1.35848 1.79431 2.24808 28.08225
```

```
## Replace Data
sifcct <- sifcctx</pre>
rm(sifcctx)
nrow(sifcct[which(sifcct$age - sifcct$lvlen>=23),])
## [1] 24147
#################
## SIFCCT Mail ##
#################
mail <- readRDS(datadir2)</pre>
## sreq with no population as NA
mail$c10_sreg_pop[which(mail$c10_sreg_pop==0)] <- NA</pre>
## Exclude Missing Values
mailx <- mail[,c("id","foreignsuff","foreignsuff3","foreignsuff3x",</pre>
                  "knowledge", "polint", "ideology", "ldpdpjft",
                  "familiarityFT_KOR", "familiarityFT_CHN", "familiarityFT_USA",
                  # "evecon", "evecon_verybad", "evecon_bad", "evecon_notbad", "evecon_qtype",
                  # "income", "employed",
                  "female", "male", "edu", "edu2", "age", "agecat", "bornyr",
                  "lvlen", "lvpr",
                  "zip_did", "c10_sreg_foreignN", "c10_sreg_pop",
                  "c10_sreg_edu_ugsP", "c10_sreg_edu_ugs", "c10_sreg_edu_graduated",
                  "didper", "c10_mun_foreignN", "c10_mun_pop",
                  "c10_mun_edu_ugsP", "c10_mun_edu_ugs", "c10_mun_edu_graduated",
                  "zip", "c10 name pref", "c10 name mun", "c10 name sreg",
                  "zip_lat", "zip_lon")]
mailx <- na.omit(mailx)</pre>
nrow(mailx)
## [1] 1000
## Add Income & fper
mailx$income <- mail$income[match(paste(mailx$id),paste(mail$id))]</pre>
summary(mailx$income)
      Min. 1st Qu. Median
                               Mean 3rd Qu.
                                                         NA's
## 0.05033 0.23742 0.48322 0.53321 0.82203 0.98067
                                                          105
mailx$fper <- mail$fper[match(paste(mailx$id),paste(mail$id))]</pre>
summary(mailx$fper)
      Min. 1st Qu. Median
                               Mean 3rd Qu.
## 0.0000 0.6821 1.2061 1.5734 1.9266 10.9614
## Replace Data
mail <- mailx
rm(mailx)
```

Recoding Variables

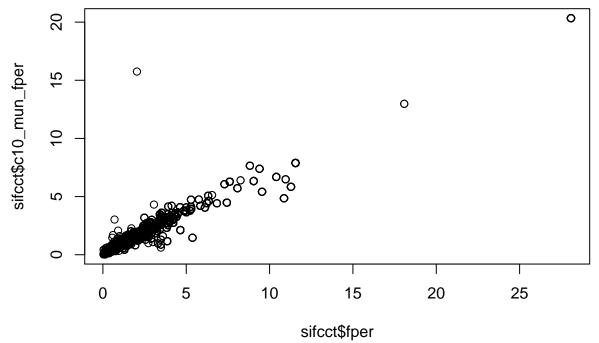
```
## SIFCCT ##

## Binary Age Cohort (50s or over)
sifcct$age2 <- ifelse(sifcct$age >= 50, 1, 0)
sifcct$agex <- sifcct$age/10 - 4.5

## Small Region Foreiner Percent
sifcct$c10_sreg_fper <- sifcct$c10_sreg_foreignN/sifcct$c10_sreg_pop*100

## Municipality Foreigner Percent
sifcct$c10_mun_fper <- sifcct$c10_mun_foreignN/sifcct$c10_mun_pop*100

## Compare Census and Foreinger Registry Numbers
plot(sifcct$fper, sifcct$c10_mun_fper)</pre>
```



```
cor(sifcct$fper, sifcct$c10_mun_fper, use="pairwise")
## [1] 0.972352
plot(sifcct$c10_mun_fper, sifcct$c10_sreg_fper)
```

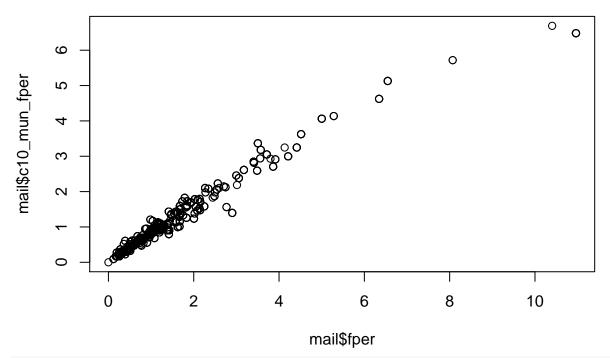
```
0
       80
sifcct$c10_sreg_fper
       9
       40
                              0
                                                                                                            0
       20
                                                                                                            00000
                                                                                       0
                                                                           00
       0
                 0
                                       5
                                                             10
                                                                                   15
                                                                                                         20
                                                 sifcct$c10_mun_fper
```

```
cor(sifcct$c10_mun_fper, sifcct$c10_sreg_fper, use="pairwise")
```

```
## [1] 0.6087222
## MAIL ##

## Binary Age Cohort (50s or over)
mail$age2 <- ifelse(mail$age >= 50, 1, 0)
mail$agex <- mail$age/10 - 4.5
## Small Region Foreiner Percent
mail$c10_sreg_fper <- mail$c10_sreg_foreignN/mail$c10_sreg_pop*100
## Municipality Foreigner Percent
mail$c10_mun_fper <- mail$c10_mun_foreignN/mail$c10_mun_pop*100
## Compare Census and Foreinger Registry Numbers</pre>
```

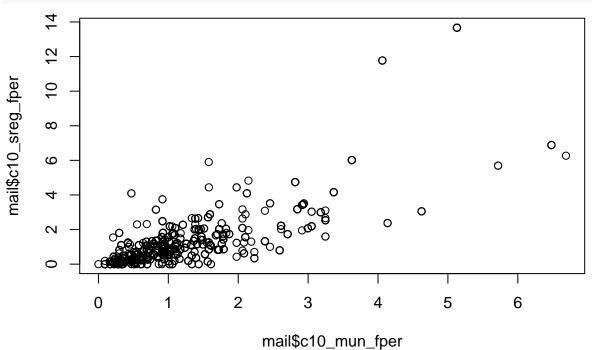
plot(mail\$fper, mail\$c10_mun_fper)



cor(mail\$fper, mail\$c10_mun_fper, use="pairwise")

[1] 0.9782127

plot(mail\$c10_mun_fper, mail\$c10_sreg_fper)



cor(mail\$c10_mun_fper, mail\$c10_sreg_fper, use="pairwise")

[1] 0.7526452

Formula (SIFCCT)

```
basemod0 <- formula( ~ edu2*male*agex + lvpr +</pre>
                        as.factor(wave)) # sifcct
basemodA <- formula( ~ edu2*male*agex + lvpr +</pre>
                        zip_did + sqrt(c10_sreg_fper) + I(c10_sreg_edu_ugsP/10) +
                        as.factor(wave)) # sifcct
basemodB <- formula( ~ edu2*male*agex + lvpr +</pre>
                        didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10) +
                        as.factor(wave)) # sifcct
basemodC <- formula( ~ edu2*male*agex + lvpr +</pre>
                        zip_did + sqrt(c10_sreg_fper) + I(c10_sreg_edu_ugsP/10) +
                        didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10) +
                        as.factor(wave)) # sifcct
## Formula (SIFCCT.mlogit) ##
outmod0.mlogit <- Formula(foreignsuff3x ~ 0 | edu2*male*agex + lvpr +
                            as.factor(wave)) # sifcct
outmodA.mlogit <- Formula(foreignsuff3x ~ 0 | edu2*male*agex + lvpr +
                            zip_did + sqrt(c10_sreg_fper) + I(c10_sreg_edu_ugsP/10) +
                            as.factor(wave)) # sifcct
outmodB.mlogit <- Formula(foreignsuff3x ~ 0 | edu2*male*agex + lvpr +
                            didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10) +
                            as.factor(wave)) # sifcct
outmodC.mlogit <- Formula(foreignsuff3x ~ 0 | edu2*male*agex + lvpr +</pre>
                            zip did + sqrt(c10 sreg fper) + I(c10 sreg edu ugsP/10) +
                            didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10) +
                            as.factor(wave)) # sifcct
## Formula (MAIL) ##
basemod0m <- formula( ~ edu2*male*agex + lvpr) # sifcct</pre>
basemodAm <- formula( ~ edu2*male*agex + lvpr +</pre>
                         zip_did + sqrt(c10_sreg_fper) + I(c10_sreg_edu_ugsP/10)) # sifcct
basemodBm <- formula( ~ edu2*male*agex + lvpr +</pre>
                         didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10)) # sifcct
basemodCm <- formula( ~ edu2*male*agex + lvpr +</pre>
                         zip_did + sqrt(c10_sreg_fper) + I(c10_sreg_edu_ugsP/10) +
                         didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10)) # sifcct
## Formula (MAIL.mlogit) ##
outmod0m.mlogit <- Formula(foreignsuff3x ~ 0 | edu2*male*agex + lvpr) # sifcct
outmodAm.mlogit <- Formula(foreignsuff3x ~ 0 | edu2*male*agex + lvpr +
                             zip_did + sqrt(c10_sreg_fper) + I(c10_sreg_edu_ugsP/10)) # sifcct
outmodBm.mlogit <- Formula(foreignsuff3x ~ 0 | edu2*male*agex + lvpr +
                             didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10)) # sifcct
outmodCm.mlogit <- Formula(foreignsuff3x ~ 0 | edu2*male*agex + lvpr +
                             zip_did + sqrt(c10_sreg_fper) + I(c10_sreg_edu_ugsP/10) +
                             didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10)) # sifcct
## Variable Names ##
vnmap <- list("edu2" = "University education",</pre>
```

```
"edu2 (1)" = "University education",
"female" = "Gender (female)",
"male" = "Gender (male)",
"male (1)" = "Gender (male)",
"age2" = "Age 50s or older",
"agex" = "Age (by 10 years, centered at 45)",
"edu2:female" = "University * Female",
"edu2:male" = "University * Male",
"edu2 (2)" = "University * Male",
"edu2:age2" = "University * >=50s",
"edu2:agex" = "University * Age",
"edu2 (3)" = "University * Age",
"edu2:female:age2" = "University * Female * >=50s",
"edu2:male:age2" = "University * Male * >=50s",
"edu2:female:agex" = "University * Female * Age",
"edu2:male:agex" = "University * Male * Age",
"edu2 (4)" = "University * Male * Age",
"female:age2" = "Female * >=50s",
"male:age2" = "Male * >=50s",
"female:agex" = "Female * Age",
"male:agex" = "Male * Age",
"male (2)" = "Male * Age",
"agecatMiddle Aged (40-50s)" = "Middle Aged (40-50s)",
"agecatElder (>=60s)" = "Elder (>=60s)",
"lvpr" = "% of Life Residing Locally (zip)",
"zip did" = "DID residence (zip)",
"sqrt(c10 sreg fper)" = "Foreigner % sqrt. (zip)",
"c10_sreg_edu_ugsP" = "University % (zip)",
"I(c10\_sreg\_edu\_ugsP/10)" = "University % by 10% (zip)",
"didper" = "DID proportion (mun.)",
"sqrt(c10_mun_fper)" = "Foreigner % sqrt. (mun.)",
"I(c10_mun_edu_ugsP/10)" = "University % by 10% (mun.)",
"c10_mun_edu_ugsP" = "University % (mun.)")
```

SIFCCT: Outcome Model

```
omit.coef = "(wave)",stars = c(0.1,0.05,0.01,0.001), symbol = "+",
custom.coef.map = vnmap,
custom.model.names = c("Base","ZIP","Municipality","Full"))
```

	Base	ZIP	Municipality	Full
University education	-0.0019	-0.0002	-0.0012	-0.0002
	(0.0063)	(0.0064)	(0.0063)	(0.0064)
Gender (male)	-0.0560 ***	-0.0566 ***	-0.0564 ***	-0.0566 ***
	(0.0076)	(0.0076)	(0.0076)	(0.0076)
Age (by 10 years, centered at 45)	-0.0126 ***	-0.0122 ***	-0.0124 ***	-0.0123 ***
	(0.0034)	(0.0034)	(0.0034)	(0.0034)
University * Male	-0.0208 *	-0.0204 *	-0.0206 *	-0.0205 *
	(0.0098)	(0.0098)	(0.0098)	(0.0098)
University * Age	0.0125 *	0.0122 *	0.0123 *	0.0122 *
	(0.0051)	(0.0051)	(0.0051)	(0.0051)
University * Male * Age	-0.0045	-0.0041	-0.0043	-0.0041
	(0.0076)	(0.0076)	(0.0076)	(0.0076)
Male * Age	0.0170 **	0.0166 **	0.0167 **	0.0166 **
_	(0.0057)	(0.0057)	(0.0057)	(0.0057)
% of Life Residing Locally (zip)	-0.0276 +	-0.0307 *	-0.0290 +	-0.0305 *
	(0.0149)	(0.0149)	(0.0149)	(0.0150)
DID residence (zip)		-0.0162 **		-0.0190 **
		(0.0056)		(0.0066)
Foreigner % sqrt. (zip)		-0.0037		-0.0021
		(0.0039)		(0.0054)
University % by 10% (zip)		-0.0001		-0.0024
· · · · · · · · · · · · · · · · · · ·		(0.0025)		(0.0036)
DID proportion (mun.)			-0.0103	0.0077
			(0.0101)	(0.0119)
Foreigner % sqrt. (mun.)			-0.0071	-0.0049
-			(0.0053)	(0.0074)
University % by 10% (mun.)			0.0012	0.0036
			(0.0038)	(0.0052)
R^2	0.0122	0.0127	0.0124	0.0128
Adj. R^2	0.0110	0.0115	0.0111	0.0114
Num. obs.	24147	24147	24147	24147

SIFCCT: Outcome Model 2

```
## Living in Local ZIP since at least age 15 ##

# require(nnet)
# smo2_10 \leftarrow multinom(update(foreignsuff3x \sim ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1A \leftarrow multinom(update(foreignsuff3x \sim ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1B \leftarrow multinom(update(foreignsuff3x \sim ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # <math>smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # \\ smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # \\ smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> # \\ smo2_1C \leftarrow multinom(update(foreignsuff3x \sim ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen> #
```

```
sifcct.mlogit <- dfidx(sifcct[which(sifcct$age - sifcct$lvlen>=23),],
                       shape = "wide", choice = "foreignsuff3x")
# levels(sifcct.mlogit$idx$id2) <- c("Disagree", "Neither", "Agree")</pre>
smo2_10 <- mlogit(outmod0.mlogit, data=sifcct.mlogit, reflevel="Disagree")</pre>
smo2_1A <- mlogit(outmodA.mlogit, data=sifcct.mlogit, reflevel="Disagree")</pre>
smo2_1B <- mlogit(outmodB.mlogit, data=sifcct.mlogit, reflevel="Disagree")</pre>
smo2_1C <- mlogit(outmodC.mlogit, data=sifcct.mlogit, reflevel="Disagree")</pre>
screenreg(list(smo2_10,smo2_1A), digits = 4, #single.row = T,
          override.se = list(coeftest(smo2_10,vcov=sandwich)[grep(":Neither",names(coef(smo2_10))),2],
                              coeftest(smo2_10,vcov=sandwich)[grep(":Agree",names(coef(smo2_10))),2],
                              coeftest(smo2_1A,vcov=sandwich)[grep(":Neither",names(coef(smo2_1A))),2],
                              coeftest(smo2_1A,vcov=sandwich)[grep(":Agree",names(coef(smo2_1A))),2]),
          override.pvalues = list(coeftest(smo2_10,vcov=sandwich)[grep(":Neither",names(coef(smo2_10)))
                                   coeftest(smo2_10,vcov=sandwich)[grep(":Agree",names(coef(smo2_10))),4
                                   coeftest(smo2_1A,vcov=sandwich)[grep(":Neither",names(coef(smo2_1A)))
                                   coeftest(smo2_1A,vcov=sandwich)[grep(":Agree",names(coef(smo2_1A))),4
          beside = T,
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.model.names = c("Base: Agree", "Base: Neither",
                                  "ZIP: Agree", "ZIP: Neither"),
          custom.coef.map = vnmap)
```

##					
##			Base: Neither	ZIP: Agree	ZIP: Neither
		0.0063 ***	-0.3391	0.0199 ***	-0.3256
##		(0.0498)	(0.0503)	(0.0503)	(0.0508)
##	Gender (male)	-0.3609 ***	-0.5868 ***	-0.3662 ***	-0.5918 **
##		(0.0563)	(0.0580)	(0.0563)	(0.0581)
##	Age (by 10 years, centered at 45)	-0.0835 ***	-0.1487 **	-0.0807 ***	-0.1470 **
##		(0.0271)	(0.0281)	(0.0272)	(0.0281)
##	University * Male	-0.1262	0.0215 +	-0.1232	0.0239 +
##		(0.0734)	(0.0738)	(0.0734)	(0.0738)
##	University * Age	0.0947 *	0.1007 *	0.0927 *	0.0997 *
##		(0.0398)	(0.0402)	(0.0398)	(0.0402)
##	University * Male * Age	-0.0331	-0.0377	-0.0301	-0.0370
##		(0.0569)	•	(0.0569)	(0.0564)
##	Male * Age	0.1272	0.0550 **	0.1244	
##		(0.0428)	(0.0431)	(0.0428)	(0.0431)
	<pre>% of Life Residing Locally (zip)</pre>	-0.2106	-0.0032 +		-0.0243 *
##		(0.1123)	(0.1081)	(0.1128)	(0.1085)
##	DID residence (zip)			-0.1274	
##				(0.0418)	
	Foreigner % sqrt. (zip)			-0.0176	-0.0425
##				(0.0290)	
##	University % by 10% (zip)			-0.0036	-0.0168
##				(0.0185)	(0.0183)
	AIC		51942.8378	51938.2602	51938.2602
	Log Likelihood	-25913.4189		-25905.1301	
	Num. obs.			24147	24147
##	K	3	3	3	3

##	· · ===================================				
##		Mun.: Agree	Mun.: Neither	Full: Agree	Full: Neither
	University education	0.0126 ***		0.0197 ***	-0.3261
##		(0.0502)	(0.0506)	(0.0503)	(0.0508)
##	Gender (male)	-0.3639 ***	-0.5893 ***	-0.3657 ***	-0.5914 ***
##		(0.0563)	(0.0581)	(0.0563)	(0.0581)
##	Age (by 10 years, centered at 45)	-0.0823 ***	-0.1478 **	-0.0813 ***	-0.1472 **
##		(0.0272)	(0.0281)	(0.0272)	(0.0281)
##	University * Male	-0.1245	0.0226 +	-0.1238	0.0237 +
##		(0.0734)	(0.0738)	(0.0734)	(0.0738)
##	University * Age	0.0935 *	0.1001 *	0.0932 *	0.1004 *
##		(0.0398)	(0.0402)	(0.0398)	(0.0402)
##	University * Male * Age	-0.0317	-0.0369	-0.0306	-0.0381
##		(0.0569)	(0.0563)	(0.0569)	(0.0563)
##	Male * Age	0.1256	0.0543 **	0.1248	0.0541 **
##		(0.0428)	(0.0431)	(0.0428)	(0.0431)
##	% of Life Residing Locally (zip)	-0.2215	-0.0098 *	-0.2318	-0.0260 *
##		(0.1126)	(0.1083)	(0.1130)	(0.1087)
##	DID residence (zip)			-0.1480	-0.0490 **
##				(0.0494)	(0.0483)
##	Foreigner % sqrt. (zip)			-0.0169 +	-0.0685
##	-			(0.0403)	(0.0391)
##	University % by 10% (zip)			-0.0157	-0.0262
##				(0.0263)	(0.0261)
##	DID proportion (mun.)	-0.0794	-0.0162	0.0607	0.0327
##		(0.0752)	(0.0739)	(0.0887)	(0.0871)
##	Foreigner % sqrt. (mun.)	-0.0296	-0.0201	-0.0114	0.0436
##		(0.0394)	(0.0388)	(0.0539)	(0.0536)
##	University % by 10% (mun.)	0.0003	-0.0162	0.0163	0.0113
##		(0.0280)	(0.0275)	(0.0384)	(0.0380)
	AIC	51951.2486			
	Log Likelihood	-25911.6243		-25904.0117	-25904.0117
	Num. obs.	24147	24147	24147	24147
##	K	3	3	3	3

SIFCCT: Mediator Models

Knowledge

```
smm01_10 <- lm(update(knowledge ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm01_1A <- lm(update(knowledge ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm01_1B <- lm(update(knowledge ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm01_1C <- lm(update(knowledge ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(smm01_10,smm01_1A,smm01_1B,smm01_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(smm01_10,vcov.=vcovHC(smm01_10))[,2],
                             coeftest(smm01_1A,vcov.=vcovHC(smm01_1A))[,2],
                             coeftest(smm01_1B,vcov.=vcovHC(smm01_1B))[,2],
                             coeftest(smm01_1C,vcov.=vcovHC(smm01_1C))[,2]),
          override.pvalues = list(coeftest(smm01 10,vcov.=vcovHC(smm01 10))[,4],
                                  coeftest(smm01_1A,vcov.=vcovHC(smm01_1A))[,4],
                                  coeftest(smm01 1B,vcov.=vcovHC(smm01 1B))[,4],
                                  coeftest(smm01_1C,vcov.=vcovHC(smm01_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base", "ZIP", "Municipality", "Full"))
```

##	Base	ZIP	Municipality	Full
## University education		0.1438 ***	0.1467 ***	0.1436 ***
##	(0.0058)	(0.0059)	(0.0059)	(0.0059)
## Gender (male)	0.1738 ***	0.1781 ***	0.1767 ***	0.1780 ***
##	(0.0069)	(0.0069)	(0.0069)	(0.0069)
## Age (by 10 years, centered at 45)	0.0668 ***	0.0656 ***	0.0658 ***	0.0655 ***
##	(0.0032)	(0.0032)	(0.0032)	(0.0032)
## University * Male	0.0035	0.0017	0.0023	0.0018
##	(0.0088)	(0.0087)	(0.0087)	(0.0087)
## University * Age	-0.0119 *	-0.0123 **	-0.0116 *	-0.0121 **
##	(0.0047)	(0.0047)	(0.0047)	(0.0047)
## University * Male * Age	-0.0238 ***	-0.0238 ***	-0.0244 ***	-0.0240 ***
##	(0.0065)	(0.0065)	(0.0065)	(0.0065)
## Male * Age	0.0196 ***	0.0199 ***	0.0200 ***	0.0199 ***
##	(0.0050)	(0.0049)	(0.0049)	(0.0049)
## % of Life Residing Locally (zip)	-0.0369 **	-0.0235 +	-0.0307 *	-0.0250 *
##	(0.0127)	(0.0127)	(0.0127)	(0.0127)
## DID residence (zip)		0.0079 +		0.0108 +
##		(0.0047)		(0.0056)
## Foreigner % sqrt. (zip)		0.0092 **		0.0068
##		(0.0032)		(0.0046)
## University % by 10% (zip)		0.0234 ***		0.0179 ***
##		(0.0021)		(0.0030)
## DID proportion (mun.)			-0.0041	-0.0135
##			(0.0086)	(0.0101)
## Foreigner % sqrt. (mun.)			0.0086 +	0.0028

```
(0.0044)
                                                    (0.0061)
##
## University % by 10% (mun.)
                                           0.0298 ***
                                                    0.0118 **
                                          (0.0032)
                                                    (0.0044)
## ------
## R^2
                        0.2267
                                 0.2325
                                           0.2312
                                                    0.2328
## Adj. R^2
                        0.2258
                                 0.2315
                                          0.2302
                                                    0.2317
## Num. obs.
                      24147
                               24147
                                        24147
## -----
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Ideology

```
smm02_10 <- lm(update(ideology ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm02_1A <- lm(update(ideology ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm02_1B <- lm(update(ideology ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm02_1C <- lm(update(ideology ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(smm02_10,smm02_1A,smm02_1B,smm02_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(smm02_10,vcov.=vcovHC(smm02_10))[,2],
                             coeftest(smm02_1A,vcov.=vcovHC(smm02_1A))[,2],
                             coeftest(smm02_1B,vcov.=vcovHC(smm02_1B))[,2],
                             coeftest(smm02_1C,vcov.=vcovHC(smm02_1C))[,2]),
          override.pvalues = list(coeftest(smm02 10,vcov.=vcovHC(smm02 10))[,4],
                                  coeftest(smm02_1A,vcov.=vcovHC(smm02_1A))[,4],
                                  coeftest(smm02 1B,vcov.=vcovHC(smm02 1B))[,4],
                                  coeftest(smm02_1C,vcov.=vcovHC(smm02_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base", "ZIP", "Municipality", "Full"))
```

## Gender (male)	
## University education	
## Gender (male)	.0129 ***
## Age (by 10 years, centered at 45)	.0039)
## Age (by 10 years, centered at 45) -0.0082 *** -0.0083 *** -0.0081 *** -0	.0379 ***
	.0052)
(0.0000) (0.0000) (0.0000) (0.0000)	.0082 ***
## (0.0022) (0.0022) (0.0022) (0	.0022)
## University * Male 0.0229 *** 0.0229 *** 0.0230 *** 0	.0230 ***
## (0.0065) (0.0065) (0.0065) (0	.0065)
## University * Age -0.0061 + -0.0059 + -0.0061 + -0	.0060 +
## (0.0032) (0.0032) (0.0032)	.0032)
## University * Male * Age -0.0025 -0.0028 -0.0024 -0	.0026
## (0.0050) (0.0050) (0.0050)	.0050)
## Male * Age 0.0144 *** 0.0146 *** 0.0144 ***	.0145 ***
## (0.0039) (0.0039) (0.0039)	.0039)
## % of Life Residing Locally (zip) 0.0184 + 0.0184 + 0.0178 + 0	.0182 +
## (0.0098) (0.0098) (0.0098)	.0098)
## DID residence (zip) 0.0096 ** 0	.0144 ***
## (0.0036) (0	.0043)
## Foreigner % sqrt. (zip) -0.0017 0	.0001
## (0.0025) (0	.0035)
## University % by 10% (zip) -0.0023 -0	.0003

```
(0.0016)
##
                                                                                              (0.0023)
## DID proportion (mun.)
                                                                            -0.0009
                                                                                             -0.0146 +
                                                                                             (0.0077)
                                                                             (0.0065)
## Foreigner % sqrt. (mun.)
                                                                            -0.0012
                                                                                             -0.0016
                                                                             (0.0035)
                                                                                             (0.0047)
## University % by 10% (mun.)
                                                                            -0.0023
                                                                                             -0.0020
                                                                             (0.0024)
                                                                                             (0.0033)
## ----
## R^2
                                            0.0069
                                                             0.0072
                                                                             0.0069
                                                                                              0.0074
                                                             0.0059
                                                                                              0.0060
## Adj. R^2
                                            0.0057
                                                                             0.0057
## Num. obs.
                                        24147
                                                        24147
                                                                         24147
                                                                                          24147
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

LDP - DPJ FT

```
smm03_10 <- lm(update(ldpdpjft ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm03_1A <- lm(update(ldpdpjft ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm03_1B <- lm(update(ldpdpjft ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm03_1C <- lm(update(ldpdpjft ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(smm03_10,smm03_1A,smm03_1B,smm03_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(smm03 10,vcov.=vcovHC(smm03 10))[,2],
                             coeftest(smm03_1A,vcov.=vcovHC(smm03_1A))[,2],
                             coeftest(smm03 1B,vcov.=vcovHC(smm03 1B))[,2],
                             coeftest(smm03_1C,vcov.=vcovHC(smm03_1C))[,2]),
          override.pvalues = list(coeftest(smm03_10,vcov.=vcovHC(smm03_10))[,4],
                                  coeftest(smm03 1A,vcov.=vcovHC(smm03 1A))[,4],
                                  coeftest(smm03 1B,vcov.=vcovHC(smm03 1B))[,4],
                                  coeftest(smm03_1C,vcov.=vcovHC(smm03_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base", "ZIP", "Municipality", "Full"))
```

## ============		===========	==========	==========
## ##	Base	ZIP	Municipality	Full
## University education	-0.0122 ***	-0.0131 ***	-0.0125 ***	-0.0131 ***
##	(0.0030)	(0.0030)	(0.0030)	(0.0030)
## Gender (male)	0.0195 ***	0.0198 ***	0.0197 ***	0.0198 ***
##	(0.0037)	(0.0037)	(0.0037)	(0.0037)
## Age (by 10 years, centered at	45) 0.0018	0.0016	0.0017	0.0016
##	(0.0017)	(0.0017)	(0.0017)	(0.0017)
## University * Male	0.0093 +	0.0091 +	0.0092 +	0.0091 +
##	(0.0047)	(0.0047)	(0.0047)	(0.0047)
## University * Age	-0.0097 ***	-0.0095 ***	-0.0096 ***	-0.0096 ***
##	(0.0025)	(0.0025)	(0.0025)	(0.0025)
## University * Male * Age	0.0028	0.0027	0.0027	0.0027
##	(0.0038)	(0.0038)	(0.0038)	(0.0038)
## Male * Age	-0.0072 *	-0.0070 *	-0.0070 *	-0.0070 *
##	(0.0029)	(0.0029)	(0.0029)	(0.0029)
## % of Life Residing Locally (z	ip) -0.0062	-0.0046	-0.0056	-0.0043
##	(0.0075)	(0.0075)	(0.0075)	(0.0075)
## DID residence (zip)		0.0062 *		0.0071 *

```
##
                                                      (0.0028)
                                                                                     (0.0033)
## Foreigner % sqrt. (zip)
                                                       0.0038 *
                                                                                     0.0049 +
                                                      (0.0019)
                                                                                     (0.0027)
## University % by 10% (zip)
                                                       0.0001
                                                                                     0.0018
                                                      (0.0012)
                                                                                     (0.0018)
## DID proportion (mun.)
                                                                      0.0050
                                                                                     -0.0019
                                                                      (0.0049)
                                                                                     (0.0058)
## Foreigner % sqrt. (mun.)
                                                                      0.0036
                                                                                     -0.0010
##
                                                                     (0.0026)
                                                                                     (0.0036)
## University % by 10% (mun.)
                                                                     -0.0011
                                                                                     -0.0031
                                                                     (0.0018)
                                                                                     (0.0025)
## --
## R^2
                                        0.1203
                                                       0.1207
                                                                      0.1204
                                                                                      0.1208
                                                                                      0.1196
## Adj. R^2
                                        0.1192
                                                       0.1196
                                                                      0.1193
## Num. obs.
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Favorability of South Korea

```
smm04_10 <- lm(update(familiarityFT_KOR ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
smm04_1A <- lm(update(familiarityFT_KOR ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
smm04_1B <- lm(update(familiarityFT_KOR ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
smm04_1C <- lm(update(familiarityFT_KOR ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
screenreg(list(smm04_10,smm04_1A,smm04_1B,smm04_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(smm04_10,vcov.=vcovHC(smm04_10))[,2],
                             coeftest(smm04 1A,vcov.=vcovHC(smm04 1A))[,2],
                             coeftest(smm04 1B,vcov.=vcovHC(smm04 1B))[,2],
                             coeftest(smm04_1C,vcov.=vcovHC(smm04_1C))[,2]),
          override.pvalues = list(coeftest(smm04_10,vcov.=vcovHC(smm04_10))[,4],
                                  coeftest(smm04_1A,vcov.=vcovHC(smm04_1A))[,4],
                                  coeftest(smm04_1B,vcov.=vcovHC(smm04_1B))[,4],
                                  coeftest(smm04_1C,vcov.=vcovHC(smm04_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base","ZIP","Municipality","Full"))
```

ππ				
## ====================================				=========
##	Base	ZIP	Municipality	Full
##				
## University education	0.0100 *	0.0104 *	0.0099 +	0.0103 *
##	(0.0050)	(0.0051)	(0.0050)	(0.0051)
## Gender (male)	-0.0589 ***	-0.0591 ***	-0.0590 ***	-0.0591 ***
##	(0.0057)	(0.0057)	(0.0057)	(0.0058)
## Age (by 10 years, centered at 45)	-0.0015	-0.0014	-0.0015	-0.0014
##	(0.0027)	(0.0027)	(0.0027)	(0.0027)
## University * Male	0.0077	0.0078	0.0078	0.0078
##	(0.0074)	(0.0074)	(0.0074)	(0.0074)
## University * Age	-0.0001	-0.0002	-0.0001	-0.0001
##	(0.0040)	(0.0040)	(0.0040)	(0.0040)
## University * Male * Age	0.0004	0.0006	0.0005	0.0005
##	(0.0057)	(0.0057)	(0.0057)	(0.0057)
## Male * Age	0.0272 ***	0.0271 ***	0.0272 ***	0.0271 ***

```
##
                                      (0.0043)
                                                    (0.0043)
                                                                   (0.0043)
                                                                                  (0.0043)
## % of Life Residing Locally (zip)
                                     -0.0209 +
                                                                   -0.0215 *
                                                    -0.0218 *
                                                                                  -0.0222 *
                                     (0.0108)
                                                    (0.0109)
                                                                   (0.0108)
                                                                                  (0.0109)
## DID residence (zip)
                                                    -0.0083 *
                                                                                  -0.0082 +
                                                    (0.0041)
                                                                                  (0.0049)
## Foreigner % sqrt. (zip)
                                                     0.0004
                                                                                  -0.0023
                                                    (0.0028)
                                                                                  (0.0039)
## University % by 10% (zip)
                                                     0.0005
                                                                                  -0.0009
##
                                                    (0.0018)
                                                                                  (0.0026)
## DID proportion (mun.)
                                                                   -0.0092
                                                                                  -0.0013
                                                                   (0.0073)
                                                                                  (0.0087)
## Foreigner % sqrt. (mun.)
                                                                    0.0025
                                                                                  0.0048
                                                                   (0.0039)
                                                                                  (0.0052)
## University % by 10% (mun.)
                                                                                  0.0026
                                                                    0.0016
                                                                   (0.0027)
                                                                                  (0.0038)
##
## R^2
                                      0.0684
                                                     0.0686
                                                                                   0.0686
                                                                    0.0685
## Adj. R^2
                                      0.0673
                                                     0.0674
                                                                    0.0673
                                                                                   0.0673
## Num. obs.
                                  24147
                                                 24147
                                                                               24147
                                                                24147
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Favorability of China

```
smm05_10 <- lm(update(familiarityFT_CHN ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
smm05_1A <- lm(update(familiarityFT_CHN ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
smm05_1B <- lm(update(familiarityFT_CHN ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
smm05_1C <- lm(update(familiarityFT_CHN ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
screenreg(list(smm05_10,smm05_1A,smm05_1B,smm05_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(smm05_10,vcov.=vcovHC(smm05_10))[,2],
                             coeftest(smm05_1A,vcov.=vcovHC(smm05_1A))[,2],
                             coeftest(smm05_1B,vcov.=vcovHC(smm05_1B))[,2],
                             coeftest(smm05_1C,vcov.=vcovHC(smm05_1C))[,2]),
          override.pvalues = list(coeftest(smm05_10,vcov.=vcovHC(smm05_10))[,4],
                                  coeftest(smm05_1A,vcov.=vcovHC(smm05_1A))[,4],
                                  coeftest(smm05_1B,vcov.=vcovHC(smm05_1B))[,4],
                                  coeftest(smm05_1C,vcov.=vcovHC(smm05_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base", "ZIP", "Municipality", "Full"))
```

```
## -----
                                 Base
                                               7.TP
                                                             Municipality
                                                                           Full
## University education
                                    0.0201 ***
                                                  0.0196 ***
                                                                 0.0190 ***
                                                                               0.0194 ***
##
                                    (0.0043)
                                                  (0.0043)
                                                                (0.0043)
                                                                              (0.0043)
## Gender (male)
                                    -0.0137 **
                                                  -0.0136 **
                                                                -0.0134 **
                                                                              -0.0136 **
                                    (0.0049)
                                                  (0.0050)
                                                                (0.0050)
                                                                              (0.0050)
## Age (by 10 years, centered at 45)
                                    -0.0000
                                                  -0.0001
                                                                -0.0001
                                                                              -0.0001
                                    (0.0024)
                                                  (0.0024)
                                                                (0.0024)
                                                                              (0.0024)
## University * Male
                                    0.0029
                                                  0.0029
                                                                0.0028
                                                                              0.0029
                                    (0.0064)
                                                  (0.0064)
                                                                (0.0064)
                                                                              (0.0064)
## University * Age
                                   -0.0024
                                                 -0.0024
                                                                -0.0023
                                                                              -0.0022
```

```
##
                                       (0.0034)
                                                      (0.0034)
                                                                     (0.0034)
                                                                                    (0.0034)
                                       0.0014
                                                      0.0015
## University * Male * Age
                                                                     0.0014
                                                                                     0.0013
##
                                      (0.0049)
                                                      (0.0049)
                                                                     (0.0049)
                                                                                    (0.0049)
## Male * Age
                                       0.0070 +
                                                      0.0070 +
                                                                     0.0071 +
                                                                                     0.0071 +
                                      (0.0037)
                                                      (0.0037)
                                                                     (0.0037)
                                                                                    (0.0037)
## % of Life Residing Locally (zip)
                                                                     -0.0252 **
                                                                                    -0.0259 **
                                      -0.0257 **
                                                     -0.0250 **
                                      (0.0094)
                                                      (0.0094)
                                                                     (0.0094)
                                                                                    (0.0094)
## DID residence (zip)
                                                      -0.0022
                                                                                    -0.0014
##
                                                      (0.0035)
                                                                                    (0.0041)
## Foreigner % sqrt. (zip)
                                                      0.0027
                                                                                    -0.0008
                                                      (0.0024)
                                                                                    (0.0033)
## University % by 10% (zip)
                                                      0.0009
                                                                                    -0.0024
                                                      (0.0016)
                                                                                    (0.0022)
                                                                     -0.0064
## DID proportion (mun.)
                                                                                    -0.0052
                                                                     (0.0064)
##
                                                                                    (0.0075)
## Foreigner % sqrt. (mun.)
                                                                     0.0049
                                                                                    0.0055
##
                                                                     (0.0034)
                                                                                    (0.0046)
## University % by 10% (mun.)
                                                                     0.0042 +
                                                                                     0.0066 *
                                                                     (0.0024)
                                                                                    (0.0033)
## R^2
                                       0.0241
                                                      0.0242
                                                                     0.0244
                                                                                     0.0244
                                       0.0230
                                                      0.0229
## Adj. R^2
                                                                     0.0231
                                                                                     0.0231
## Num. obs.
                                   24147
                                                  24147
                                                                                 24147
                                                                  24147
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Favorability of USA

```
smm06_10 <- lm(update(familiarityFT_USA ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
smm06_1A <- lm(update(familiarityFT_USA ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
smm06_1B <- lm(update(familiarityFT_USA ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
smm06_1C <- lm(update(familiarityFT_USA ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23
screenreg(list(smm06_10,smm06_1A,smm06_1B,smm06_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(smm06_10,vcov.=vcovHC(smm06_10))[,2],
                             coeftest(smm06_1A,vcov.=vcovHC(smm06_1A))[,2],
                             coeftest(smm06_1B,vcov.=vcovHC(smm06_1B))[,2],
                             coeftest(smm06_1C,vcov.=vcovHC(smm06_1C))[,2]),
          override.pvalues = list(coeftest(smm06_10,vcov.=vcovHC(smm06_10))[,4],
                                  coeftest(smm06 1A,vcov.=vcovHC(smm06 1A))[,4],
                                  coeftest(smm06_1B,vcov.=vcovHC(smm06_1B))[,4],
                                  coeftest(smm06 1C,vcov.=vcovHC(smm06 1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base", "ZIP", "Municipality", "Full"))
```

```
##
  ______
                                         7.TP
                             Base
                                                      Municipality
## University education
                                0.0128 **
                                             0.0090 *
                                                         0.0104 *
                                                                     0.0091 *
                               (0.0041)
                                            (0.0041)
                                                        (0.0041)
                                                                     (0.0041)
## Gender (male)
                                0.0061
                                            0.0077
                                                         0.0070
                                                                     0.0077
                                (0.0052)
                                            (0.0052)
                                                         (0.0052)
                                                                     (0.0052)
                                0.0080 ***
## Age (by 10 years, centered at 45)
                                            0.0076 ***
                                                         0.0077 ***
                                                                     0.0076 ***
```

```
##
                                           (0.0023)
                                                            (0.0023)
                                                                            (0.0023)
                                                                                             (0.0023)
## University * Male
                                           0.0215 ***
                                                            0.0209 **
                                                                             0.0211 **
                                                                                              0.0209 **
##
                                           (0.0065)
                                                            (0.0065)
                                                                            (0.0065)
                                                                                             (0.0065)
## University * Age
                                           -0.0045
                                                           -0.0048
                                                                            -0.0044
                                                                                             -0.0048
##
                                           (0.0032)
                                                            (0.0032)
                                                                            (0.0032)
                                                                                             (0.0032)
## University * Male * Age
                                          -0.0034
                                                           -0.0032
                                                                            -0.0036
                                                                                             -0.0033
                                           (0.0049)
                                                            (0.0049)
                                                                            (0.0049)
                                                                                             (0.0049)
## Male * Age
                                           0.0207 ***
                                                            0.0206 ***
                                                                             0.0208 ***
                                                                                             0.0207 ***
##
                                           (0.0038)
                                                            (0.0038)
                                                                            (0.0038)
                                                                                             (0.0038)
## % of Life Residing Locally (zip)
                                           -0.0151
                                                           -0.0107
                                                                            -0.0130
                                                                                             -0.0104
                                           (0.0095)
                                                           (0.0095)
                                                                            (0.0095)
                                                                                             (0.0095)
## DID residence (zip)
                                                           -0.0036
                                                                                             -0.0058
                                                            (0.0036)
                                                                                             (0.0043)
##
                                                            0.0030
                                                                                              0.0025
## Foreigner % sqrt. (zip)
##
                                                            (0.0025)
                                                                                             (0.0034)
## University % by 10% (zip)
                                                            0.0096 ***
                                                                                              0.0098 ***
##
                                                            (0.0016)
                                                                                             (0.0023)
## DID proportion (mun.)
                                                                             0.0014
                                                                                              0.0075
##
                                                                            (0.0065)
                                                                                             (0.0076)
## Foreigner % sqrt. (mun.)
                                                                             0.0024
                                                                                              0.0006
##
                                                                            (0.0035)
                                                                                             (0.0047)
## University % by 10% (mun.)
                                                                             0.0086 ***
                                                                                             -0.0012
##
                                                                            (0.0024)
                                                                                             (0.0033)
## R^2
                                           0.0324
                                                            0.0341
                                                                             0.0334
                                                                                              0.0341
## Adj. R^2
                                           0.0313
                                                            0.0328
                                                                             0.0321
                                                                                              0.0328
                                                        24147
                                                                         24147
## Num. obs.
                                       24147
                                                                                          24147
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Income

```
smm07_10 <- lm(update(income ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm07_1A <- lm(update(income ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm07_1B <- lm(update(income ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
smm07_1C <- lm(update(income ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(smm07_10,smm07_1A,smm07_1B,smm07_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(smm07_10,vcov.=vcovHC(smm07_10))[,2],
                             coeftest(smm07 1A,vcov.=vcovHC(smm07 1A))[,2],
                             coeftest(smm07_1B,vcov.=vcovHC(smm07_1B))[,2],
                             coeftest(smm07 1C,vcov.=vcovHC(smm07 1C))[,2]),
          override.pvalues = list(coeftest(smm07_10,vcov.=vcovHC(smm07_10))[,4],
                                  coeftest(smm07_1A,vcov.=vcovHC(smm07_1A))[,4],
                                  coeftest(smm07 1B,vcov.=vcovHC(smm07 1B))[,4],
                                  coeftest(smm07 1C,vcov.=vcovHC(smm07 1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base", "ZIP", "Municipality", "Full"))
```

```
(0.0054)
                                                         (0.0053)
                                                                         (0.0053)
                                                                                         (0.0053)
##
## Gender (male)
                                         -0.0430 ***
                                                         -0.0342 ***
                                                                         -0.0374 ***
                                                                                         -0.0340 ***
                                                         (0.0058)
##
                                         (0.0059)
                                                                         (0.0058)
                                                                                         (0.0058)
## Age (by 10 years, centered at 45)
                                         -0.0049 +
                                                         -0.0072 *
                                                                         -0.0069 *
                                                                                         -0.0072 *
##
                                         (0.0028)
                                                         (0.0028)
                                                                         (0.0028)
                                                                                         (0.0028)
                                                                                          0.0351 ***
## University * Male
                                         0.0385 ***
                                                          0.0350 ***
                                                                          0.0362 ***
                                         (0.0078)
                                                         (0.0076)
                                                                         (0.0077)
                                                                                         (0.0076)
## University * Age
                                         0.0332 ***
                                                          0.0320 ***
                                                                          0.0342 ***
                                                                                          0.0325 ***
##
                                         (0.0044)
                                                         (0.0043)
                                                                         (0.0044)
                                                                                         (0.0043)
## University * Male * Age
                                         -0.0167 **
                                                         -0.0160 **
                                                                         -0.0178 **
                                                                                         -0.0168 **
                                         (0.0060)
                                                         (0.0060)
                                                                         (0.0060)
                                                                                         (0.0060)
                                                                         -0.0045
## Male * Age
                                         -0.0056
                                                         -0.0055
                                                                                         -0.0051
##
                                         (0.0043)
                                                         (0.0043)
                                                                         (0.0043)
                                                                                         (0.0043)
                                         0.1046 ***
                                                                          0.1169 ***
                                                                                          0.1279 ***
## % of Life Residing Locally (zip)
                                                          0.1305 ***
                                         (0.0127)
                                                                         (0.0126)
                                                         (0.0125)
                                                                                         (0.0125)
## DID residence (zip)
                                                         -0.0031
                                                                                         -0.0028
                                                         (0.0044)
##
                                                                                         (0.0052)
## Foreigner % sqrt. (zip)
                                                          0.0169 ***
                                                                                         -0.0042
                                                         (0.0031)
                                                                                         (0.0042)
## University % by 10% (zip)
                                                          0.0514 ***
                                                                                          0.0455 ***
##
                                                         (0.0020)
                                                                                         (0.0029)
## DID proportion (mun.)
                                                                         -0.0118
                                                                                         -0.0055
                                                                                         (0.0094)
##
                                                                         (0.0080)
## Foreigner % sqrt. (mun.)
                                                                          0.0326 ***
                                                                                          0.0386 ***
                                                                         (0.0043)
                                                                                         (0.0059)
## University % by 10% (mun.)
                                                                          0.0549 ***
                                                                                          0.0095 *
                                                                         (0.0031)
                                                                                         (0.0042)
## R^2
                                          0.0537
                                                          0.0847
                                                                          0.0765
                                                                                          0.0866
## Adj. R^2
                                          0.0526
                                                          0.0835
                                                                          0.0754
                                                                                          0.0853
## Num. obs.
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

MAIL: Outcome Model

```
## Living in Local ZIP since at least age 15 ##
mmo_10 <- lm(update(foreignsuff ~ ., basemod0m), data=mail[which(mail$age - mail$lvlen>=23),])
mmo_1A <- lm(update(foreignsuff ~ ., basemodAm), data=mail[which(mail$age - mail$lvlen>=23),])
mmo_1B <- lm(update(foreignsuff ~ ., basemodBm), data=mail[which(mail$age - mail$lvlen>=23),])
mmo_1C <- lm(update(foreignsuff ~ ., basemodCm), data=mail[which(mail$age - mail$lvlen>=23),])
screenreg(list(mmo_10,mmo_1A,mmo_1B,mmo_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(mmo_10,vcov.=vcovHC(mmo_10))[,2],
                             coeftest(mmo 1A,vcov.=vcovHC(mmo 1A))[,2],
                             coeftest(mmo_1B,vcov.=vcovHC(mmo_1B))[,2],
                             coeftest(mmo_1C,vcov.=vcovHC(mmo_1C))[,2]),
          override.pvalues = list(coeftest(mmo 10,vcov.=vcovHC(mmo 10))[,4],
                                  coeftest(mmo 1A, vcov.=vcovHC(mmo 1A))[,4],
                                  coeftest(mmo_1B,vcov.=vcovHC(mmo_1B))[,4],
                                  coeftest(mmo_1C,vcov.=vcovHC(mmo_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
```

# #	Base	ZIP	Municipality	Full
# # University education	-0.0229	-0.0260	-0.0276	-0.0283
#	(0.0514)	(0.0520)	(0.0524)	(0.0518)
# Gender (male)	-0.0666 +	-0.0596	-0.0625	-0.0564
#	(0.0384)	(0.0389)	(0.0388)	(0.0391)
# Age (by 10 years, centered at 45)	-0.0310 *	-0.0334 *	-0.0327 *	-0.0349
#	(0.0156)	(0.0156)	(0.0156)	(0.0156)
# University * Male	-0.0117	-0.0075	-0.0122	-0.0140
#	(0.0688)	(0.0688)	(0.0690)	(0.0689)
# University * Age	0.0117	0.0134	0.0136	0.0156
#	(0.0356)	(0.0354)	(0.0357)	(0.0355)
# University * Male * Age	0.0057	0.0005	-0.0006	-0.0017
#	(0.0452)	(0.0449)	(0.0452)	(0.0452)
# Male * Age	-0.0073	-0.0066	-0.0062	-0.0048
#	(0.0211)	(0.0214)	(0.0213)	(0.0214)
# % of Life Residing Locally (zip)	0.1703 +	0.1784 +	0.1816 *	0.1692
#	(0.0918)	(0.0923)	(0.0922)	(0.0926)
# DID residence (zip)		0.0415		0.0758
#		(0.0326)		(0.0405)
# Foreigner % sqrt. (zip)		-0.0610 **		-0.0666
#		(0.0208)		(0.0337)
# University % by 10% (zip)		-0.0009		-0.0183
#		(0.0137)		(0.0183)
# DID proportion (mun.)			-0.0443	-0.1297
#			(0.0577)	(0.0722)
# Foreigner % sqrt. (mun.)			-0.0729 *	0.0018
#			(0.0329)	(0.0532)
# University % by 10% (mun.)			0.0366	0.0571
#			(0.0227)	(0.0303)
#				
# R^2	0.0266	0.0371	0.0353	0.0438
# Adj. R^2	0.0158	0.0224	0.0206	0.0251
# Num. obs.	731	731	731	731

MAIL: Outcome Model 2

```
# levels(mail.mlogit$idx$id2) <- c("Disagree", "Neither", "Agree")</pre>
mmo2_10 <- mlogit(outmod0m.mlogit, data=mail.mlogit, reflevel="Disagree")
mmo2_1A <- mlogit(outmodAm.mlogit, data=mail.mlogit, reflevel="Disagree")</pre>
mmo2_1B <- mlogit(outmodBm.mlogit, data=mail.mlogit, reflevel="Disagree")
mmo2_1C <- mlogit(outmodCm.mlogit, data=mail.mlogit, reflevel="Disagree")</pre>
screenreg(list(mmo2_10,mmo2_1A), digits = 4, #single.row = T,
          override.se = list(coeftest(mmo2 10,vcov=sandwich)[grep(":Neither",names(coef(mmo2 10))),2],
                             coeftest(mmo2_10,vcov=sandwich)[grep(":Agree",names(coef(mmo2_10))),2],
                             coeftest(mmo2_1A,vcov=sandwich)[grep(":Neither",names(coef(mmo2_1A))),2],
                             coeftest(mmo2_1A,vcov=sandwich)[grep(":Agree",names(coef(mmo2_1A))),2]),
          override.pvalues = list(coeftest(mmo2_10,vcov=sandwich)[grep(":Neither",names(coef(mmo2_10))))
                                   coeftest(mmo2_10,vcov=sandwich)[grep(":Agree",names(coef(mmo2_10))),4
                                   coeftest(mmo2_1A,vcov=sandwich)[grep(":Neither",names(coef(mmo2_1A)))
                                   coeftest(mmo2_1A,vcov=sandwich)[grep(":Agree",names(coef(mmo2_1A))),4
          beside = T,
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.model.names = c("Base: Agree", "Base: Neither",
                                 "ZIP: Agree", "ZIP: Neither"),
          custom.coef.map = vnmap)
```

##		Base: Neither	ZIP: Agree	ZIP: Neither
## ## University education		-1.1971	-0.2111 **	-1.3167
##		(0.3295)		
## Gender (male)		-0.6271 +		
##	(0.3120)	(0.2846)	(0.3150)	
## Age (by 10 years, centered at 45)				
##		(0.1186)	(0.1200)	(0.1189)
## University * Male	0.0135	0.7116	0.0458	0.7193
##	(0.5467)	(0.4391)	(0.5486)	(0.4420)
## University * Age	0.0381	-0.0742	0.0369	-0.1016
##	(0.2899)	(0.2027)	(0.2889)	(0.2041)
## University * Male * Age	0.1527	0.1059	0.1362	0.1666
##	(0.3433)	(0.2646)	(0.3431)	(0.2663)
## Male * Age	-0.0460	-0.1025	-0.0490	-0.1335
##	(0.1712)	(0.1532)	(0.1712)	(0.1565)
## % of Life Residing Locally (zip)	1.1605 **	1.9066 +	1.2496 **	1.9965 *
##	(0.6555)	(0.6021)	(0.6646)	(0.6079)
## DID residence (zip)			0.2725	0.3398
##			(0.2421)	(0.2182)
## Foreigner % sqrt. (zip)			-0.3832	0.0860 *
##			(0.1684)	(0.1535)
## University % by 10% (zip)			0.0372	0.0763
## ##			(0.1086)	(0.0954)
## ## AIC		1571.2886	1569.4923	1569.4923
## Log Likelihood	-767.6443	-767.6443	-760.7462	-760.7462
## Num. obs.	731		731	731
## K	3	3	3	3

##

‡ ‡		Mun.: Neither	Full: Agree	Full: Neither
University education	-0.2141 **	-1.2204	-0.2403 **	-1.3259
‡	(0.4344)	(0.3352)	(0.4362)	(0.3330)
Gender (male)	-0.5128 +	-0.6133 +	-0.4807 +	-0.6069 +
‡	(0.3163)	(0.2894)	(0.3192)	(0.2916)
# Age (by 10 years, centered at 45)	-0.2575 +	-0.2137 *	-0.2690	-0.1959 *
‡	(0.1203)	(0.1199)	(0.1212)	(0.1201)
# University * Male	0.0096	0.6956	0.0222	0.7643
‡	(0.5484)	(0.4437)	(0.5529)	(0.4442)
# University * Age	0.0514	-0.0708	0.0520	-0.0918
‡	(0.2936)	(0.2039)	(0.2911)	(0.2044)
# University * Male * Age	0.1147	0.0835	0.1206	0.1381
‡	(0.3485)	(0.2661)	(0.3476)	(0.2676)
# Male * Age	-0.0383	-0.0920	-0.0388	-0.1338
‡	(0.1732)	(0.1552)	(0.1730)	(0.1573)
# % of Life Residing Locally (zip)	1.2404 **	1.9352 *	1.2101 **	1.9534 *
‡	(0.6532)	(0.6039)	(0.6689)	(0.6096)
DID residence (zip)			0.4926 *	0.7561 +
‡			(0.2998)	(0.2741)
Foreigner % sqrt. (zip)			-0.3635 +	0.4838
‡ · · · · · · · · · · · · · · · · · · ·			(0.2680)	(0.2385)
# University % by 10% (zip)			-0.0505	0.1518
‡			(0.1407)	(0.1271)
DID proportion (mun.)	-0.2800	-0.5226	-0.7911 *	
‡ -	(0.4207)	(0.3963)	(0.4999)	(0.5131)
Foreigner % sqrt. (mun.)	-0.4729	-0.1622 *	-0.1154 *	
‡	(0.2602)	(0.2252)	(0.4150)	(0.3568)
# University % by 10% (mun.)	0.2645	0.2493	0.3254	0.0623
ŧ	(0.1754)		(0.2220)	
# # AIC	1576.0771	1576.0771	1565.8437	1565.8437
‡ Log Likelihood	-764.0386	-764.0386	-752.9219	-752.9219
Num. obs.	731	731	731	731
ŧ K	3	3	3	3

*** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1

MAIL: Mediator Models

Knowledge

```
mmm01_10 <- lm(update(knowledge ~ ., basemod0m), data=mail[which(mail$age - mail$lvlen>=23),])
mmm01_1A <- lm(update(knowledge ~ ., basemodAm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm01_1B <- lm(update(knowledge ~ ., basemodBm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm01_1C <- lm(update(knowledge ~ ., basemodCm), data=mail[which(mail$age - mail$lvlen>=23),])
screenreg(list(mmm01_10,mmm01_1A,mmm01_1B,mmm01_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(mmm01_10,vcov.=vcovHC(mmm01_10))[,2],
                             coeftest(mmm01_1A,vcov.=vcovHC(mmm01_1A))[,2],
                             coeftest(mmm01_1B,vcov.=vcovHC(mmm01_1B))[,2],
                             coeftest(mmm01_1C,vcov.=vcovHC(mmm01_1C))[,2]),
          override.pvalues = list(coeftest(mmm01_10,vcov.=vcovHC(mmm01_10))[,4],
                                  coeftest(mmm01_1A,vcov.=vcovHC(mmm01_1A))[,4],
                                  coeftest(mmm01_1B,vcov.=vcovHC(mmm01_1B))[,4],
                                  coeftest(mmm01_1C,vcov.=vcovHC(mmm01_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base","ZIP","Municipality","Full"))
```

# #	Base	ZIP	Municipality	Full
# # University education	0.1531 ***	0.1338 **	0.1347 **	0.1316 **
#	(0.0416)	(0.0415)	(0.0426)	(0.0421)
# Gender (male)	0.1057 **	0.1187 **	0.1156 **	0.1200 **
#	(0.0392)	(0.0393)	(0.0389)	(0.0392)
# Age (by 10 years, centered at 45)	0.0073	0.0078	0.0064	0.0070
#	(0.0150)	(0.0150)	(0.0151)	(0.0152)
# University * Male	-0.0010	0.0029	-0.0032	0.0009
#	(0.0580)	(0.0577)	(0.0579)	(0.0577)
# University * Age	0.0314	0.0229	0.0288	0.0235
#	(0.0331)	(0.0328)	(0.0336)	(0.0334)
# University * Male * Age	0.0048	0.0127	0.0104	0.0129
#	(0.0398)	(0.0397)	(0.0403)	(0.0401)
# Male * Age	-0.0032	-0.0068	-0.0056	-0.0062
#	(0.0214)	(0.0216)	(0.0215)	(0.0216)
# % of Life Residing Locally (zip)	0.0252	0.0525	0.0409	0.0525
#	(0.0799)	(0.0806)	(0.0796)	(0.0811)
# DID residence (zip)		0.0216		0.0060
<u>-</u> #		(0.0286)		(0.0348)
# Foreigner % sqrt. (zip)		-0.0108		-0.0274
#		(0.0209)		(0.0327)
# University % by 10% (zip)		0.0301 *		0.0217
#		(0.0121)		(0.0157)
# DID proportion (mun.)			0.0467	0.0360
#			(0.0536)	(0.0640)
# Foreigner % sqrt. (mun.)			0.0015	0.0303
#			(0.0315)	(0.0494)
# University % by 10% (mun.)			0.0324	0.0119
#			(0.0217)	(0.0267)

```
## R^2
                           0.1116
                                    0.1231
                                             0.1216
                                                       0.1251
## Adj. R^2
                           0.1018
                                    0.1097
                                             0.1082
                                                       0.1080
## Num. obs.
                         731
                                   731
                                            731
## -----
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Ideology

```
mmm02_10 <- lm(update(ideology ~ ., basemod0m), data=mail[which(mail$age - mail$lvlen>=23),])
mmm02_1A <- lm(update(ideology ~ ., basemodAm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm02_1B <- lm(update(ideology ~ ., basemodBm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm02_1C <- lm(update(ideology ~ ., basemodCm), data=mail[which(mail$age - mail$lvlen>=23),])
screenreg(list(mmm02_10,mmm02_1A,mmm02_1B,mmm02_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(mmm02_10,vcov.=vcovHC(mmm02_10))[,2],
                             coeftest(mmm02_1A,vcov.=vcovHC(mmm02_1A))[,2],
                             coeftest(mmm02_1B,vcov.=vcovHC(mmm02_1B))[,2],
                             coeftest(mmm02_1C,vcov.=vcovHC(mmm02_1C))[,2]),
          override.pvalues = list(coeftest(mmm02_10,vcov.=vcovHC(mmm02_10))[,4],
                                  coeftest(mmm02_1A,vcov.=vcovHC(mmm02_1A))[,4],
                                  coeftest(mmm02_1B,vcov.=vcovHC(mmm02_1B))[,4],
                                  coeftest(mmm02_1C,vcov.=vcovHC(mmm02_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1, 0.05, 0.01, 0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base","ZIP","Municipality","Full"))
```

: : ===================================		========	:========	=======
: :	Base		Municipality	Full
University education		-0.0227	-0.0218	-0.0223
#	(0.0280)	(0.0289)	(0.0287)	(0.0291)
# Gender (male)	-0.0526 *	-0.0517 *	-0.0531 *	-0.0521 *
#	(0.0230)	(0.0234)	(0.0233)	(0.0234)
# Age (by 10 years, centered at 45)	0.0089	0.0084	0.0089	0.0087
#	(0.0084)	(0.0084)	(0.0084)	(0.0084)
# University * Male	0.0736 +	0.0742 +	0.0749 +	0.0750 +
#	(0.0390)	(0.0393)	(0.0390)	(0.0393)
# University * Age	-0.0422 *	-0.0411 *	-0.0414 *	-0.0414 *
#	(0.0196)	(0.0198)	(0.0197)	(0.0200)
# University * Male * Age	0.0454 +	0.0445 +	0.0446 +	0.0448 +
#	(0.0249)	(0.0253)	(0.0253)	(0.0255)
# Male * Age	0.0128	0.0128	0.0126	0.0126
#	(0.0124)	(0.0125)	(0.0125)	(0.0126)
# % of Life Residing Locally (zip)	-0.0396	-0.0407	-0.0388	-0.0399
‡	(0.0481)	(0.0480)	(0.0482)	(0.0485)
# DID residence (zip)		0.0142		0.0126
#		(0.0176)		(0.0198)
# Foreigner % sqrt. (zip)		-0.0093		-0.0079
#		(0.0138)		(0.0195)
# University % by 10% (zip)		-0.0035		-0.0011
#		(0.0078)		(0.0090)
# DID proportion (mun.)			0.0220	0.0083
#			(0.0328)	(0.0363)
# Foreigner % sqrt. (mun.)			-0.0103	-0.0018

```
##
                                              (0.0206)
                                                         (0.0297)
## University % by 10% (mun.)
                                              -0.0078
                                                         -0.0065
                                              (0.0138)
                                                         (0.0161)
## ---
## R^2
                             0.0283
                                      0.0297
                                               0.0293
                                                         0.0299
## Adj. R^2
                             0.0175
                                      0.0148
                                              0.0145
                                                         0.0109
## Num. obs.
                                     731
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

LDP - DPJ FT

```
mmm03_10 <- lm(update(ldpdpjft ~ ., basemod0m), data=mail[which(mail$age - mail$lvlen>=23),])
mmm03_1A <- lm(update(ldpdpjft ~ ., basemodAm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm03_1B <- lm(update(ldpdpjft ~ ., basemodBm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm03_1C <- lm(update(ldpdpjft ~ ., basemodCm), data=mail[which(mail$age - mail$lvlen>=23),])
screenreg(list(mmm03_10,mmm03_1A,mmm03_1B,mmm03_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(mmm03_10,vcov.=vcovHC(mmm03_10))[,2],
                             coeftest(mmm03_1A,vcov.=vcovHC(mmm03_1A))[,2],
                             coeftest(mmm03_1B,vcov.=vcovHC(mmm03_1B))[,2],
                             coeftest(mmm03_1C,vcov.=vcovHC(mmm03_1C))[,2]),
          override.pvalues = list(coeftest(mmm03 10,vcov.=vcovHC(mmm03 10))[,4],
                                  coeftest(mmm03_1A,vcov.=vcovHC(mmm03_1A))[,4],
                                  coeftest(mmm03 1B,vcov.=vcovHC(mmm03 1B))[,4],
                                  coeftest(mmm03_1C,vcov.=vcovHC(mmm03_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base", "ZIP", "Municipality", "Full"))
```

" # ====================================				
#	Base	ZIP	Municipality	Full
## ## University education	-0.0156	-0.0162	-0.0187	-0.0177
#	(0.0188)	(0.0194)	(0.0191)	(0.0196)
# Gender (male)	0.0336 *	0.0348 *	0.0349 *	0.0355 *
#	(0.0154)	(0.0156)	(0.0157)	(0.0158)
# Age (by 10 years, centered at 45)	0.0053	0.0046	0.0051	0.0040
#	(0.0071)	(0.0071)	(0.0071)	(0.0071)
# University * Male	-0.0091	-0.0086	-0.0078	-0.0098
#	(0.0270)	(0.0274)	(0.0272)	(0.0277)
# University * Age	-0.0081	-0.0061	-0.0079	-0.0055
#	(0.0153)	(0.0157)	(0.0155)	(0.0156)
# University * Male * Age	0.0279	0.0272	0.0285	0.0271
#	(0.0201)	(0.0205)	(0.0203)	(0.0204)
# Male * Age	-0.0079	-0.0082	-0.0088	-0.0080
#	(0.0092)	(0.0093)	(0.0092)	(0.0093)
# % of Life Residing Locally (zip)	-0.0583	-0.0624	-0.0543	-0.0621
#	(0.0386)	(0.0388)	(0.0387)	(0.0388)
# DID residence (zip)		0.0299 *		0.0204
-		(0.0140)		(0.0171)
# Foreigner % sqrt. (zip)		-0.0099		-0.0159
#		(0.0109)		(0.0170)
# University % by 10% (zip)		-0.0082		-0.0134

```
(0.0062)
##
                                                                            (0.0084)
## DID proportion (mun.)
                                                               0.0439 +
                                                                            0.0214
                                                              (0.0241)
                                                                            (0.0289)
##
## Foreigner % sqrt. (mun.)
                                                              -0.0087
                                                                            0.0101
##
                                                              (0.0158)
                                                                            (0.0249)
## University % by 10% (mun.)
                                                              -0.0055
                                                                            0.0085
                                                              (0.0104)
                                                                            (0.0138)
## -----
## R^2
                                       0.0158
                                                   0.0229
                                                               0.0203
                                                                            0.0257
                                       0.0049
                                                   0.0080
                                                               0.0053
## Adj. R^2
                                                                            0.0066
## Num. obs.
                                     731
                                                 731
                                                             731
                                                                           731
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Favorability of South Korea

```
mmm04_10 <- lm(update(familiarityFT_KOR ~ ., basemod0m), data=mail[which(mail$age - mail$lvlen>=23),])
mmm04_1A <- lm(update(familiarityFT_KOR ~ ., basemodAm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm04_1B <- lm(update(familiarityFT_KOR ~ ., basemodBm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm04_1C <- lm(update(familiarityFT_KOR ~ ., basemodCm), data=mail[which(mail$age - mail$lvlen>=23),])
screenreg(list(mmm04_10,mmm04_1A,mmm04_1B,mmm04_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(mmm04 10,vcov.=vcovHC(mmm04 10))[,2],
                             coeftest(mmm04_1A,vcov.=vcovHC(mmm04_1A))[,2],
                             coeftest(mmm04 1B,vcov.=vcovHC(mmm04 1B))[,2],
                             coeftest(mmm04_1C,vcov.=vcovHC(mmm04_1C))[,2]),
          override.pvalues = list(coeftest(mmm04_10,vcov.=vcovHC(mmm04_10))[,4],
                                  coeftest(mmm04 1A,vcov.=vcovHC(mmm04 1A))[,4],
                                  coeftest(mmm04 1B,vcov.=vcovHC(mmm04 1B))[,4],
                                  coeftest(mmm04_1C,vcov.=vcovHC(mmm04_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base", "ZIP", "Municipality", "Full"))
```

##					========
##		Base	ZIP	Municipality	Full
##					
##	University education	-0.0188	-0.0170	-0.0111	-0.0129
##		(0.0346)	(0.0353)	(0.0354)	(0.0357)
##	Gender (male)	-0.1306 ***	-0.1323 ***	-0.1349 ***	-0.1328 ***
##		(0.0267)	(0.0270)	(0.0267)	(0.0270)
##	Age (by 10 years, centered at 45)	-0.0092	-0.0089	-0.0084	-0.0079
##		(0.0106)	(0.0106)	(0.0105)	(0.0106)
##	University * Male	0.0424	0.0417	0.0420	0.0443
##		(0.0449)	(0.0452)	(0.0451)	(0.0454)
##	University * Age	0.0004	0.0002	0.0000	-0.0027
##		(0.0232)	(0.0235)	(0.0233)	(0.0234)
##	University * Male * Age	-0.0100	-0.0100	-0.0096	-0.0080
##		(0.0284)	(0.0287)	(0.0286)	(0.0286)
##	Male * Age	0.0416 **	0.0419 **	0.0424 **	0.0419 **
##		(0.0142)	(0.0143)	(0.0142)	(0.0143)
##	% of Life Residing Locally (zip)	-0.0256	-0.0268	-0.0355	-0.0294
##		(0.0563)	(0.0573)	(0.0567)	(0.0572)
##	DID residence (zip)		-0.0134		0.0048

```
##
                                                        (0.0212)
                                                                                      (0.0250)
## Foreigner % sqrt. (zip)
                                                         0.0077
                                                                                      -0.0094
                                                        (0.0148)
                                                                                      (0.0241)
## University % by 10% (zip)
                                                         0.0004
                                                                                      0.0120
                                                        (0.0098)
                                                                                      (0.0123)
## DID proportion (mun.)
                                                                       -0.0293
                                                                                      -0.0357
                                                                       (0.0382)
                                                                                      (0.0450)
## Foreigner % sqrt. (mun.)
                                                                        0.0301
                                                                                      0.0393
##
                                                                       (0.0214)
                                                                                      (0.0357)
## University % by 10% (mun.)
                                                                       -0.0140
                                                                                      -0.0257
                                                                       (0.0165)
                                                                                      (0.0202)
##
## R^2
                                          0.0436
                                                         0.0443
                                                                        0.0489
                                                                                      0.0506
                                                         0.0297
                                                                                      0.0321
## Adj. R^2
                                          0.0330
                                                                        0.0343
## Num. obs.
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Favorability of China

```
mmm05_10 <- lm(update(familiarityFT_CHN ~ ., basemod0m), data=mail[which(mail$age - mail$lvlen>=23),])
mmm05_1A <- lm(update(familiarityFT_CHN ~ ., basemodAm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm05_1B <- lm(update(familiarityFT_CHN ~ ., basemodBm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm05_1C <- lm(update(familiarityFT_CHN ~ ., basemodCm), data=mail[which(mail$age - mail$lvlen>=23),])
screenreg(list(mmm05_10,mmm05_1A,mmm05_1B,mmm05_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(mmm05_10,vcov.=vcovHC(mmm05_10))[,2],
                             coeftest(mmm05 1A,vcov.=vcovHC(mmm05 1A))[,2],
                             coeftest(mmm05 1B,vcov.=vcovHC(mmm05 1B))[,2],
                             coeftest(mmm05_1C,vcov.=vcovHC(mmm05_1C))[,2]),
          override.pvalues = list(coeftest(mmm05_10,vcov.=vcovHC(mmm05_10))[,4],
                                  coeftest(mmm05_1A,vcov.=vcovHC(mmm05_1A))[,4],
                                  coeftest(mmm05_1B,vcov.=vcovHC(mmm05_1B))[,4],
                                  coeftest(mmm05_1C,vcov.=vcovHC(mmm05_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base","ZIP","Municipality","Full"))
```

ππ					
##			=========	=========	========
##		Base	ZIP	Municipality	Full
##					
##	University education	0.0728 *	0.0837 **	0.0856 **	0.0863 **
##		(0.0308)	(0.0313)	(0.0314)	(0.0316)
##	Gender (male)	-0.0323	-0.0401 +	-0.0390 +	-0.0407 +
##		(0.0239)	(0.0236)	(0.0236)	(0.0237)
##	Age (by 10 years, centered at 45)	0.0192 *	0.0191 *	0.0199 *	0.0199 *
##		(0.0095)	(0.0094)	(0.0095)	(0.0095)
##	University * Male	-0.0454	-0.0479	-0.0452	-0.0466
##		(0.0393)	(0.0395)	(0.0392)	(0.0395)
##	University * Age	-0.0103	-0.0060	-0.0091	-0.0071
##		(0.0213)	(0.0219)	(0.0213)	(0.0219)
##	University * Male * Age	-0.0003	-0.0042	-0.0036	-0.0041
##		(0.0255)	(0.0259)	(0.0256)	(0.0259)
##	Male * Age	0.0071	0.0091	0.0092	0.0090

```
##
                                    (0.0131)
                                               (0.0131)
                                                           (0.0130)
                                                                        (0.0131)
                                                                        -0.0445
## % of Life Residing Locally (zip)
                                    -0.0272
                                                           -0.0395
                                               -0.0421
                                    (0.0558)
                                               (0.0567)
                                                           (0.0565)
                                                                        (0.0570)
## DID residence (zip)
                                               -0.0192
                                                                         0.0047
                                               (0.0194)
                                                                        (0.0236)
## Foreigner % sqrt. (zip)
                                                0.0116
                                                                         0.0181
                                               (0.0138)
                                                                        (0.0217)
## University % by 10% (zip)
                                               -0.0153 +
                                                                        -0.0080
##
                                               (0.0082)
                                                                        (0.0108)
## DID proportion (mun.)
                                                           -0.0602 +
                                                                        -0.0621
                                                           (0.0352)
                                                                        (0.0425)
## Foreigner % sqrt. (mun.)
                                                            0.0095
                                                                        -0.0108
                                                           (0.0212)
                                                                        (0.0333)
## University % by 10% (mun.)
                                                                        -0.0076
                                                           -0.0147
                                                           (0.0136)
                                                                        (0.0178)
##
                                                0.0344
## R^2
                                    0.0251
                                                            0.0380
                                                                         0.0399
## Adj. R^2
                                    0.0143
                                                0.0196
                                                            0.0233
                                                                         0.0211
                                   731
                                              731
## Num. obs.
                                                          731
                                                                       731
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Favorability of USA

```
mmm06_10 <- lm(update(familiarityFT_USA ~ ., basemod0m), data=mail[which(mail$age - mail$lvlen>=23),])
mmm06_1A <- lm(update(familiarityFT_USA ~ ., basemodAm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm06_1B <- lm(update(familiarityFT_USA ~ ., basemodBm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm06_1C <- lm(update(familiarityFT_USA ~ ., basemodCm), data=mail[which(mail$age - mail$lvlen>=23),])
screenreg(list(mmm06_10,mmm06_1A,mmm06_1B,mmm06_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(mmm06_10,vcov.=vcovHC(mmm06_10))[,2],
                             coeftest(mmm06_1A,vcov.=vcovHC(mmm06_1A))[,2],
                             coeftest(mmm06_1B,vcov.=vcovHC(mmm06_1B))[,2],
                             coeftest(mmm06_1C,vcov.=vcovHC(mmm06_1C))[,2]),
          override.pvalues = list(coeftest(mmm06_10,vcov.=vcovHC(mmm06_10))[,4],
                                  coeftest(mmm06_1A,vcov.=vcovHC(mmm06_1A))[,4],
                                  coeftest(mmm06_1B,vcov.=vcovHC(mmm06_1B))[,4],
                                  coeftest(mmm06_1C,vcov.=vcovHC(mmm06_1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base", "ZIP", "Municipality", "Full"))
```

```
## -----
                                 Base
                                            ZIP
                                                        Municipality Full
## University education
                                  0.0084
                                              0.0077
                                                         0.0109
                                                                      0.0092
##
                                  (0.0275)
                                             (0.0280)
                                                         (0.0279)
                                                                     (0.0282)
## Gender (male)
                                   0.0312
                                              0.0324
                                                         0.0301
                                                                      0.0321
                                  (0.0236)
                                             (0.0236)
                                                         (0.0237)
                                                                     (0.0236)
## Age (by 10 years, centered at 45)
                                   0.0270 **
                                              0.0266 **
                                                         0.0269 **
                                                                      0.0270 **
                                  (0.0089)
                                             (0.0090)
                                                         (0.0090)
                                                                     (0.0090)
                                                         -0.0094
## University * Male
                                  -0.0099
                                             -0.0092
                                                                     -0.0085
                                  (0.0371)
                                             (0.0374)
                                                         (0.0373)
                                                                     (0.0376)
## University * Age
                                  -0.0173
                                             -0.0168
                                                         -0.0165
                                                                     -0.0175
```

```
##
                                     (0.0203)
                                                 (0.0203)
                                                              (0.0203)
                                                                           (0.0206)
## University * Male * Age
                                     0.0211
                                                  0.0204
                                                              0.0193
                                                                            0.0205
##
                                     (0.0245)
                                                 (0.0247)
                                                              (0.0246)
                                                                           (0.0249)
## Male * Age
                                     0.0001
                                                              0.0007
                                                                            0.0000
                                                  0.0001
                                     (0.0127)
                                                 (0.0128)
                                                              (0.0128)
                                                                           (0.0129)
## % of Life Residing Locally (zip)
                                                             -0.1205 *
                                     -0.1196 *
                                                 -0.1190 *
                                                                           -0.1205 *
                                                              (0.0508)
                                     (0.0502)
                                                 (0.0505)
                                                                           (0.0511)
## DID residence (zip)
                                                  0.0110
                                                                            0.0251
##
                                                 (0.0181)
                                                                           (0.0221)
## Foreigner % sqrt. (zip)
                                                 -0.0097
                                                                           -0.0058
                                                 (0.0148)
                                                                           (0.0215)
## University % by 10% (zip)
                                                 -0.0013
                                                                            0.0031
                                                 (0.0080)
                                                                           (0.0102)
## DID proportion (mun.)
                                                                           -0.0365
                                                              -0.0104
##
                                                              (0.0335)
                                                                           (0.0403)
## Foreigner % sqrt. (mun.)
                                                              -0.0113
                                                                           -0.0065
##
                                                              (0.0210)
                                                                           (0.0303)
## University % by 10% (mun.)
                                                              -0.0015
                                                                           -0.0047
                                                              (0.0130)
                                                                           (0.0153)
## R^2
                                     0.0353
                                                  0.0364
                                                              0.0364
                                                                            0.0387
                                     0.0246
                                                  0.0216
## Adj. R^2
                                                              0.0217
                                                                            0.0199
## Num. obs.
                                                731
                                    731
                                                             731
                                                                          731
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Income

```
mmm07_10 <- lm(update(income ~ ., basemod0m), data=mail[which(mail$age - mail$lvlen>=23),])
mmm07_1A <- lm(update(income ~ ., basemodAm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm07_1B <- lm(update(income ~ ., basemodBm), data=mail[which(mail$age - mail$lvlen>=23),])
mmm07_1C <- lm(update(income ~ ., basemodCm), data=mail[which(mail$age - mail$lvlen>=23),])
screenreg(list(mmm07_10,mmm07_1A,mmm07_1B,mmm07_1C), digits = 4, #single.row = T,
          override.se = list(coeftest(mmm07_10,vcov.=vcovHC(mmm07_10))[,2],
                             coeftest(mmm07_1A,vcov.=vcovHC(mmm07_1A))[,2],
                             coeftest(mmm07_1B,vcov.=vcovHC(mmm07_1B))[,2],
                             coeftest(mmm07_1C,vcov.=vcovHC(mmm07_1C))[,2]),
          override.pvalues = list(coeftest(mmm07_10,vcov.=vcovHC(mmm07_10))[,4],
                                  coeftest(mmm07 1A,vcov.=vcovHC(mmm07 1A))[,4],
                                  coeftest(mmm07_1B,vcov.=vcovHC(mmm07_1B))[,4],
                                  coeftest(mmm07 1C,vcov.=vcovHC(mmm07 1C))[,4]),
          omit.coef = "(wave)", stars = c(0.1,0.05,0.01,0.001), symbol = "+",
          custom.coef.map = vnmap,
          custom.model.names = c("Base", "ZIP", "Municipality", "Full"))
```

```
##
  ______
                                        ZIP
                                                   Municipality Full
                             Base
                                         0.0903 *
## University education
                               0.1041 *
                                                    0.0964 *
                                                               0.0909 *
                              (0.0407)
                                         (0.0414)
                                                               (0.0416)
                                                    (0.0411)
## Gender (male)
                               0.0209
                                         0.0276
                                                    0.0274
                                                               0.0272
##
                              (0.0308)
                                         (0.0310)
                                                    (0.0310)
                                                               (0.0310)
## Age (by 10 years, centered at 45) -0.0414 **
                                        -0.0404 **
                                                   -0.0424 **
                                                              -0.0404 **
```

```
##
                                        (0.0132)
                                                      (0.0131)
                                                                    (0.0132)
                                                                                   (0.0132)
                                                     -0.0125
                                                                    -0.0221
                                                                                   -0.0133
## University * Male
                                        -0.0165
                                        (0.0523)
                                                      (0.0526)
                                                                    (0.0524)
                                                                                   (0.0530)
## University * Age
                                                      0.0307
                                                                     0.0376
                                                                                   0.0315
                                         0.0381
                                        (0.0368)
                                                      (0.0371)
                                                                    (0.0375)
                                                                                   (0.0377)
## University * Male * Age
                                         0.0145
                                                      0.0176
                                                                     0.0140
                                                                                   0.0166
                                        (0.0411)
                                                      (0.0413)
                                                                    (0.0417)
                                                                                   (0.0417)
## Male * Age
                                        -0.0308 +
                                                     -0.0310 +
                                                                    -0.0302 +
                                                                                   -0.0312 +
##
                                        (0.0164)
                                                      (0.0164)
                                                                    (0.0164)
                                                                                   (0.0165)
## % of Life Residing Locally (zip)
                                         0.1347 +
                                                      0.1613 *
                                                                     0.1418 *
                                                                                   0.1626 *
                                        (0.0699)
                                                      (0.0700)
                                                                    (0.0703)
                                                                                   (0.0707)
## DID residence (zip)
                                                     -0.0460 +
                                                                                   -0.0388
                                                      (0.0242)
                                                                                   (0.0302)
## Foreigner % sqrt. (zip)
                                                      0.0097
                                                                                   0.0262
                                                      (0.0178)
                                                                                   (0.0279)
## University % by 10% (zip)
                                                      0.0363 ***
                                                                                    0.0359 *
##
                                                      (0.0107)
                                                                                   (0.0143)
## DID proportion (mun.)
                                                                    -0.0665
                                                                                   -0.0239
                                                                    (0.0467)
                                                                                   (0.0567)
## Foreigner % sqrt. (mun.)
                                                                    -0.0032
                                                                                   -0.0340
                                                                    (0.0271)
                                                                                   (0.0422)
## University % by 10% (mun.)
                                                                     0.0445 *
                                                                                   0.0072
                                                                    (0.0202)
                                                                                   (0.0256)
## R^2
                                         0.1067
                                                      0.1223
                                                                     0.1144
                                                                                    0.1237
## Adj. R^2
                                         0.0958
                                                      0.1075
                                                                    0.0995
                                                                                   0.1049
## Num. obs.
                                       667
                                                    667
                                                                   667
                                                                                 667
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Plotting

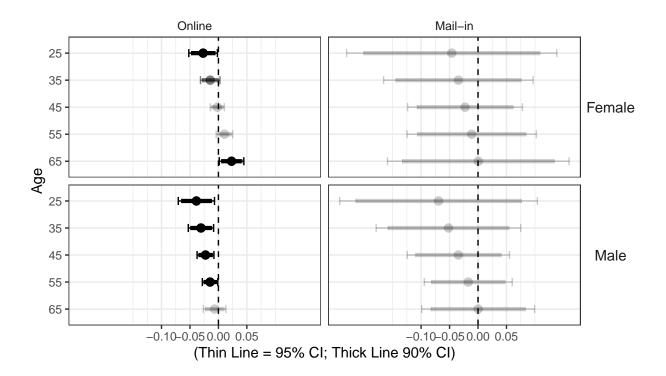
```
extout <- function(gender,ageset,sub=1) {</pre>
  if (gender=="Male") sifcct$gender <- sifcct$female</pre>
  if (gender=="Female") sifcct$gender <- sifcct$male</pre>
  sifcct$ageset <- (sifcct$age - ageset)/10</pre>
  if (sub==1) {
    modset <- lm(foreignsuff ~ edu2 * gender * ageset + lvpr + zip_did + sqrt(c10_sreg_fper) +
                    I(c10_sreg_edu_ugsP/10) + didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10) +
                    as.factor(wave), data=sifcct[which(sifcct$age - sifcct$lvlen<=15),])</pre>
    subname = "Stayed"
  } else {
    modset <- lm(foreignsuff ~ edu2 * gender * ageset + lvpr + as.factor(wave),</pre>
                  data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
    subname = "Moved"
  }
 res <- c(gender,ageset,coef(modset)[2],</pre>
           coefci(modset, vcov.=vcovHC(modset), level = 0.95)[2,],
           coefci(modset, vcov.=vcovHC(modset), level = 0.90)[2,],
           coeftest(modset, vcov.=vcovHC(modset))[2,c(2,4)],
```

```
subname)
  names(res) <- c("gender", "age", "est", "lci95", "uci95", "lci90", "uci90", "se", "p", "lv")</pre>
  return(res)
}
outdt0 <- rbind(extout("Female",25,2),</pre>
                extout("Female", 35,2),
                extout("Female", 45,2),
                extout("Female",55,2),
                extout("Female",65,2),
                extout("Male",25,2),
                extout("Male", 35, 2),
                extout("Male", 45, 2),
                extout("Male",55,2),
                extout("Male",65,2))
outdt0 <- as.data.frame(outdt0)</pre>
for(i in 2:9) outdt0[,i] <- as.numeric(outdt0[,i])</pre>
outdt0$gender <- factor(outdt0$gender, levels=unique(outdt0$gender))</pre>
summary(outdt0)
                                                      lci95
                                                                           uci95
                                                                                                 lci90
##
       gender
                    age
                                  est
   Female:5
                      :25
                            Min.
                                    :-0.038697
                                                  Min.
                                                         :-0.070512
                                                                       Min.
                                                                              :-0.0084444
                                                                                             Min.
                                                                                                    :-0.065
               Min.
                             1st Qu.:-0.025859
                                                  1st Qu.:-0.048402
                                                                       1st Qu.:-0.0056096
                                                                                             1st Qu.:-0.044
##
   Male :5
               1st Qu.:35
##
               Median:45
                            Median :-0.014550
                                                Median :-0.029892
                                                                       Median : 0.0007912
                                                                                             Median :-0.027
##
               Mean
                     :45
                            Mean :-0.012305
                                                  Mean :-0.031594
                                                                       Mean : 0.0069831
                                                                                             Mean
                                                                                                    :-0.028
##
                             3rd Qu.:-0.003113
                                                  3rd Qu.:-0.017312
                                                                       3rd Qu.: 0.0124302
                                                                                             3rd Qu.:-0.015
               3rd Qu.:55
##
               Max.
                     :65
                             Max.
                                    : 0.023066
                                                  Max.
                                                         : 0.001465
                                                                       Max.
                                                                             : 0.0446669
                                                                                             Max.
                                                                                                    : 0.004
##
        uci90
                                                                      lv
                               se
                                                   p
## Min.
           :-0.012021
                        Min.
                                :0.006296
                                             Min.
                                                    :0.002659
                                                                 Length: 10
  1st Qu.:-0.009158
                        1st Qu.:0.007436
                                             1st Qu.:0.021370
                                                                 Class : character
## Median :-0.001675
                        Median :0.009408
                                             Median :0.036055
                                                                 Mode :character
## Mean
          : 0.003882
                        Mean
                                :0.009841
                                             Mean
                                                    :0.165248
## 3rd Qu.: 0.009550
                         3rd Qu.:0.011268
                                             3rd Qu.:0.139450
          : 0.041194
## Max.
                        Max.
                                :0.016232
                                             Max.
                                                    :0.759719
extout <- function(gender,ageset,sub=1) {</pre>
  if (gender=="Male") mail$gender <- mail$female</pre>
  if (gender=="Female") mail$gender <- mail$male</pre>
  mail$ageset <- (mail$age - ageset)/10</pre>
  if (sub==1) {
    modset <- lm(foreignsuff ~ edu2 * gender * ageset + lvpr + zip_did + sqrt(c10_sreg_fper) +</pre>
                    I(c10_sreg_edu_ugsP/10) + didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10),
                 data=mail[which(mail$age - mail$lvlen<=15),])</pre>
    subname = "Stayed"
  } else {
    modset <- lm(foreignsuff ~ edu2 * gender * ageset + lvpr,</pre>
                 data=mail[which(mail$age - mail$lvlen>=23),])
    subname = "Moved"
  }
```

```
res <- c(gender,ageset,coef(modset)[2],</pre>
           coefci(modset, vcov.=vcovHC(modset), level = 0.95)[2,],
           coefci(modset, vcov.=vcovHC(modset), level = 0.90)[2,],
           coeftest(modset, vcov.=vcovHC(modset))[2,c(2,4)],
           subname)
  names(res) <- c("gender", "age", "est", "lci95", "uci95", "lci90", "uci90", "se", "p", "lv")</pre>
 return(res)
}
outdtm <- rbind(extout("Female",25,2),</pre>
                extout("Female", 35,2),
                extout("Female", 45,2),
                extout("Female",55,2),
                extout("Female",65,2),
                extout("Male", 25, 2),
                extout("Male",35,2),
                extout("Male", 45, 2),
                extout("Male",55,2),
                extout("Male",65,2))
outdtm <- as.data.frame(outdtm)</pre>
for(i in 2:9) outdtm[,i] <- as.numeric(outdtm[,i])</pre>
outdtm$gender <- factor(outdtm$gender, levels=unique(outdtm$gender))</pre>
summary(outdtm)
##
       gender
                                                      lci95
                                                                          uci95
                                                                                            lci90
                    age
                                                                     Min.
##
  Female:5
                     :25
                            Min.
                                   :-0.0693356
                                                  Min.
                                                         :-0.24300
                                                                             :0.05526
                                                                                        Min.
                                                                                               :-0.2150
               Min.
   Male :5
               1st Qu.:35
                            1st Qu.:-0.0432717
                                                  1st Qu.:-0.17567
                                                                     1st Qu.:0.07580
                                                                                        1st Qu.:-0.1550
##
                            Median :-0.0286834
##
               Median:45
                                                  Median :-0.14192
                                                                     Median :0.09813
                                                                                        Median :-0.1216
##
                     :45
                            Mean
                                   :-0.0287040
                                                  Mean
                                                         :-0.15440
                                                                            :0.09699
                                                                                        Mean
                                                                                              :-0.1342
##
               3rd Qu.:55
                            3rd Qu.:-0.0126839
                                                  3rd Qu.:-0.12391
                                                                      3rd Qu.:0.10386
                                                                                        3rd Qu.:-0.1068
##
                    :65
                            Max.
                                  : 0.0004725
                                                  Max. :-0.09445
                                                                     Max.
                                                                           :0.15996
                                                                                        Max. :-0.0820
               Max.
##
        uci90
                                                               lv
                            se
           :0.04079 Min.
                                               :0.4222
## Min.
                             :0.03937
                                        Min.
                                                          Length:10
  1st Qu.:0.05639
                     1st Qu.:0.05076
                                         1st Qu.:0.4892
                                                          Class :character
##
## Median :0.07600
                     Median :0.06128
                                        Median :0.6402
                                                          Mode :character
           :0.07674
                            :0.06403
                                               :0.6694
## Mean
                      Mean
                                        Mean
## 3rd Qu.:0.08397
                      3rd Qu.:0.07765
                                         3rd Qu.:0.8008
## Max.
           :0.13427
                      Max.
                              :0.09405
                                        Max.
                                               :0.9965
outdt0$data <- "Online"
outdtm$data <- "Mail-in"
visdt <- rbind(outdt0,outdtm)</pre>
visdt$data <- factor(visdt$data, levels=c("Online", "Mail-in"))</pre>
visdt$pstar <- factor(ifelse(visdt$p>=.1, "n.s.", ifelse(visdt$p>=.05, "p<.1", "p<.05")),</pre>
                      levels = c("p<.05", "p<.1", "n.s."))
saveRDS(subset(visdt, data=="Mail-in"), paste0(projdir, "/out/visdtx_mail_ols.rds"))
require(ggplot2)
p <- ggplot(visdt, aes(x=factor(age, levels=rev(names(table(age)))), y=est)) +
```

```
geom_hline(aes(yintercept=0), linetype=2) +
  geom_errorbar(aes(ymin=lci95,ymax=uci95,colour="1",alpha=pstar),
                position=position_dodge(width=-0.7), size=0.5, width=0.3) +
  geom_errorbar(aes(ymin=lci90,ymax=uci90,colour="1",alpha=pstar),
                position=position_dodge(width=-0.7), size=1.5, width=0.0) +
  geom_point(aes(shape=lv, colour="1",alpha=pstar),
             position=position_dodge(width=-0.7), size=3) +
  facet_grid(gender ~ data) +
  scale_y_continuous(breaks = c(-0.1, -0.05, 0.00, 0.05)) +
  scale_shape_discrete(name="Change in residece after university") +
  scale_color_manual(name="Change in residece after university",values=rep("black", 1)) +
  scale_alpha_manual(name="Significance", values=c(1,0.5,0.2)) +
  ylab("(Thin Line = 95% CI; Thick Line 90% CI)") +
  xlab("Age") +
  labs(caption="Treatment: University education (1:attained, 0:not attained). Outcome: Agreement with g
  coord_flip() + theme_bw() +
  theme(legend.position = "bottom",
        strip.text.x = element_text(size=9),
        strip.text.y = element_text(angle=0, size=11),
        strip.background = element_rect(fill=NA,color=NA),
        plot.caption = element_text(hjust=0),
        plot.subtitle = element_text(hjust=0.5))
p
## Warning: position_dodge requires non-overlapping x intervals
## Warning: position_dodge requires non-overlapping x intervals
## Warning: position_dodge requires non-overlapping x intervals
```

Warning: position_dodge requires non-overlapping x intervals



→ p<.1 → n.s. Change in residece after university → 1 Change in residece after ur

Treatment: University education (1:attained, 0:not attained). Outcome: Agreement with granting suffrage to pe

```
ggsave(paste0(projdir,"/out/mailineffectplotx.png"),p,width=8,height=5)
## Warning: position_dodge requires non-overlapping x intervals
## Multinomial Logit ##
extout <- function(gender,ageset,sub=1) {</pre>
  if (gender=="Male") sifcct$gender <- sifcct$female</pre>
  if (gender=="Female") sifcct$gender <- sifcct$male</pre>
  sifcct$ageset <- (sifcct$age - ageset)/10</pre>
  if (sub==1) {
    \# modset <- multinom(foreignsuff3x ~ edu2 * gender * ageset + lvpr + zip_did + sqrt(c10_sreg_fper)
                            I(c10\_sreg\_edu\_ugsP/10) + didper + sqrt(c10\_mun\_fper) + I(c10\_mun\_edu\_ugsP/1)
    #
                            as.factor(wave), data=sifcct[which(sifcct$age - sifcct$lvlen<=15),],
                          Hess = TRUE)
    sifcct.mlogit.tmp <- dfidx(sifcct[which(sifcct$age - sifcct$lvlen<=15),],</pre>
                                shape = "wide", choice = "foreignsuff3x")
    # levels(sifcct.mlogit.tmp$idx$id2) <- c("Disagree", "Neither", "Agree")</pre>
    modset <- mlogit(foreignsuff3x ~ 0 | edu2 * gender * ageset + lvpr + zip_did + sqrt(c10_sreg_fper)</pre>
                        I(c10_sreg_edu_ugsP/10) + didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10) +
```

```
as.factor(wave), data=sifcct.mlogit.tmp, reflevel="Disagree")
                     subname = "Stayed"
          } else {
                     # modset <- multinom(foreignsuff3x ~ edu2 * gender * ageset + lvpr + as.factor(wave),</pre>
                                                                                                                               data=sifcct[which(sifcct$age - sifcct$lvlen>=23),],
                                                                                                                               Hess = TRUE)
                    sifcct.mlogit.tmp <- dfidx(sifcct[which(sifcct$age - sifcct$lvlen>=23),],
                                                                                                                                                             shape = "wide", choice = "foreignsuff3x")
                    # levels(sifcct.mlogit.tmp$idx$id2) <- c("Disagree", "Neither", "Agree")</pre>
                   modset <- mlogit(foreignsuff3x ~ 0 | edu2 * gender * ageset + lvpr + as.factor(wave),</pre>
                                                                                                           data=sifcct.mlogit.tmp, reflevel="Disagree")
                    subname = "Moved"
          }
          # modres <- extract(modset)</pre>
          # res <- c(gender,ageset,modres@coef[grep("^Agree: edu2$",modres@coef.names)],</pre>
                                                                  modres@coef[grep("^Agree: edu2\$", modres@coef.names)] - qnorm(0.975)*modres@se[grep("^Agree = 0.975) + modres@se[grep("^Agree = 0.975) + modres@se[gree = 0.975] + modres@se[g
           #
                                                                 modres@coef[qrep("^Agree: edu2\$", modres@coef.names)] + qnorm(0.975)*modres@se[qrep("^Agree")] + qnorm(0.975)*modres@se[qrep("^Agree")] + qnorm(0.975)*modres@se[qrep("Agree")] + qnorm(0.975)*modres@se[qree")] + qnorm(0.975)*modres@se[qree") + qnorm(0.975)*modres@se[qree"] + qnorm(0.975)*modres@se[qree"] + qnorm(0.975)*modres@se[qree"] + qnorm(0.975)*modr
                                                                 modres@coef[grep("^Agree: edu2\$", modres@coef.names)] - qnorm(0.95)*modres@se[grep("^Agree: edu2\$", modres@coef.names)] - qnorm(0.95)*modres@se[grep("^Agree: edu2\$", modres@coef.names)] - qnorm(0.95)*modres@se[grep("^Agree: edu2\$", modres@coef.names)] - qnorm(0.95)*modres@se[grep("^Agree: edu2\$", modres@se[grep(") agree: edu2\$", modres@se
           #
                                                                 modres@coef[grep("^Agree: edu2\$", modres@coef.names)] + qnorm(0.95)*modres@se[grep("^Agree: edu2\$", modres@se[grep("^Agree: edu2\$", edu2\
           #
                                                                 modres@se[grep("^Agree: edu2$",modres@coef.names)],
                                                                 modres@pvalues[grep("^Agree: edu2$", modres@coef.names)],
                                                                  subname)
          res <- c(gender, ageset, coef(modset)[3],
                                                        coefci(modset, vcov=sandwich, level = 0.95)[3,],
                                                        coefci(modset, vcov=sandwich, level = 0.90)[3,],
                                                        coeftest(modset, vcov=sandwich)[3,c(2,4)],
                                                       subname)
          names(res) <- c("gender", "age", "est", "lci95", "uci95", "lci90", "uci90", "se", "p", "lv")</pre>
          return(res)
}
outdt0 <- rbind(extout("Female",25,2),</pre>
                                                                                 extout("Female", 35,2),
                                                                                 extout("Female", 45,2),
                                                                                 extout("Female",55,2),
                                                                                 extout("Female",65,2),
                                                                                 extout("Male",25,2),
                                                                                 extout("Male", 35, 2),
                                                                                 extout("Male", 45, 2),
                                                                                 extout("Male",55,2),
                                                                                 extout("Male",65,2))
outdt0 <- as.data.frame(outdt0)</pre>
for(i in 2:9) outdt0[,i] <- as.numeric(outdt0[,i])</pre>
outdt0$gender <- factor(outdt0$gender, levels=unique(outdt0$gender))</pre>
summary(outdt0)
##
                                                                                                                                                                                                                                                                        lci95
                                                                                                                                                                                                                                                                                                                                                                         uci95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1ci90
                                   gender
                                                                                                     age
                                                                                                                                                                        est
##
                   Female:5
                                                                           Min.
                                                                                                              :25
                                                                                                                                              Min.
                                                                                                                                                                                 :-0.243140
                                                                                                                                                                                                                                                   Min.
                                                                                                                                                                                                                                                                                       :-0.47155
                                                                                                                                                                                                                                                                                                                                                    Min.
                                                                                                                                                                                                                                                                                                                                                                                        :-0.021194
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Min.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              :-0.43483
```

1st Qu.:-0.31315

1st Qu.:-0.005643

1st Qu.:-0.28920

1st Qu.:-0.166098

Male :5

1st Qu.:35

```
##
                                                             Median:45
                                                                                                                   Median :-0.073352
                                                                                                                                                                                                      Median :-0.18847
                                                                                                                                                                                                                                                                                      Median : 0.042493
                                                                                                                                                                                                                                                                                                                                                                         Median :-0.17057
                                                                                                                                              :-0.056795
##
                                                             Mean
                                                                                           :45
                                                                                                                  Mean
                                                                                                                                                                                                      Mean
                                                                                                                                                                                                                                    :-0.20097
                                                                                                                                                                                                                                                                                      Mean
                                                                                                                                                                                                                                                                                                                  : 0.087382
                                                                                                                                                                                                                                                                                                                                                                         Mean
                                                                                                                                                                                                                                                                                                                                                                                                      :-0.17779
                                                                                                                                                                                                                                                                                      3rd Qu.: 0.129604
##
                                                              3rd Qu.:55
                                                                                                                    3rd Qu.: 0.005561
                                                                                                                                                                                                       3rd Qu.:-0.10201
                                                                                                                                                                                                                                                                                                                                                                         3rd Qu.:-0.08472
##
                                                                                                                                                 : 0.195778
                                                                                                                                                                                                                                    : 0.02856
                                                                                                                                                                                                                                                                                                                   : 0.363000
                                                                                                                                                                                                                                                                                                                                                                                                      : 0.05544
                                                             Max.
                                                                                           :65
                                                                                                                   Max.
                                                                                                                                                                                                      Max.
                                                                                                                                                                                                                                                                                      Max.
                                                                                                                                                                                                                                                                                                                                                                        Max.
##
                                 uci90
                                                                                                                                                                                                                                                                         lv
                                                                                                                                                                                                  р
##
                                             :-0.05145
                                                                                                                            :0.04746
                                                                                                                                                                                                       :0.02175
                                                                                                                                                                                                                                                    Length: 10
              Min.
                                                                                              \mathtt{Min}.
                                                                                                                                                                         \mathtt{Min}.
               1st Qu.:-0.02656
                                                                                               1st Qu.:0.05482
                                                                                                                                                                         1st Qu.:0.02910
                                                                                                                                                                                                                                                    Class : character
              Median: 0.02387
                                                                                               Median :0.06967
                                                                                                                                                                         Median :0.07742
                                                                                                                                                                                                                                                    Mode : character
##
               Mean
                                         : 0.06420
                                                                                              Mean
                                                                                                                            :0.07356
                                                                                                                                                                         Mean
                                                                                                                                                                                                       :0.25585
##
                3rd Qu.: 0.10943
                                                                                               3rd Qu.:0.08443
                                                                                                                                                                         3rd Qu.:0.21760
## Max.
                                            : 0.33611
                                                                                              Max.
                                                                                                                            :0.11653
                                                                                                                                                                         Max.
                                                                                                                                                                                                       :0.96055
extout <- function(gender,ageset,sub=1) {</pre>
        if (gender=="Male") mail$gender <- mail$female</pre>
        if (gender=="Female") mail$gender <- mail$male</pre>
        mail$ageset <- (mail$age - ageset)/10</pre>
        if (sub==1) {
                 # modset <- multinom(foreignsuff3x ~ edu2 * gender * ageset + lvpr + zip_did + sgrt(c10_sreq_fper)
                                                                                                                 I(c10\_sreg\_edu\_ugsP/10) + didper + sqrt(c10\_mun\_fper) + I(c10\_mun\_edu\_ugsP/1)
                 #
                                                                                                        data=mail[which(mail$age - mail$lvlen<=15),],</pre>
                                                                                                       Hess = TRUE)
                mail.mlogit.tmp <- dfidx(mail[which(mail$age - mail$lvlen<=15),],</pre>
                                                                                                                        shape = "wide", choice = "foreignsuff3x")
                # levels(mail.mlogit.tmp$idx$id2) <- c("Disagree", "Neither", "Agree")</pre>
                modset <- mlogit(foreignsuff3x ~ 0 | edu2 * gender * ageset + lvpr + zip_did + sqrt(c10_sreg_fper)</pre>
                                                                                               I(c10_sreg_edu_ugsP/10) + didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10),
                                                                                       data=mail.mlogit.tmp, reflevel="Disagree")
                subname = "Stayed"
        } else {
                 # modset <- multinom(foreignsuff3x ~ edu2 * gender * ageset + lupr,
                                                                                                        data=mail[which(mail$age - mail$lvlen>=23),],
                                                                                                       Hess = TRUE)
                mail.mlogit.tmp <- dfidx(mail[which(mail$age - mail$lvlen>=23),],
                                                                                                                        shape = "wide", choice = "foreignsuff3x")
                 # levels(mail.mlogit.tmp$idx$id2) <- c("Disagree", "Neither", "Agree")</pre>
                modset <- mlogit(foreignsuff3x ~ 0 | edu2 * gender * ageset + lvpr,</pre>
                                                                                       data=mail.mlogit.tmp, reflevel="Disagree")
                 subname = "Moved"
        }
        # modres <- extract(modset)</pre>
         \# \ res <- \ c(gender, ageset, modres@coef[grep("^Agree: edu2\$", modres@coef.names)], 
                                                      modres@coef[grep("^Agree: edu2$", modres@coef.names)] - qnorm(0.975)*modres@se[grep("^Agree)] - qnorm(0.975)*modres@se[gree]] - qnorm(0.975)*modres@
         #
        #
                                                     modres@coef[grep("^Agree: edu2\$", modres@coef.names)] + qnorm(0.975)*modres@se[grep("^Agree: edu2\$", modres@se[grep("^Agree: edu2\$", modres@se[gree] edu2\$", mo
                                                     modres@coef[grep("^Agree: edu2\$", modres@coef.names)] - qnorm(0.95)*modres@se[grep("^Agree: edu2\$", modres@coef.names)] - qnorm(0.95)*modres@se[grep("^Agree: edu2\$", modres@coef.names)] - qnorm(0.95)*modres@se[grep("^Agree: edu2\$", modres@se[grep(") agree: edu2\$", modres@
        #
                                                     modres@coef[grep("^Agree: edu2\$", modres@coef.names)] + qnorm(0.95)*modres@se[grep("^Agree: edu2\$", modres@se[grep("^Agree: edu2\$", edu2**, 
        #
                                                     modres@se[grep("^Agree: edu2$",modres@coef.names)],
         #
        #
                                                     modres@pvalues[grep("^Agree: edu2$",modres@coef.names)],
        #
                                                      subname)
        res <- c(gender,ageset,coef(modset)[3],</pre>
                                              coefci(modset, vcov=sandwich, level = 0.95)[3,],
```

```
coefci(modset, vcov=sandwich, level = 0.90)[3,],
           coeftest(modset, vcov=sandwich)[3,c(2,4)],
           subname)
  names(res) <- c("gender", "age", "est", "lci95", "uci95", "lci90", "uci90", "se", "p", "lv")</pre>
 return(res)
}
outdtm <- rbind(extout("Female",25,2),</pre>
                extout("Female", 35,2),
                extout("Female", 45, 2),
                extout("Female",55,2),
                extout("Female",65,2),
                extout("Male",25,2),
                extout("Male", 35, 2),
                extout("Male",45,2),
                extout("Male",55,2),
                extout("Male",65,2))
outdtm <- as.data.frame(outdtm)</pre>
for(i in 2:9) outdtm[,i] <- as.numeric(outdtm[,i])</pre>
outdtm$gender <- factor(outdtm$gender, levels=unique(outdtm$gender))</pre>
summary(outdtm)
##
       gender
                                  est
                                                    1ci95
                                                                       uci 95
                                                                                         1ci90
                    age
##
   Female:5
                     :25
                             Min. :-0.5361
                                                Min. :-1.6288
                                                                  Min. :0.4162
                                                                                           :-1.4527
               Min.
               1st Qu.:35
                                                                  1st Qu.:0.4844
                                                                                    1st Qu.:-0.9994
##
   Male :5
                            1st Qu.:-0.2346
                                                1st Qu.:-1.1317
               Median:45
                             Median :-0.1611
                                                Median :-0.8692
                                                                  Median :0.5341
                                                                                    Median :-0.7501
##
                                                                                           :-0.8071
##
               Mean
                     :45
                            Mean
                                   :-0.1611
                                                      :-0.9312
                                                                  Mean
                                                                         :0.6090
                                                                                    Mean
                                                Mean
##
               3rd Qu.:55
                             3rd Qu.:-0.1011
                                                3rd Qu.:-0.7336
                                                                   3rd Qu.:0.7215
                                                                                     3rd Qu.:-0.6393
##
               Max.
                      :65
                             Max.
                                   : 0.2274
                                                Max.
                                                       :-0.3632
                                                                  Max.
                                                                          :0.9438
                                                                                    Max.
                                                                                            :-0.2681
                                            lv
##
          se
## Min.
           :0.2420
                             :0.3358
                                       Length:10
                     Min.
                     1st Qu.:0.4864
## 1st Qu.:0.3059
                                       Class : character
                                       Mode :character
## Median :0.3698
                     Median :0.6264
## Mean
           :0.3922
                     Mean
                             :0.6117
                     3rd Qu.:0.6866
##
    3rd Qu.:0.4382
## Max.
           :0.6051
                     Max.
                             :0.8801
outdt0$data <- "Online"</pre>
outdtm$data <- "Mail-in"
visdt <- rbind(outdt0,outdtm)</pre>
visdt$data <- factor(visdt$data, levels=c("Online", "Mail-in"))</pre>
visdt$pstar <- factor(ifelse(visdt$p>=.1, "n.s.", ifelse(visdt$p>=.05, "p<.1", "p<.05")),</pre>
                      levels = c("p<.05", "p<.1", "n.s."))
saveRDS(subset(visdt, data=="Mail-in"), paste0(projdir, "/out/visdtx_mail_multinom.rds"))
require(ggplot2)
p <- ggplot(visdt, aes(x=factor(age, levels=rev(names(table(age)))), y=est)) +</pre>
 geom_hline(aes(yintercept=0), linetype=2) +
```

Min.

1st

Medi

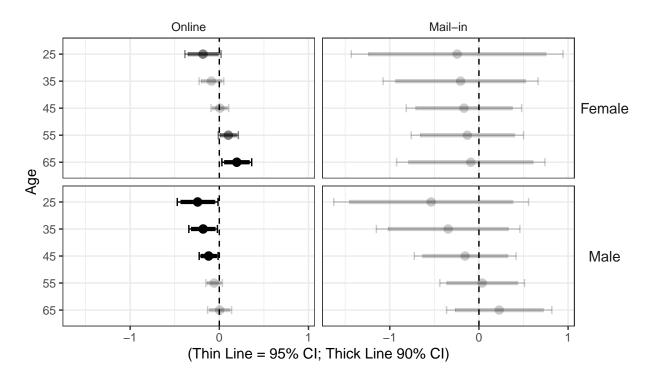
Mean

3rd

Max.

```
geom_errorbar(aes(ymin=lci95,ymax=uci95,colour="1",alpha=pstar),
                position=position_dodge(width=-0.7), size=0.5, width=0.3) +
  geom_errorbar(aes(ymin=lci90,ymax=uci90,colour="1",alpha=pstar),
                position=position_dodge(width=-0.7), size=1.5, width=0.0) +
  geom_point(aes(shape=lv, colour="1",alpha=pstar),
             position=position_dodge(width=-0.7), size=3) +
  facet_grid(gender ~ data) +
  \#scale_y\_continuous(breaks = c(-0.1, -0.05, 0.00, 0.05)) +
  scale_shape_discrete(name="Change in residece after university") +
  scale_color_manual(name="Change in residece after university",values=rep("black", 1)) +
  scale_alpha_manual(name="Significance", values=c(1,0.5,0.2)) +
  ylab("(Thin Line = 95% CI; Thick Line 90% CI)") +
  xlab("Age") +
  labs(caption="Treatment: University education (1:attained, 0:not attained). Outcome: Agreement with g
  coord_flip() + theme_bw() +
  theme(legend.position = "bottom",
        strip.text.x = element_text(size=9),
        strip.text.y = element_text(angle=0,size=11),
        strip.background = element_rect(fill=NA, color=NA),
        plot.caption = element_text(hjust=0),
        plot.subtitle = element_text(hjust=0.5))
## Warning: position_dodge requires non-overlapping x intervals
## Warning: position_dodge requires non-overlapping x intervals
## Warning: position_dodge requires non-overlapping x intervals
```

Warning: position_dodge requires non-overlapping x intervals



→ p<.1 → n.s. Change in residece after university → 1 Change in residece after university

Treatment: University education (1:attained, 0:not attained). Outcome: Agreement with granting suffrage to pe

ggsave(paste0(projdir,"/out/mailineffectplotx_multinom.png"),p,width=8,height=5)

Warning: position_dodge requires non-overlapping x intervals

Save Image

save.image(file=paste0(projdir,"/out/heavy/analysis_1x_original_mail_v5.RData"))