

Analysis 2x: Main Analysis with Matched 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"))
cat(paste("Working Directory Set to:\n",projdir))

## Working Directory Set to:
## /home/gentok/GoogleDrive/Projects/Fan-Gento-Lab/ForeignerJapan
setwd(projdir)

## Original Data
originaldir1a <- paste0(projdir, "/data/sifcct_zip_latest_v5.rds")
originaldir1b <- paste0(projdir, "/data/sifcct_zip_latest_panel_v5.rds")
original <- rbind(readRDS(originaldir1a),readRDS(originaldir1b))

## Matched/Unmatched Data Locations
datadir0x <- paste0(projdir, "/data/sifcct_moved_unmatched_v5.rds")
datadir1x <- paste0(projdir, "/data/sifcct_moved_matched_1_all_v5.rds")

## packages
require(sandwich)
require(lmtest)
require(MASS)
# devtools::install_github("tidyverse/ggplot2") # Need development version (as of Dec 31, 2019)
library(ggplot2)
require(texreg)
# require(nnet)
require(mlogit)
```

```

require(dfidx)
require(Formula)

## Formula (SIFCCT) ##

basemod0 <- formula( ~ edu2*male*agex + lvpr +
  as.factor(wave)) # sifcct
basemodA <- formula( ~ edu2*male*agex + lvpr +
  zip_did + sqrt(c10_sreg_fper) + I(c10_sreg_edu_ugsP/10) +
  as.factor(wave)) # sifcct
basemodB <- formula( ~ edu2*male*agex + lvpr +
  didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10) +
  as.factor(wave)) # sifcct
basemodC <- formula( ~ 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) +
  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 +
  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

## Variable Names ##

vnmap <- list("edu2" = "University education",
  "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)",
"sqr(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.)",
"sqr(c10_mun_fper)" = "Foreigner % sqrt. (mun.)",
"I(c10_mun_edu_ugsP/10)" = "University % by 10% (mun.)",
"c10_mun_edu_ugsP" = "University % (mun.)"

```

With Unmatched Data

```

sifcct <- readRDS(datadir0x)
sifcct$agex <- sifcct$age/10 - 4.5
sifcct$ldpdpjft <- original$ldpdpjft[match(paste(sifcct$id,sifcct$wave),paste(original$id,original$wave))]
summary(sifcct$ldpdpjft)

```

```

##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.0000 0.5000 0.5000 0.5573 0.6500 1.0000

```

```

sifcct$income <- original$income[match(paste(sifcct$id,sifcct$wave),paste(original$id,original$wave))]
summary(sifcct$income)

```

```

##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
## 0.04098 0.18484 0.40915 0.51647 0.78565 0.97505

```

Outcome Model

```

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

```

```

s0mox_10 <- lm(update(foreignsuff ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mox_1A <- lm(update(foreignsuff ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mox_1B <- lm(update(foreignsuff ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mox_1C <- lm(update(foreignsuff ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(s0mox_10,s0mox_1A,s0mox_1B,s0mox_1C), digits = 4, #single.row = T,
  override.se = list(coefest(s0mox_10,vcov.=vcovHC(s0mox_10))[,2],
    coefest(s0mox_1A,vcov.=vcovHC(s0mox_1A))[,2],
    coefest(s0mox_1B,vcov.=vcovHC(s0mox_1B))[,2],
    coefest(s0mox_1C,vcov.=vcovHC(s0mox_1C))[,2]),
  override.pvalues = list(coefest(s0mox_10,vcov.=vcovHC(s0mox_10))[,4],
    coefest(s0mox_1A,vcov.=vcovHC(s0mox_1A))[,4],
    coefest(s0mox_1B,vcov.=vcovHC(s0mox_1B))[,4],
    coefest(s0mox_1C,vcov.=vcovHC(s0mox_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          -0.0019          -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 **          -0.0162 **          -0.0162 **          -0.0162 **
##                               (0.0056)          (0.0056)          (0.0056)          (0.0056)
## Foreigner % sqrt. (zip)      -0.0037             -0.0037             -0.0037             -0.0037
##                               (0.0039)          (0.0039)          (0.0039)          (0.0039)
## University % by 10% (zip)    -0.0001             -0.0001             -0.0001             -0.0001
##                               (0.0025)          (0.0025)          (0.0025)          (0.0025)
## DID proportion (mun.)        -0.0103             -0.0103             -0.0103             -0.0103
##                               (0.0101)          (0.0101)          (0.0101)          (0.0101)
## Foreigner % sqrt. (mun.)     -0.0071             -0.0071             -0.0071             -0.0071
##                               (0.0053)          (0.0053)          (0.0053)          (0.0053)
## University % by 10% (mun.)   0.0012              0.0012              0.0012              0.0012
##                               (0.0038)          (0.0038)          (0.0038)          (0.0038)
## -----
## 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
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

```
extout <- function(gender,ageset,sub=1) {

  if (gender=="Male") sifcct$gender <- sifcct$female
  if (gender=="Female") sifcct$gender <- sifcct$male
  sifcct$ageset <- (sifcct$age - ageset)/10

  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),])
    subname = "Stayed"
  } else {
```

```

modset <- lm(foreignsuff ~ edu2 * gender * ageset + lvpr + as.factor(wave),
             data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
subname = "Moved"
}

res <- c(gender,ageset,coef(modset)[2],
         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")

return(res)

}

outdt0x <- rbind(extout("Female",25,2),
                 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))
outdt0x <- as.data.frame(outdt0x)
for(i in 2:9) outdt0x[,i] <- as.numeric(outdt0x[,i])
outdt0x$gender <- factor(outdt0x$gender, levels=unique(outdt0x$gender))
summary(outdt0x)

```

```

##      gender      age      est      lci95      uci95      lci90
## Female:5  Min.   :25  Min.   :-0.038697  Min.   :-0.070512  Min.   :-0.0084444  Min.   :-0.065
## Male   :5  1st Qu.:35  1st Qu.: -0.025859  1st Qu.: -0.048402  1st Qu.: -0.0056096  1st Qu.: -0.044
##          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.:55  3rd Qu.: -0.003113  3rd Qu.: -0.017312  3rd Qu.: 0.0124302  3rd Qu.: -0.015
##          Max.   :65  Max.   : 0.023066  Max.   : 0.001465  Max.   : 0.0446669  Max.   : 0.004
##      uci90      se      p      lv
## 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
## Max.   : 0.041194  Max.   :0.016232  Max.   :0.759719

```

Outcome Model 2

```

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

# require(nnet)
# s0mox2_10 <- multinom(update(foreignsuff3x ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])

```

```

# s0mox2_1A <- multinom(update(foreignsuff3x ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
# s0mox2_1B <- multinom(update(foreignsuff3x ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
# s0mox2_1C <- multinom(update(foreignsuff3x ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])

sifcct.mlogit <- dfidx(sifcct[which(sifcct$age - sifcct$lvlen>=23),],
                      shape = "wide", choice = "foreignsuff3x")
# # levels(sifcct.mlogit$id1$id2) <- c("Disagree","Neither","Agree")
s0mox2_10 <- mlogit(outmod0.mlogit, data=sifcct.mlogit, reflevel="Disagree")
s0mox2_1A <- mlogit(outmodA.mlogit, data=sifcct.mlogit, reflevel="Disagree")
s0mox2_1B <- mlogit(outmodB.mlogit, data=sifcct.mlogit, reflevel="Disagree")
s0mox2_1C <- mlogit(outmodC.mlogit, data=sifcct.mlogit, reflevel="Disagree")

screenreg(list(s0mox2_10,s0mox2_1A), digits = 4, #single.row = T,
            override.se = list(coeftest(s0mox2_10,vcov=sandwich)[grep(":Neither",names(coef(s0mox2_10))),2],
                              coeftest(s0mox2_10,vcov=sandwich)[grep(":Agree",names(coef(s0mox2_10))),2],
                              coeftest(s0mox2_1A,vcov=sandwich)[grep(":Neither",names(coef(s0mox2_1A))),2],
                              coeftest(s0mox2_1A,vcov=sandwich)[grep(":Agree",names(coef(s0mox2_1A))),2]),
            override.pvalues = list(coeftest(s0mox2_10,vcov=sandwich)[grep(":Neither",names(coef(s0mox2_10))),2],
                                    coeftest(s0mox2_10,vcov=sandwich)[grep(":Agree",names(coef(s0mox2_10))),2],
                                    coeftest(s0mox2_1A,vcov=sandwich)[grep(":Neither",names(coef(s0mox2_1A))),2],
                                    coeftest(s0mox2_1A,vcov=sandwich)[grep(":Agree",names(coef(s0mox2_1A))),2]),

            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: Agree      Base: Neither      ZIP: Agree      ZIP: Neither
## -----
## University education                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)          (0.0563)          (0.0569)          (0.0564)
## Male * Age                        0.1272          0.0550 **        0.1244          0.0535 **
##                                   (0.0428)          (0.0431)          (0.0428)          (0.0431)
## % of Life Residing Locally (zip)  -0.2106          -0.0032 +        -0.2329          -0.0243 *
##                                   (0.1123)          (0.1081)          (0.1128)          (0.1085)
## DID residence (zip)                -0.1274          -0.0373 **
##                                   (0.0418)          (0.0409)
## Foreigner % sqrt. (zip)           -0.0176          -0.0425
##                                   (0.0290)          (0.0280)
## University % by 10% (zip)         -0.0036          -0.0168
##                                   (0.0185)          (0.0183)
## -----

```

```

## AIC                                51942.8378      51942.8378      51938.2602      51938.2602
## Log Likelihood                     -25913.4189      -25913.4189      -25905.1301      -25905.1301
## Num. obs.                          24147          24147          24147          24147
## K                                  3              3              3              3
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1

screenreg(list(s0mox2_1B,s0mox2_1C), digits = 4, #single.row = T,
  override.se = list(coeftest(s0mox2_1B,vcov=sandwich)[grep(":Neither",names(coef(s0mox2_1B))),4],
    coeftest(s0mox2_1B,vcov=sandwich)[grep(":Agree",names(coef(s0mox2_1B))),2],
    coeftest(s0mox2_1C,vcov=sandwich)[grep(":Neither",names(coef(s0mox2_1C))),4],
    coeftest(s0mox2_1C,vcov=sandwich)[grep(":Agree",names(coef(s0mox2_1C))),2],
  override.pvalues = list(coeftest(s0mox2_1B,vcov=sandwich)[grep(":Neither",names(coef(s0mox2_1B))),4],
    coeftest(s0mox2_1B,vcov=sandwich)[grep(":Agree",names(coef(s0mox2_1B))),2],
    coeftest(s0mox2_1C,vcov=sandwich)[grep(":Neither",names(coef(s0mox2_1C))),4],
    coeftest(s0mox2_1C,vcov=sandwich)[grep(":Agree",names(coef(s0mox2_1C))),2],
  beside = T,
  omit.coef = "(wave)",stars = c(0.1,0.05,0.01,0.001), symbol = "+",
  custom.coef.map = vnmap,
  custom.model.names = c("Mun.: Agree","Mun.: Neither",
    "Full: Agree","Full: Neither"))

##
## =====
##                               Mun.: Agree      Mun.: Neither      Full: Agree      Full: Neither
## -----
## University education          0.0126 ***      -0.3328          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          0.0327
##                               (0.0752)          (0.0871)
## Foreigner % sqrt. (mun.)     -0.0296          0.0436
##                               (0.0394)          (0.0536)
## University % by 10% (mun.)   0.0003          0.0113
##                               (0.0280)          (0.0380)
## -----

```



```

## AIC                                51951.2486        51951.2486        51948.0233        51948.0233
## Log Likelihood                     -25911.6243        -25911.6243        -25904.0117        -25904.0117
## Num. obs.                          24147            24147            24147            24147
## K                                  3                3                3                3
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1

extout <- function(gender,ageset,sub=1) {

  if (gender=="Male") sifcct$gender <- sifcct$female
  if (gender=="Female") sifcct$gender <- sifcct$male
  sifcct$ageset <- (sifcct$age - ageset)/10

  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/10) +
    #                    as.factor(wave), data=sifcct[which(sifcct$age - sifcct$lvlen<=15),],
    #                    Hess = TRUE)
    sifcct.mlogit.tmp <- dfidx(sifcct[which(sifcct$age - sifcct$lvlen<=15),],
                             shape = "wide", choice = "foreignsuff3x")
    # levels(sifcct.mlogit.tmp$id2) <- c("Disagree","Neither","Agree")
    modset <- mlogit(foreignsuff3x ~ 0 | edu2 * gender * ageset + lvpr + zip_did + sqrt(c10_sreg_fper) +
                    I(c10_sreg_edu_ugsP/10) + didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10) +
                    as.factor(wave), data=sifcct.mlogit.tmp, reflevel = "Disagree")
    subname = "Stayed"
  } else {
    # modset <- multinom(foreignsuff3x ~ edu2 * gender * ageset + lvpr + as.factor(wave),
    #                    data=sifcct[which(sifcct$age - sifcct$lvlen>=23),],
    #                    Hess = TRUE)
    sifcct.mlogit.tmp <- dfidx(sifcct[which(sifcct$age - sifcct$lvlen>=23),],
                             shape = "wide", choice = "foreignsuff3x")
    # levels(sifcct.mlogit.tmp$id2) <- c("Disagree","Neither","Agree")
    modset <- mlogit(foreignsuff3x ~ 0 | edu2 * gender * ageset + lvpr + as.factor(wave),
                    data=sifcct.mlogit.tmp, reflevel = "Disagree")
    subname = "Moved"
  }

  # modres <- extract(modset)

  # 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:
  #         modres@coef[grep("^Agree: edu2$",modres@coef.names)] + qnorm(0.975)*modres@se[grep("^Agree:
  #         modres@coef[grep("^Agree: edu2$",modres@coef.names)] - qnorm(0.95)*modres@se[grep("^Agree:
  #         modres@coef[grep("^Agree: edu2$",modres@coef.names)] + qnorm(0.95)*modres@se[grep("^Agree:
  #         modres@se[grep("^Agree: edu2$",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")

```

```

return(res)

}

outdt0xm <- rbind(extout("Female",25,2),
  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))
outdt0xm <- as.data.frame(outdt0xm)
for(i in 2:9) outdt0xm[,i] <- as.numeric(outdt0xm[,i])
outdt0xm$gender <- factor(outdt0xm$gender, levels=unique(outdt0xm$gender))
summary(outdt0xm)

```

```

##      gender      age      est      lci95      uci95      lci90
## Female:5  Min.   :25  Min.   :-0.243140  Min.   :-0.47155  Min.   :-0.021194  Min.   :-0.43483
## Male   :5  1st Qu.:35  1st Qu.: -0.166098  1st Qu.: -0.31315  1st Qu.: -0.005643  1st Qu.: -0.28920
##          Median :45  Median : -0.073352  Median : -0.18847  Median : 0.042493  Median : -0.17057
##          Mean   :45  Mean   : -0.056795  Mean   : -0.20097  Mean   : 0.087382  Mean   : -0.17779
##          3rd Qu.:55  3rd Qu.: 0.005561  3rd Qu.: -0.10201  3rd Qu.: 0.129604  3rd Qu.: -0.08472
##          Max.   :65  Max.   : 0.195778  Max.   : 0.02856  Max.   : 0.363000  Max.   : 0.05544
##      uci90      se      p      lv
## Min.   :-0.05145  Min.   :0.04746  Min.   :0.02175  Length:10
## 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

```

Mediator Models

Knowledge

```

s0mmx01_10 <- lm(update(knowledge ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx01_1A <- lm(update(knowledge ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx01_1B <- lm(update(knowledge ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx01_1C <- lm(update(knowledge ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(s0mmx01_10,s0mmx01_1A,s0mmx01_1B,s0mmx01_1C), digits = 4, #single.row = T,
  override.se = list(coefest(s0mmx01_10,vcov.=vcovHC(s0mmx01_10))[,2],
    coefest(s0mmx01_1A,vcov.=vcovHC(s0mmx01_1A))[,2],
    coefest(s0mmx01_1B,vcov.=vcovHC(s0mmx01_1B))[,2],
    coefest(s0mmx01_1C,vcov.=vcovHC(s0mmx01_1C))[,2]),
  override.pvalues = list(coefest(s0mmx01_10,vcov.=vcovHC(s0mmx01_10))[,4],
    coefest(s0mmx01_1A,vcov.=vcovHC(s0mmx01_1A))[,4],
    coefest(s0mmx01_1B,vcov.=vcovHC(s0mmx01_1B))[,4],
    coefest(s0mmx01_1C,vcov.=vcovHC(s0mmx01_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          0.1545 ***      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 +       0.0092 **       0.0108 +
##                               (0.0047)      (0.0032)      (0.0056)
## Foreigner % sqrt. (zip)       0.0092 **       0.0234 ***      0.0068
##                               (0.0032)      (0.0021)      (0.0046)
## University % by 10% (zip)     0.0234 ***      0.0179 ***      0.0179 ***
##                               (0.0021)      (0.0030)      (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          24147
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Ideology

```
s0mmx02_10 <- lm(update(ideology ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx02_1A <- lm(update(ideology ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx02_1B <- lm(update(ideology ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx02_1C <- lm(update(ideology ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(s0mmx02_10,s0mmx02_1A,s0mmx02_1B,s0mmx02_1C), digits = 4, #single.row = T,
  override.se = list(coeftest(s0mmx02_10,vcov.=vcovHC(s0mmx02_10))[,2],
    coeftest(s0mmx02_1A,vcov.=vcovHC(s0mmx02_1A))[,2],
    coeftest(s0mmx02_1B,vcov.=vcovHC(s0mmx02_1B))[,2],
    coeftest(s0mmx02_1C,vcov.=vcovHC(s0mmx02_1C))[,2]),
  override.pvalues = list(coeftest(s0mmx02_10,vcov.=vcovHC(s0mmx02_10))[,4],
```

```

coeftest(s0mmx02_1A,vcov.=vcovHC(s0mmx02_1A))[,4],
coeftest(s0mmx02_1B,vcov.=vcovHC(s0mmx02_1B))[,4],
coeftest(s0mmx02_1C,vcov.=vcovHC(s0mmx02_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          -0.0132 ***        -0.0130 ***        -0.0125 **        -0.0129 ***
##                               (0.0039)          (0.0039)          (0.0039)          (0.0039)
## Gender (male)                 -0.0377 ***        -0.0378 ***        -0.0379 ***        -0.0379 ***
##                               (0.0052)          (0.0052)          (0.0052)          (0.0052)
## Age (by 10 years, centered at 45) -0.0082 ***        -0.0083 ***        -0.0081 ***        -0.0082 ***
##                               (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)          (0.0032)
## University * Male * Age       -0.0025           -0.0028           -0.0024           -0.0026
##                               (0.0050)          (0.0050)          (0.0050)          (0.0050)
## Male * Age                    0.0144 ***         0.0146 ***         0.0144 ***         0.0145 ***
##                               (0.0039)          (0.0039)          (0.0039)          (0.0039)
## % of Life Residing Locally (zip) 0.0184 +         0.0184 +         0.0178 +         0.0182 +
##                               (0.0098)          (0.0098)          (0.0098)          (0.0098)
## 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 +
##                               (0.0065)          (0.0077)
## 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
## Adj. R^2                       0.0057           0.0059           0.0057           0.0060
## Num. obs.                     24147           24147           24147           24147
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1

```

LDP - DPJ FT

```

s0mmx03_10 <- lm(update(ldpdjft ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx03_1A <- lm(update(ldpdjft ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx03_1B <- lm(update(ldpdjft ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx03_1C <- lm(update(ldpdjft ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(s0mmx03_10,s0mmx03_1A,s0mmx03_1B,s0mmx03_1C), digits = 4, #single.row = T,

```

```

override.se = list(coeftest(s0mmx03_10,vcov.=vcovHC(s0mmx03_10))[,2],
  coeftest(s0mmx03_1A,vcov.=vcovHC(s0mmx03_1A))[,2],
  coeftest(s0mmx03_1B,vcov.=vcovHC(s0mmx03_1B))[,2],
  coeftest(s0mmx03_1C,vcov.=vcovHC(s0mmx03_1C))[,2]),
override.pvalues = list(coeftest(s0mmx03_10,vcov.=vcovHC(s0mmx03_10))[,4],
  coeftest(s0mmx03_1A,vcov.=vcovHC(s0mmx03_1A))[,4],
  coeftest(s0mmx03_1B,vcov.=vcovHC(s0mmx03_1B))[,4],
  coeftest(s0mmx03_1C,vcov.=vcovHC(s0mmx03_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 (zip) -0.0062          -0.0046          -0.0056          -0.0043
##                               (0.0075)          (0.0075)          (0.0075)          (0.0075)
## DID residence (zip)            0.0062 *        0.0062 *        0.0062 *        0.0071 *
##                               (0.0028)          (0.0028)          (0.0028)          (0.0033)
## Foreigner % sqrt. (zip)        0.0038 *        0.0038 *        0.0038 *        0.0049 +
##                               (0.0019)          (0.0019)          (0.0019)          (0.0027)
## University % by 10% (zip)      0.0001          0.0001          0.0001          0.0018
##                               (0.0012)          (0.0012)          (0.0012)          (0.0018)
## DID proportion (mun.)          0.0050          0.0050          0.0050          -0.0019
##                               (0.0049)          (0.0049)          (0.0049)          (0.0058)
## Foreigner % sqrt. (mun.)       0.0036          0.0036          0.0036          -0.0010
##                               (0.0026)          (0.0026)          (0.0026)          (0.0036)
## University % by 10% (mun.)     -0.0011          -0.0011          -0.0011          -0.0031
##                               (0.0018)          (0.0018)          (0.0018)          (0.0025)
## -----
## R^2                           0.1203          0.1207          0.1204          0.1208
## Adj. R^2                       0.1192          0.1196          0.1193          0.1196
## Num. obs.                      24147          24147          24147          24147
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1

```

Favorability of South Korea

```
s0mmx04_10 <- lm(update(familiarityFT_KOR ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=,
s0mmx04_1A <- lm(update(familiarityFT_KOR ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=,
s0mmx04_1B <- lm(update(familiarityFT_KOR ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=,
s0mmx04_1C <- lm(update(familiarityFT_KOR ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=,
screenreg(list(s0mmx04_10,s0mmx04_1A,s0mmx04_1B,s0mmx04_1C), digits = 4, #single.row = T,
  override.se = list(coefest(s0mmx04_10,vcov.=vcovHC(s0mmx04_10))[,2],
    coefest(s0mmx04_1A,vcov.=vcovHC(s0mmx04_1A))[,2],
    coefest(s0mmx04_1B,vcov.=vcovHC(s0mmx04_1B))[,2],
    coefest(s0mmx04_1C,vcov.=vcovHC(s0mmx04_1C))[,2]),
  override.pvalues = list(coefest(s0mmx04_10,vcov.=vcovHC(s0mmx04_10))[,4],
    coefest(s0mmx04_1A,vcov.=vcovHC(s0mmx04_1A))[,4],
    coefest(s0mmx04_1B,vcov.=vcovHC(s0mmx04_1B))[,4],
    coefest(s0mmx04_1C,vcov.=vcovHC(s0mmx04_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          0.0100 *          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 +         -0.0218 *         -0.0215 *         -0.0222 *
##                               (0.0108)          (0.0109)          (0.0108)          (0.0109)
## DID residence (zip)           -0.0083 *          -0.0082 +          -0.0082 +
##                               (0.0041)          (0.0041)          (0.0041)          (0.0041)
## Foreigner % sqrt. (zip)       0.0004            0.0004            0.0004            0.0004
##                               (0.0028)          (0.0028)          (0.0028)          (0.0028)
## University % by 10% (zip)     0.0005            0.0005            0.0005            0.0005
##                               (0.0018)          (0.0018)          (0.0018)          (0.0018)
## DID proportion (mun.)         -0.0092           -0.0092           -0.0092           -0.0092
##                               (0.0073)          (0.0073)          (0.0073)          (0.0073)
## Foreigner % sqrt. (mun.)      0.0025            0.0025            0.0025            0.0025
##                               (0.0039)          (0.0039)          (0.0039)          (0.0039)
## University % by 10% (mun.)    0.0016            0.0016            0.0016            0.0016
##                               (0.0027)          (0.0027)          (0.0027)          (0.0027)
## -----
## R^2                           0.0684            0.0686            0.0685            0.0686
## 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

```
s0mmx05_10 <- lm(update(familiarityFT_CHN ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s0mmx05_1A <- lm(update(familiarityFT_CHN ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s0mmx05_1B <- lm(update(familiarityFT_CHN ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s0mmx05_1C <- lm(update(familiarityFT_CHN ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=
screenreg(list(s0mmx05_10,s0mmx05_1A,s0mmx05_1B,s0mmx05_1C), digits = 4, #single.row = T,
  override.se = list(coeftest(s0mmx05_10,vcov.=vcovHC(s0mmx05_10))[,2],
                    coeftest(s0mmx05_1A,vcov.=vcovHC(s0mmx05_1A))[,2],
                    coeftest(s0mmx05_1B,vcov.=vcovHC(s0mmx05_1B))[,2],
                    coeftest(s0mmx05_1C,vcov.=vcovHC(s0mmx05_1C))[,2]),
  override.pvalues = list(coeftest(s0mmx05_10,vcov.=vcovHC(s0mmx05_10))[,4],
                        coeftest(s0mmx05_1A,vcov.=vcovHC(s0mmx05_1A))[,4],
                        coeftest(s0mmx05_1B,vcov.=vcovHC(s0mmx05_1B))[,4],
                        coeftest(s0mmx05_1C,vcov.=vcovHC(s0mmx05_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                0.0201 ***                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)
## University * Male * Age                0.0014                0.0015                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)                -0.0257 **                -0.0250 **                -0.0252 **                -0.0259 **
##                (0.0094)                (0.0094)                (0.0094)                (0.0094)
## DID residence (zip)                -0.0022                -0.0022                -0.0022                -0.0014
##                (0.0035)                (0.0035)                (0.0035)                (0.0041)
## Foreigner % sqrt. (zip)                0.0027                0.0027                0.0027                0.0008
##                (0.0024)                (0.0024)                (0.0024)                (0.0033)
## University % by 10% (zip)                0.0009                0.0009                0.0009                -0.0024
##                (0.0016)                (0.0016)                (0.0016)                (0.0022)
## DID proportion (mun.)                -0.0064                -0.0064                -0.0064                -0.0052
##                (0.0064)                (0.0064)                (0.0064)                (0.0075)
## Foreigner % sqrt. (mun.)                0.0049                0.0049                0.0049                0.0055
##                (0.0034)                (0.0034)                (0.0034)                (0.0046)
## University % by 10% (mun.)                0.0042 +                0.0042 +                0.0042 +                0.0066 *
```



```
##
## -----
## R^2                0.0241        0.0242        0.0244        0.0244
## Adj. R^2          0.0230        0.0229        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

```
s0mmx06_10 <- lm(update(familiarityFT_USA ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s0mmx06_1A <- lm(update(familiarityFT_USA ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s0mmx06_1B <- lm(update(familiarityFT_USA ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s0mmx06_1C <- lm(update(familiarityFT_USA ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=
screenreg(list(s0mmx06_10,s0mmx06_1A,s0mmx06_1B,s0mmx06_1C), digits = 4, #single.row = T,
  override.se = list(coeftest(s0mmx06_10,vcov.=vcovHC(s0mmx06_10))[,2],
    coeftest(s0mmx06_1A,vcov.=vcovHC(s0mmx06_1A))[,2],
    coeftest(s0mmx06_1B,vcov.=vcovHC(s0mmx06_1B))[,2],
    coeftest(s0mmx06_1C,vcov.=vcovHC(s0mmx06_1C))[,2]),
  override.pvalues = list(coeftest(s0mmx06_10,vcov.=vcovHC(s0mmx06_10))[,4],
    coeftest(s0mmx06_1A,vcov.=vcovHC(s0mmx06_1A))[,4],
    coeftest(s0mmx06_1B,vcov.=vcovHC(s0mmx06_1B))[,4],
    coeftest(s0mmx06_1C,vcov.=vcovHC(s0mmx06_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          0.0128 **          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)
## Age (by 10 years, centered at 45) 0.0080 ***          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          -0.0036          -0.0036          -0.0058
##                               (0.0036)          (0.0036)          (0.0036)          (0.0043)
## Foreigner % sqrt. (zip)       0.0030          0.0030          0.0030          0.0025
##                               (0.0025)          (0.0025)          (0.0025)          (0.0034)
## University % by 10% (zip)     0.0096 ***          0.0096 ***          0.0096 ***          0.0098 ***
##                               (0.0016)          (0.0016)          (0.0016)          (0.0023)
## DID proportion (mun.)         0.0014          0.0014          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
## Num. obs. 24147 24147 24147 24147
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Income

```
s0mmx07_10 <- lm(update(income ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx07_1A <- lm(update(income ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx07_1B <- lm(update(income ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s0mmx07_1C <- lm(update(income ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(s0mmx07_10,s0mmx07_1A,s0mmx07_1B,s0mmx07_1C), digits = 4, #single.row = T,
  override.se = list(coeftest(s0mmx07_10,vcov.=vcovHC(s0mmx07_10))[,2],
    coeftest(s0mmx07_1A,vcov.=vcovHC(s0mmx07_1A))[,2],
    coeftest(s0mmx07_1B,vcov.=vcovHC(s0mmx07_1B))[,2],
    coeftest(s0mmx07_1C,vcov.=vcovHC(s0mmx07_1C))[,2]),
  override.pvalues = list(coeftest(s0mmx07_10,vcov.=vcovHC(s0mmx07_10))[,4],
    coeftest(s0mmx07_1A,vcov.=vcovHC(s0mmx07_1A))[,4],
    coeftest(s0mmx07_1B,vcov.=vcovHC(s0mmx07_1B))[,4],
    coeftest(s0mmx07_1C,vcov.=vcovHC(s0mmx07_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 0.0961 *** 0.0747 *** 0.0807 *** 0.0742 ***
## (0.0054) (0.0053) (0.0053) (0.0053)
## Gender (male) -0.0430 *** -0.0342 *** -0.0374 *** -0.0340 ***
## (0.0059) (0.0058) (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)
## University * Male 0.0385 *** 0.0350 *** 0.0362 *** 0.0351 ***
## (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)
## Male * Age -0.0056 -0.0055 -0.0045 -0.0051
## (0.0043) (0.0043) (0.0043) (0.0043)
## % of Life Residing Locally (zip) 0.1046 *** 0.1305 *** 0.1169 *** 0.1279 ***
## (0.0127) (0.0125) (0.0126) (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
## (0.0080) (0.0094)
## 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. 24147 24147 24147 24147
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

With Matched Data (Without Distance Adjustment)

```
sifcct <- readRDS(datadir1x)
sifcct$agex <- sifcct$age/10 - 4.5
sifcct$ldpdpjft <- original$ldpdpjft[match(paste(sifcct$id,sifcct$wave),paste(original$id,original$wave))]
summary(sifcct$ldpdpjft)
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.0000 0.5000 0.5000 0.5564 0.6500 1.0000
```

```
sifcct$income <- original$income[match(paste(sifcct$id,sifcct$wave),paste(original$id,original$wave))]
summary(sifcct$income)
```

```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0.04098 0.18484 0.40915 0.50495 0.78565 0.97505
```

Outcome Model

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

```
s1mox_10 <- lm(update(foreignsuff ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mox_1A <- lm(update(foreignsuff ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mox_1B <- lm(update(foreignsuff ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mox_1C <- lm(update(foreignsuff ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(s1mox_10,s1mox_1A,s1mox_1B,s1mox_1C), digits = 4, #single.row = T,
  override.se = list(coeftest(s1mox_10,vcov.=vcovHC(s1mox_10))[,2],
    coeftest(s1mox_1A,vcov.=vcovHC(s1mox_1A))[,2],
    coeftest(s1mox_1B,vcov.=vcovHC(s1mox_1B))[,2],
    coeftest(s1mox_1C,vcov.=vcovHC(s1mox_1C))[,2]),
  override.pvalues = list(coeftest(s1mox_10,vcov.=vcovHC(s1mox_10))[,4],
    coeftest(s1mox_1A,vcov.=vcovHC(s1mox_1A))[,4],
    coeftest(s1mox_1B,vcov.=vcovHC(s1mox_1B))[,4],
    coeftest(s1mox_1C,vcov.=vcovHC(s1mox_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          -0.0063          -0.0048          -0.0057          -0.0048
##                               (0.0071)          (0.0072)          (0.0072)          (0.0072)
## Gender (male)                 -0.0589 ***          -0.0592 ***          -0.0590 ***          -0.0591 ***
##                               (0.0081)          (0.0081)          (0.0081)          (0.0081)
## Age (by 10 years, centered at 45) -0.0091 *          -0.0088 *          -0.0092 *          -0.0090 *
##                               (0.0044)          (0.0044)          (0.0045)          (0.0045)
## University * Male             -0.0238 *          -0.0234 *          -0.0238 *          -0.0236 *
##                               (0.0118)          (0.0118)          (0.0118)          (0.0118)
## University * Age              0.0075          0.0070          0.0072          0.0071
##                               (0.0060)          (0.0060)          (0.0060)          (0.0060)
## University * Male * Age       0.0039          0.0042          0.0040          0.0041
##                               (0.0091)          (0.0091)          (0.0091)          (0.0091)
## Male * Age                    0.0118 +          0.0113 +          0.0116 +          0.0114 +
##                               (0.0063)          (0.0063)          (0.0063)          (0.0063)
## % of Life Residing Locally (zip) -0.0067          -0.0103          -0.0075          -0.0096
##                               (0.0192)          (0.0192)          (0.0192)          (0.0193)
## DID residence (zip)           -0.0139 *          -0.0139 *          -0.0139 *          -0.0200 *
##                               (0.0069)          (0.0069)          (0.0069)          (0.0082)
## Foreigner % sqrt. (zip)       -0.0090 +          -0.0090 +          -0.0090 +          -0.0070
##                               (0.0049)          (0.0049)          (0.0049)          (0.0068)
## University % by 10% (zip)     0.0016          0.0016          0.0016          0.0010
##                               (0.0032)          (0.0032)          (0.0032)          (0.0045)
## DID proportion (mun.)         -0.0005          -0.0005          -0.0005          0.0188
##                               (0.0126)          (0.0126)          (0.0126)          (0.0149)
## Foreigner % sqrt. (mun.)     -0.0133 *          -0.0133 *          -0.0133 *          -0.0064
##                               (0.0067)          (0.0067)          (0.0067)          (0.0093)
## University % by 10% (mun.)   0.0019          0.0019          0.0019          0.0031
##                               (0.0048)          (0.0048)          (0.0048)          (0.0066)
## -----
## R^2                          0.0133          0.0139          0.0136          0.0141
## Adj. R^2                     0.0115          0.0119          0.0116          0.0119
## Num. obs.                    15252          15252          15252          15252
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

```
extout <- function(gender,ageset,sub=1) {

  if (gender=="Male") sifcct$gender <- sifcct$female
  if (gender=="Female") sifcct$gender <- sifcct$male
  sifcct$ageset <- (sifcct$age - ageset)/10

  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),])
    subname = "Stayed"
  } else {
    modset <- lm(foreignsuff ~ edu2 * gender * ageset + lvpr + as.factor(wave),
                  data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
    subname = "Moved"
  }
}
```

```

res <- c(gender,ageset,coef(modset)[2],
        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")

return(res)
}

outdt1x <- rbind(extout("Female",25,2),
                 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))
outdt1x <- as.data.frame(outdt1x)
for(i in 2:9) outdt1x[,i] <- as.numeric(outdt1x[,i])
outdt1x$gender <- factor(outdt1x$gender, levels=unique(outdt1x$gender))
summary(outdt1x)

```

```

##      gender      age      est      lci95      uci95      lci90
## Female:5  Min.   :25  Min.   :-0.052828  Min.   :-0.09244  Min.   :-0.013634  Min.   :-0.08607
## Male   :5  1st Qu.:35  1st Qu.: -0.027854  1st Qu.: -0.04975  1st Qu.: -0.009429  1st Qu.: -0.04553
##          Median :45  Median : -0.016217  Median : -0.03395  Median : 0.006637  Median : -0.03110
##          Mean   :45  Mean   : -0.018163  Mean   : -0.04119  Mean   : 0.004863  Mean   : -0.03749
##          3rd Qu.:55  3rd Qu.: -0.006526  3rd Qu.: -0.02278  3rd Qu.: 0.013895  3rd Qu.: -0.02017
##          Max.   :65  Max.   : 0.008715  Max.   : -0.01585  Max.   : 0.034568  Max.   : -0.01298
##          uci90      se      p      lv
## Min.   :-0.019585  Min.   :0.007107  Min.   :0.001321  Length:10
## 1st Qu.: -0.012287  1st Qu.:0.008871  1st Qu.:0.012454  Class :character
## Median : 0.002760  Median :0.010875  Median :0.156826  Mode  :character
## Mean   : 0.001161  Mean   :0.011748  Mean   :0.266470
## 3rd Qu.: 0.010528  3rd Qu.:0.013936  3rd Qu.:0.475869
## Max.   : 0.030411  Max.   :0.020209  Max.   :0.888705

```

Outcome Model 2

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

```
# require(nnet)
```

```
# s1moz2_10 <- multinom(update(foreignsuff3x ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
```

```
# s1moz2_1A <- multinom(update(foreignsuff3x ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
```

```
# s1moz2_1B <- multinom(update(foreignsuff3x ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
```

```
# s1moz2_1C <- multinom(update(foreignsuff3x ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
```

```
sifcct.mlogit <- dfidx(sifcct[which(sifcct$age - sifcct$lvlen>=23),],
```

```

shape = "wide", choice = "foreignsnuff3x")
# # levels(sifcct.mlogit$id2) <- c("Disagree", "Neither", "Agree")
s1mox2_10 <- mlogit(outmod0.mlogit, data=sifcct.mlogit, reflevel="Disagree")
s1mox2_1A <- mlogit(outmodA.mlogit, data=sifcct.mlogit, reflevel="Disagree")
s1mox2_1B <- mlogit(outmodB.mlogit, data=sifcct.mlogit, reflevel="Disagree")
s1mox2_1C <- mlogit(outmodC.mlogit, data=sifcct.mlogit, reflevel="Disagree")

screenreg(list(s1mox2_10, s1mox2_1A), digits = 4, #single.row = T,
  override.se = list(coeftest(s1mox2_10, vcov=sandwich)[grep(":", names(coef(s1mox2_10))), 2],
    coeftest(s1mox2_10, vcov=sandwich)[grep(":", names(coef(s1mox2_10))), 2],
    coeftest(s1mox2_1A, vcov=sandwich)[grep(":", names(coef(s1mox2_1A))), 2],
    coeftest(s1mox2_1A, vcov=sandwich)[grep(":", names(coef(s1mox2_1A))), 2],
  override.pvalues = list(coeftest(s1mox2_10, vcov=sandwich)[grep(":", names(coef(s1mox2_10))), 2],
    coeftest(s1mox2_10, vcov=sandwich)[grep(":", names(coef(s1mox2_10))), 2],
    coeftest(s1mox2_1A, vcov=sandwich)[grep(":", names(coef(s1mox2_1A))), 2],
    coeftest(s1mox2_1A, vcov=sandwich)[grep(":", names(coef(s1mox2_1A))), 2],
  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: Agree      Base: Neither      ZIP: Agree      ZIP: Neither
## -----
## University education          -0.0154 ***      -0.3494          -0.0065 ***      -0.3375
##                               (0.0563)          (0.0571)          (0.0570)          (0.0579)
## Gender (male)                 -0.3766 ***      -0.5889 ***      -0.3785 ***      -0.5919 **
##                               (0.0607)          (0.0627)          (0.0607)          (0.0628)
## Age (by 10 years, centered at 45) -0.0666 ***      -0.1437 +        -0.0643 ***      -0.1432 +
##                               (0.0350)          (0.0366)          (0.0351)          (0.0367)
## University * Male             -0.1583          0.0201 +        -0.1560          0.0216 +
##                               (0.0870)          (0.0873)          (0.0870)          (0.0874)
## University * Age              0.0621 +        0.0857          0.0584 +        0.0844
##                               (0.0469)          (0.0480)          (0.0469)          (0.0480)
## University * Male * Age       0.0235          -0.0014          0.0262          -0.0024
##                               (0.0679)          (0.0676)          (0.0679)          (0.0676)
## Male * Age                    0.0966          0.0351 *        0.0933          0.0343 +
##                               (0.0477)          (0.0487)          (0.0477)          (0.0487)
## % of Life Residing Locally (zip) -0.0466          0.1499          -0.0701          0.1302
##                               (0.1436)          (0.1383)          (0.1442)          (0.1389)
## DID residence (zip)           -0.1058          0.0173 *
##                               (0.0524)          (0.0511)
## Foreigner % sqrt. (zip)      -0.0553 *        -0.0738
##                               (0.0366)          (0.0355)
## University % by 10% (zip)    0.0151          -0.0143
##                               (0.0236)          (0.0234)
## -----
## AIC                           32956.9671      32956.9671      32956.4506      32956.4506
## Log Likelihood                -16420.4836     -16420.4836     -16414.2253     -16414.2253
## Num. obs.                     15252          15252          15252          15252
## K                             3                3                3                3
## =====

```

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

```
screenreg(list(s1mox2_1B,s1mox2_1C), digits = 4, #single.row = T,
  override.se = list(coeftest(s1mox2_1B,vcov=sandwich)[grep(":",names(coef(s1mox2_1B))),2],
                    coeftest(s1mox2_1B,vcov=sandwich)[grep(":",names(coef(s1mox2_1B))),2],
                    coeftest(s1mox2_1C,vcov=sandwich)[grep(":",names(coef(s1mox2_1C))),2],
                    coeftest(s1mox2_1C,vcov=sandwich)[grep(":",names(coef(s1mox2_1C))),2],
  override.pvalues = list(coeftest(s1mox2_1B,vcov=sandwich)[grep(":",names(coef(s1mox2_1B))),2],
                        coeftest(s1mox2_1B,vcov=sandwich)[grep(":",names(coef(s1mox2_1B))),2],
                        coeftest(s1mox2_1C,vcov=sandwich)[grep(":",names(coef(s1mox2_1C))),2],
                        coeftest(s1mox2_1C,vcov=sandwich)[grep(":",names(coef(s1mox2_1C))),2],
  beside = T,
  omit.coef = "(wave)",stars = c(0.1,0.05,0.01,0.001), symbol = "+",
  custom.coef.map = vnmap,
  custom.model.names = c("Mun.: Agree","Mun.: Neither",
                        "Full: Agree","Full: Neither"))
```

```
##
## =====
##                               Mun.: Agree      Mun.: Neither      Full: Agree      Full: Neither
## -----
## University education          -0.0118 ***      -0.3405          -0.0063 ***      -0.3367
##                               (0.0568)          (0.0577)          (0.0570)          (0.0579)
## Gender (male)                 -0.3769 ***      -0.5903 ***      -0.3770 ***      -0.5905 **
##                               (0.0607)          (0.0628)          (0.0607)          (0.0629)
## Age (by 10 years, centered at 45) -0.0670 ***      -0.1445 +        -0.0655 ***      -0.1440 +
##                               (0.0351)          (0.0367)          (0.0351)          (0.0367)
## University * Male             -0.1587          0.0186 +        -0.1571          0.0201 +
##                               (0.0870)          (0.0874)          (0.0870)          (0.0874)
## University * Age              0.0607 +        0.0851          0.0595 +        0.0850
##                               (0.0469)          (0.0480)          (0.0469)          (0.0480)
## University * Male * Age       0.0240          -0.0016          0.0248          -0.0030
##                               (0.0679)          (0.0676)          (0.0680)          (0.0676)
## Male * Age                    0.0958          0.0356 *        0.0946          0.0354 +
##                               (0.0477)          (0.0487)          (0.0477)          (0.0487)
## % of Life Residing Locally (zip) -0.0493          0.1521          -0.0637          0.1389
##                               (0.1440)          (0.1386)          (0.1444)          (0.1391)
## DID residence (zip)           -0.1606          -0.0330 **
##                               (0.0618)          (0.0605)
## Foreigner % sqrt. (zip)      -0.0594          -0.0788
##                               (0.0519)          (0.0505)
## University % by 10% (zip)     0.0043          -0.0073
##                               (0.0336)          (0.0333)
## DID proportion (mun.)         0.0201          0.1358          0.1757          0.1708
##                               (0.0942)          (0.0925)          (0.1109)          (0.1092)
## Foreigner % sqrt. (mun.)     -0.0690          -0.0727          -0.0092          0.0016
##                               (0.0496)          (0.0487)          (0.0692)          (0.0682)
## University % by 10% (mun.)    0.0032          -0.0420          -0.0000          -0.0333
##                               (0.0357)          (0.0352)          (0.0493)          (0.0485)
## -----
## AIC                           32963.5875      32963.5875      32964.1731      32964.1731
## Log Likelihood                -16417.7937      -16417.7937      -16412.0865      -16412.0865
## Num. obs.                     15252          15252          15252          15252
## K                             3                3                3                3
## =====
```

```

## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
extout <- function(gender,ageset,sub=1) {

  if (gender=="Male") sifcct$gender <- sifcct$female
  if (gender=="Female") sifcct$gender <- sifcct$male
  sifcct$ageset <- (sifcct$age - ageset)/10

  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/10) +
    #                   as.factor(wave), data=sifcct[which(sifcct$age - sifcct$lvlen<=15),],
    #                   Hess = TRUE)
    sifcct.mlogit.tmp <- dfidx(sifcct[which(sifcct$age - sifcct$lvlen<=15),],
                             shape = "wide", choice = "foreignsuff3x")
    # levels(sifcct.mlogit.tmp$id2) <- c("Disagree", "Neither", "Agree")
    modset <- mlogit(foreignsuff3x ~ 0 | edu2 * gender * ageset + lvpr + zip_did + sqrt(c10_sreg_fper) +
                    I(c10_sreg_edu_ugsP/10) + didper + sqrt(c10_mun_fper) + I(c10_mun_edu_ugsP/10) +
                    as.factor(wave), data=sifcct.mlogit.tmp, reflevel = "Disagree")
    subname = "Stayed"
  } else {
    # modset <- multinom(foreignsuff3x ~ edu2 * gender * ageset + lvpr + as.factor(wave),
    #                   data=sifcct[which(sifcct$age - sifcct$lvlen>=23),],
    #                   Hess = TRUE)
    sifcct.mlogit.tmp <- dfidx(sifcct[which(sifcct$age - sifcct$lvlen>=23),],
                             shape = "wide", choice = "foreignsuff3x")
    # levels(sifcct.mlogit.tmp$id2) <- c("Disagree", "Neither", "Agree")
    modset <- mlogit(foreignsuff3x ~ 0 | edu2 * gender * ageset + lvpr + as.factor(wave),
                    data=sifcct.mlogit.tmp, reflevel = "Disagree")
    subname = "Moved"
  }

  # modres <- extract(modset)

  # 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:
  #         modres@coef[grep("^Agree: edu2$",modres@coef.names)] + qnorm(0.975)*modres@se[grep("^Agree:
  #         modres@coef[grep("^Agree: edu2$",modres@coef.names)] - qnorm(0.95)*modres@se[grep("^Agree:
  #         modres@coef[grep("^Agree: edu2$",modres@coef.names)] + qnorm(0.95)*modres@se[grep("^Agree:
  #         modres@se[grep("^Agree: edu2$",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")

  return(res)
}

```



```

outdt1xm <- rbind(extout("Female",25,2),
  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))
outdt1xm <- as.data.frame(outdt1xm)
for(i in 2:9) outdt1xm[,i] <- as.numeric(outdt1xm[,i])
outdt1xm$gender <- factor(outdt1xm$gender, levels=unique(outdt1xm$gender))
summary(outdt1xm)

```

```

##      gender      age      est      lci95      uci95      lci90
## Female:5  Min.   :25  Min.   :-0.344897  Min.   :-0.62524  Min.   :-0.06456  Min.   :-0.58016
## Male   :5  1st Qu.:35  1st Qu.: -0.165143  1st Qu.: -0.35545  1st Qu.: -0.02789  1st Qu.: -0.32211
##          Median :45  Median : -0.082760  Median : -0.21581  Median : 0.08655  Median : -0.19441
##          Mean   :45  Mean   : -0.094508  Mean   : -0.26585  Mean   : 0.07683  Mean   : -0.23830
##          3rd Qu.:55  3rd Qu.: -0.005643  3rd Qu.: -0.13522  3rd Qu.: 0.13969  3rd Qu.: -0.11543
##          Max.   :65  Max.   : 0.108890  Max.   : -0.08799  Max.   : 0.31257  Max.   : -0.06204
##      uci90      se      p      lv
## Min.   :-0.10963  Min.   :0.05569  Min.   :0.008546  Length:10
## 1st Qu.: -0.04788  1st Qu.:0.06671  1st Qu.:0.040427  Class :character
## Median : 0.05518  Median :0.07994  Median :0.267730  Mode  :character
## Mean   : 0.04928  Mean   :0.08741  Mean   :0.327735
## 3rd Qu.: 0.11633  3rd Qu.:0.10311  3rd Qu.:0.455550
## Max.   : 0.27982  Max.   :0.14302  Max.   :0.975988

```

Mediator Models

Knowledge

```

s1mmx01_10 <- lm(update(knowledge ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx01_1A <- lm(update(knowledge ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx01_1B <- lm(update(knowledge ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx01_1C <- lm(update(knowledge ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(s1mmx01_10,s1mmx01_1A,s1mmx01_1B,s1mmx01_1C), digits = 4, #single.row = T,
  override.se = list(coefestest(s1mmx01_10,vcov.=vcovHC(s1mmx01_10))[2],
    coefestest(s1mmx01_1A,vcov.=vcovHC(s1mmx01_1A))[2],
    coefestest(s1mmx01_1B,vcov.=vcovHC(s1mmx01_1B))[2],
    coefestest(s1mmx01_1C,vcov.=vcovHC(s1mmx01_1C))[2]),
  override.pvalues = list(coefestest(s1mmx01_10,vcov.=vcovHC(s1mmx01_10))[4],
    coefestest(s1mmx01_1A,vcov.=vcovHC(s1mmx01_1A))[4],
    coefestest(s1mmx01_1B,vcov.=vcovHC(s1mmx01_1B))[4],
    coefestest(s1mmx01_1C,vcov.=vcovHC(s1mmx01_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          0.1555 ***      0.1449 ***      0.1476 ***      0.1447 ***
##                               (0.0067)      (0.0067)      (0.0067)      (0.0067)
## Gender (male)                 0.1737 ***      0.1776 ***      0.1764 ***      0.1775 ***
##                               (0.0075)      (0.0074)      (0.0075)      (0.0074)
## Age (by 10 years, centered at 45) 0.0725 ***      0.0713 ***      0.0716 ***      0.0713 ***
##                               (0.0041)      (0.0041)      (0.0041)      (0.0041)
## University * Male              0.0017          0.0002          0.0013          0.0005
##                               (0.0103)      (0.0103)      (0.0103)      (0.0103)
## University * Age              -0.0180 **      -0.0182 **      -0.0176 **      -0.0181 **
##                               (0.0056)      (0.0055)      (0.0056)      (0.0055)
## University * Male * Age        -0.0184 *      -0.0182 *      -0.0191 *      -0.0184 *
##                               (0.0078)      (0.0077)      (0.0077)      (0.0077)
## Male * Age                    0.0151 **      0.0153 **      0.0154 **      0.0153 **
##                               (0.0056)      (0.0055)      (0.0056)      (0.0055)
## % of Life Residing Locally (zip) -0.0509 **      -0.0370 *      -0.0447 **      -0.0386 *
##                               (0.0161)      (0.0162)      (0.0161)      (0.0162)
## DID residence (zip)            0.0032          0.0069
##                               (0.0060)      (0.0070)
## Foreigner % sqrt. (zip)       0.0120 **      0.0121 *
##                               (0.0042)      (0.0059)
## University % by 10% (zip)     0.0226 ***      0.0161 ***
##                               (0.0027)      (0.0039)
## DID proportion (mun.)         -0.0106      -0.0166
##                               (0.0109)      (0.0127)
## Foreigner % sqrt. (mun.)      0.0082      -0.0025
##                               (0.0056)      (0.0079)
## University % by 10% (mun.)    0.0307 ***      0.0143 *
##                               (0.0041)      (0.0057)
## -----
## R^2                          0.2213          0.2266          0.2256          0.2269
## Adj. R^2                     0.2199          0.2250          0.2240          0.2252
## Num. obs.                    15252          15252          15252          15252
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Ideology

```
s1mmx02_10 <- lm(update(ideology ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx02_1A <- lm(update(ideology ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx02_1B <- lm(update(ideology ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx02_1C <- lm(update(ideology ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(s1mmx02_10,s1mmx02_1A,s1mmx02_1B,s1mmx02_1C), digits = 4, #single.row = T,
  override.se = list(coeftest(s1mmx02_10,vcov.=vcovHC(s1mmx02_10))[,2],
    coeftest(s1mmx02_1A,vcov.=vcovHC(s1mmx02_1A))[,2],
    coeftest(s1mmx02_1B,vcov.=vcovHC(s1mmx02_1B))[,2],
    coeftest(s1mmx02_1C,vcov.=vcovHC(s1mmx02_1C))[,2]),
  override.pvalues = list(coeftest(s1mmx02_10,vcov.=vcovHC(s1mmx02_10))[,4],
    coeftest(s1mmx02_1A,vcov.=vcovHC(s1mmx02_1A))[,4],
    coeftest(s1mmx02_1B,vcov.=vcovHC(s1mmx02_1B))[,4],
    coeftest(s1mmx02_1C,vcov.=vcovHC(s1mmx02_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          -0.0142 **          -0.0135 **          -0.0139 **          -0.0137 **
##                               (0.0044)            (0.0044)            (0.0044)            (0.0044)
## Gender (male)                 -0.0384 ***          -0.0385 ***          -0.0386 ***          -0.0388 ***
##                               (0.0055)            (0.0055)            (0.0055)            (0.0055)
## Age (by 10 years, centered at 45) -0.0103 ***          -0.0104 ***          -0.0102 ***          -0.0103 ***
##                               (0.0029)            (0.0029)            (0.0029)            (0.0029)
## University * Male              0.0258 ***           0.0258 ***           0.0259 ***           0.0260 ***
##                               (0.0077)            (0.0077)            (0.0077)            (0.0077)
## University * Age              -0.0037             -0.0035             -0.0038             -0.0036
##                               (0.0038)            (0.0038)            (0.0038)            (0.0038)
## University * Male * Age        -0.0068             -0.0071             -0.0066             -0.0071
##                               (0.0060)            (0.0060)            (0.0060)            (0.0060)
## Male * Age                    0.0159 ***           0.0160 ***           0.0157 ***           0.0159 ***
##                               (0.0042)            (0.0042)            (0.0042)            (0.0042)
## % of Life Residing Locally (zip) 0.0259 *             0.0254 *             0.0248 *             0.0241 +
##                               (0.0125)            (0.0126)            (0.0125)            (0.0126)
## DID residence (zip)            0.0103 *             0.0176 **
##                               (0.0045)            (0.0054)
## Foreigner % sqrt. (zip)        -0.0046             -0.0042
##                               (0.0032)            (0.0044)
## University % by 10% (zip)      -0.0027             -0.0041
##                               (0.0020)            (0.0029)
## DID proportion (mun.)          -0.0085             -0.0252 **
##                               (0.0081)            (0.0096)
## Foreigner % sqrt. (mun.)      -0.0031             0.0003
##                               (0.0043)            (0.0060)
## University % by 10% (mun.)     0.0014             0.0056
##                               (0.0031)            (0.0043)
## -----
## R^2                          0.0083              0.0087              0.0084              0.0092
## Adj. R^2                     0.0065              0.0067              0.0064              0.0070
## Num. obs.                    15252              15252              15252              15252
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

LDP - DPJ FT

```
s1mmx03_10 <- lm(update(ldpdjft ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx03_1A <- lm(update(ldpdjft ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx03_1B <- lm(update(ldpdjft ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx03_1C <- lm(update(ldpdjft ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(s1mmx03_10,s1mmx03_1A,s1mmx03_1B,s1mmx03_1C), digits = 4, #single.row = T,
             override.se = list(coeftest(s1mmx03_10,vcov.=vcovHC(s1mmx03_10))[,2],
                                coeftest(s1mmx03_1A,vcov.=vcovHC(s1mmx03_1A))[,2],
                                coeftest(s1mmx03_1B,vcov.=vcovHC(s1mmx03_1B))[,2],
                                coeftest(s1mmx03_1C,vcov.=vcovHC(s1mmx03_1C))[,2]),
             override.pvalues = list(coeftest(s1mmx03_10,vcov.=vcovHC(s1mmx03_10))[,4],
```

```

coeftest(s1mmx03_1A,vcov.=vcovHC(s1mmx03_1A))[,4],
coeftest(s1mmx03_1B,vcov.=vcovHC(s1mmx03_1B))[,4],
coeftest(s1mmx03_1C,vcov.=vcovHC(s1mmx03_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          -0.0108 **          -0.0116 ***          -0.0114 ***          -0.0117 ***
##                               (0.0034)            (0.0035)            (0.0035)            (0.0035)
## Gender (male)                  0.0187 ***          0.0189 ***          0.0189 ***          0.0189 ***
##                               (0.0039)            (0.0040)            (0.0040)            (0.0040)
## Age (by 10 years, centered at 45) 0.0047 *            0.0046 *            0.0047 *            0.0046 *
##                               (0.0022)            (0.0022)            (0.0022)            (0.0022)
## University * Male              0.0096 +            0.0095 +            0.0096 +            0.0096 +
##                               (0.0056)            (0.0056)            (0.0056)            (0.0056)
## University * Age              -0.0142 ***         -0.0140 ***         -0.0141 ***         -0.0140 ***
##                               (0.0030)            (0.0030)            (0.0030)            (0.0030)
## University * Male * Age        0.0053              0.0053              0.0053              0.0053
##                               (0.0045)            (0.0045)            (0.0045)            (0.0045)
## Male * Age                    -0.0103 **          -0.0102 **          -0.0103 **          -0.0102 **
##                               (0.0032)            (0.0032)            (0.0032)            (0.0032)
## % of Life Residing Locally (zip) -0.0055             -0.0039             -0.0051             -0.0043
##                               (0.0095)            (0.0096)            (0.0095)            (0.0096)
## DID residence (zip)            0.0033              0.0033              0.0033              0.0054
##                               (0.0035)            (0.0035)            (0.0035)            (0.0041)
## Foreigner % sqrt. (zip)        0.0040 +            0.0040 +            0.0040 +            0.0036
##                               (0.0024)            (0.0024)            (0.0024)            (0.0034)
## University % by 10% (zip)      0.0002              0.0002              0.0002              0.0002
##                               (0.0016)            (0.0016)            (0.0016)            (0.0022)
## DID proportion (mun.)          -0.0017             -0.0017             -0.0017             -0.0070
##                               (0.0062)            (0.0062)            (0.0062)            (0.0073)
## Foreigner % sqrt. (mun.)       0.0047              0.0047              0.0047              0.0013
##                               (0.0032)            (0.0032)            (0.0032)            (0.0045)
## University % by 10% (mun.)     0.0011              0.0011              0.0011              0.0009
##                               (0.0023)            (0.0023)            (0.0023)            (0.0032)
## -----
## R^2                           0.1193              0.1197              0.1195              0.1197
## Adj. R^2                       0.1177              0.1179              0.1177              0.1177
## Num. obs.                      15252              15252              15252              15252
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1

```

Favorability of South Korea

```

s1mmx04_10 <- lm(update(familiarityFT_KOR ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s1mmx04_1A <- lm(update(familiarityFT_KOR ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s1mmx04_1B <- lm(update(familiarityFT_KOR ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s1mmx04_1C <- lm(update(familiarityFT_KOR ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=
screenreg(list(s1mmx04_10,s1mmx04_1A,s1mmx04_1B,s1mmx04_1C), digits = 4, #single.row = T,

```

```

override.se = list(coefest(s1mmx04_10,vcov.=vcovHC(s1mmx04_10))[,2],
  coefest(s1mmx04_1A,vcov.=vcovHC(s1mmx04_1A))[,2],
  coefest(s1mmx04_1B,vcov.=vcovHC(s1mmx04_1B))[,2],
  coefest(s1mmx04_1C,vcov.=vcovHC(s1mmx04_1C))[,2]),
override.pvalues = list(coefest(s1mmx04_10,vcov.=vcovHC(s1mmx04_10))[,4],
  coefest(s1mmx04_1A,vcov.=vcovHC(s1mmx04_1A))[,4],
  coefest(s1mmx04_1B,vcov.=vcovHC(s1mmx04_1B))[,4],
  coefest(s1mmx04_1C,vcov.=vcovHC(s1mmx04_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          0.0096 +          0.0103 +          0.0099 +          0.0103 +
##                               (0.0057)          (0.0057)          (0.0057)          (0.0057)
## Gender (male)                 -0.0589 ***        -0.0591 ***        -0.0591 ***        -0.0591 ***
##                               (0.0062)          (0.0062)          (0.0062)          (0.0062)
## Age (by 10 years, centered at 45) -0.0003          -0.0001          -0.0002          -0.0001
##                               (0.0035)          (0.0035)          (0.0035)          (0.0035)
## University * Male             -0.0011          -0.0009          -0.0010          -0.0008
##                               (0.0087)          (0.0087)          (0.0087)          (0.0087)
## University * Age              -0.0005          -0.0007          -0.0006          -0.0006
##                               (0.0047)          (0.0047)          (0.0047)          (0.0047)
## University * Male * Age       0.0061           0.0062           0.0062           0.0062
##                               (0.0067)          (0.0067)          (0.0067)          (0.0067)
## Male * Age                    0.0266 ***        0.0264 ***        0.0265 ***        0.0264 ***
##                               (0.0047)          (0.0047)          (0.0047)          (0.0047)
## % of Life Residing Locally (zip) -0.0230 +        -0.0244 +        -0.0238 +        -0.0247 +
##                               (0.0137)          (0.0137)          (0.0137)          (0.0137)
## DID residence (zip)           -0.0069           -0.0069           -0.0069           -0.0070
##                               (0.0051)          (0.0051)          (0.0051)          (0.0060)
## Foreigner % sqrt. (zip)       -0.0010           -0.0010           -0.0010           -0.0022
##                               (0.0035)          (0.0035)          (0.0035)          (0.0049)
## University % by 10% (zip)     0.0000           0.0000           0.0000           -0.0010
##                               (0.0023)          (0.0023)          (0.0023)          (0.0033)
## DID proportion (mun.)         -0.0070           -0.0070           -0.0070           -0.0004
##                               (0.0092)          (0.0092)          (0.0092)          (0.0109)
## Foreigner % sqrt. (mun.)      -0.0003           -0.0003           -0.0003           0.0018
##                               (0.0048)          (0.0048)          (0.0048)          (0.0066)
## University % by 10% (mun.)    0.0008           0.0008           0.0008           0.0018
##                               (0.0035)          (0.0035)          (0.0035)          (0.0049)
## -----
## R^2                          0.0698           0.0699           0.0698           0.0699
## Adj. R^2                     0.0681           0.0680           0.0679           0.0679
## Num. obs.                    15252           15252           15252           15252
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1

```

Favorability of China

```
s1mmx05_10 <- lm(update(familiarityFT_CHN ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=0),],
s1mmx05_1A <- lm(update(familiarityFT_CHN ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=0),],
s1mmx05_1B <- lm(update(familiarityFT_CHN ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=0),],
s1mmx05_1C <- lm(update(familiarityFT_CHN ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=0),],
screenreg(list(s1mmx05_10,s1mmx05_1A,s1mmx05_1B,s1mmx05_1C), digits = 4, #single.row = T,
  override.se = list(coefest(s1mmx05_10,vcov.=vcovHC(s1mmx05_10))[2],
    coefest(s1mmx05_1A,vcov.=vcovHC(s1mmx05_1A))[2],
    coefest(s1mmx05_1B,vcov.=vcovHC(s1mmx05_1B))[2],
    coefest(s1mmx05_1C,vcov.=vcovHC(s1mmx05_1C))[2]),
  override.pvalues = list(coefest(s1mmx05_10,vcov.=vcovHC(s1mmx05_10))[4],
    coefest(s1mmx05_1A,vcov.=vcovHC(s1mmx05_1A))[4],
    coefest(s1mmx05_1B,vcov.=vcovHC(s1mmx05_1B))[4],
    coefest(s1mmx05_1C,vcov.=vcovHC(s1mmx05_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          0.0165 ***      0.0163 ***      0.0159 **      0.0162 ***
##                               (0.0048)      (0.0049)      (0.0049)      (0.0049)
## Gender (male)                 -0.0181 ***    -0.0180 ***    -0.0179 ***    -0.0181 ***
##                               (0.0053)      (0.0053)      (0.0053)      (0.0053)
## Age (by 10 years, centered at 45) -0.0002      -0.0003      -0.0003      -0.0003
##                               (0.0030)      (0.0030)      (0.0030)      (0.0030)
## University * Male              0.0007          0.0006          0.0007          0.0008
##                               (0.0075)      (0.0075)      (0.0075)      (0.0075)
## University * Age              -0.0025          -0.0025          -0.0025          -0.0024
##                               (0.0041)      (0.0041)      (0.0041)      (0.0041)
## University * Male * Age        0.0035          0.0035          0.0035          0.0034
##                               (0.0058)      (0.0058)      (0.0058)      (0.0058)
## Male * Age                    0.0073 +        0.0074 +        0.0073 +        0.0074 +
##                               (0.0042)      (0.0042)      (0.0042)      (0.0042)
## % of Life Residing Locally (zip) -0.0238 *      -0.0234 *      -0.0236 *      -0.0242 *
##                               (0.0118)      (0.0119)      (0.0119)      (0.0119)
## DID residence (zip)                                0.0024          0.0046
##                               (0.0044)      (0.0052)
## Foreigner % sqrt. (zip)                                0.0009          0.0005
##                               (0.0031)      (0.0043)
## University % by 10% (zip)                                -0.0003          -0.0032
##                               (0.0020)      (0.0028)
## DID proportion (mun.)                                -0.0046          -0.0092
##                               (0.0079)      (0.0093)
## Foreigner % sqrt. (mun.)                                0.0008          0.0000
##                               (0.0042)      (0.0057)
## University % by 10% (mun.)                                0.0033          0.0065
##                               (0.0030)      (0.0041)
## -----
## R^2                          0.0259          0.0259          0.0260          0.0261
## Adj. R^2                     0.0241          0.0240          0.0240          0.0239
```

```
## Num. obs.                15252                15252                15252                15252
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Favorability of USA

```
s1mmx06_10 <- lm(update(familiarityFT_USA ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s1mmx06_1A <- lm(update(familiarityFT_USA ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s1mmx06_1B <- lm(update(familiarityFT_USA ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=
s1mmx06_1C <- lm(update(familiarityFT_USA ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=
screenreg(list(s1mmx06_10,s1mmx06_1A,s1mmx06_1B,s1mmx06_1C), digits = 4, #single.row = T,
  override.se = list(coeftest(s1mmx06_10,vcov.=vcovHC(s1mmx06_10))[,2],
                    coeftest(s1mmx06_1A,vcov.=vcovHC(s1mmx06_1A))[,2],
                    coeftest(s1mmx06_1B,vcov.=vcovHC(s1mmx06_1B))[,2],
                    coeftest(s1mmx06_1C,vcov.=vcovHC(s1mmx06_1C))[,2]),
  override.pvalues = list(coeftest(s1mmx06_10,vcov.=vcovHC(s1mmx06_10))[,4],
                        coeftest(s1mmx06_1A,vcov.=vcovHC(s1mmx06_1A))[,4],
                        coeftest(s1mmx06_1B,vcov.=vcovHC(s1mmx06_1B))[,4],
                        coeftest(s1mmx06_1C,vcov.=vcovHC(s1mmx06_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                0.0108 *                0.0068                0.0083 +                0.0069
##                                (0.0046)                (0.0047)                (0.0047)                (0.0047)
## Gender (male)                0.0040                0.0057                0.0050                0.0057
##                                (0.0056)                (0.0056)                (0.0056)                (0.0056)
## Age (by 10 years, centered at 45)    0.0104 ***                0.0100 ***                0.0100 ***                0.0100 ***
##                                (0.0030)                (0.0030)                (0.0030)                (0.0030)
## University * Male                0.0186 *                0.0181 *                0.0184 *                0.0180 *
##                                (0.0077)                (0.0077)                (0.0077)                (0.0077)
## University * Age                -0.0063                -0.0066 +                -0.0062                -0.0066 +
##                                (0.0039)                (0.0039)                (0.0039)                (0.0039)
## University * Male * Age                0.0036                0.0038                0.0034                0.0038
##                                (0.0058)                (0.0058)                (0.0058)                (0.0058)
## Male * Age                0.0189 ***                0.0188 ***                0.0189 ***                0.0188 ***
##                                (0.0042)                (0.0042)                (0.0042)                (0.0042)
## % of Life Residing Locally (zip)    -0.0254 *                -0.0210 +                -0.0234 +                -0.0207 +
##                                (0.0122)                (0.0122)                (0.0122)                (0.0122)
## DID residence (zip)                -0.0032                -0.0032                -0.0032                -0.0044
##                                (0.0046)                (0.0046)                (0.0046)                (0.0053)
## Foreigner % sqrt. (zip)                0.0004                0.0004                0.0004                0.0019
##                                (0.0031)                (0.0031)                (0.0031)                (0.0044)
## University % by 10% (zip)                0.0104 ***                0.0104 ***                0.0101 ***
##                                (0.0020)                (0.0020)                (0.0020)                (0.0029)
## DID proportion (mun.)                -0.0008                -0.0008                -0.0008                0.0040
##                                (0.0082)                (0.0082)                (0.0082)                (0.0095)
## Foreigner % sqrt. (mun.)                -0.0021                -0.0021                -0.0021                -0.0032
##                                (0.0043)                (0.0043)                (0.0043)                (0.0060)
## University % by 10% (mun.)                0.0105 ***                0.0105 ***                0.0105 ***                0.0003
```

```
##
## -----
## R^2 0.0323 0.0341 0.0333 0.0341
## Adj. R^2 0.0305 0.0321 0.0313 0.0319
## Num. obs. 15252 15252 15252 15252
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Income

```
s1mmx07_10 <- lm(update(income ~ ., basemod0), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx07_1A <- lm(update(income ~ ., basemodA), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx07_1B <- lm(update(income ~ ., basemodB), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
s1mmx07_1C <- lm(update(income ~ ., basemodC), data=sifcct[which(sifcct$age - sifcct$lvlen>=23),])
screenreg(list(s1mmx07_10,s1mmx07_1A,s1mmx07_1B,s1mmx07_1C), digits = 4, #single.row = T,
  override.se = list(coefestest(s1mmx07_10,vcov.=vcovHC(s1mmx07_10))[,2],
    coefestest(s1mmx07_1A,vcov.=vcovHC(s1mmx07_1A))[,2],
    coefestest(s1mmx07_1B,vcov.=vcovHC(s1mmx07_1B))[,2],
    coefestest(s1mmx07_1C,vcov.=vcovHC(s1mmx07_1C))[,2]),
  override.pvalues = list(coefestest(s1mmx07_10,vcov.=vcovHC(s1mmx07_10))[,4],
    coefestest(s1mmx07_1A,vcov.=vcovHC(s1mmx07_1A))[,4],
    coefestest(s1mmx07_1B,vcov.=vcovHC(s1mmx07_1B))[,4],
    coefestest(s1mmx07_1C,vcov.=vcovHC(s1mmx07_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 0.1103 *** 0.0886 *** 0.0946 *** 0.0881 ***
## (0.0060) (0.0060) (0.0060) (0.0060)
## Gender (male) -0.0342 *** -0.0258 *** -0.0289 *** -0.0257 ***
## (0.0063) (0.0063) (0.0063) (0.0063)
## Age (by 10 years, centered at 45) 0.0145 *** 0.0123 *** 0.0128 *** 0.0124 ***
## (0.0037) (0.0037) (0.0037) (0.0037)
## University * Male 0.0259 ** 0.0229 * 0.0251 ** 0.0234 **
## (0.0091) (0.0090) (0.0091) (0.0090)
## University * Age 0.0081 0.0071 0.0092 + 0.0076
## (0.0051) (0.0051) (0.0051) (0.0051)
## University * Male * Age -0.0120 + -0.0111 -0.0135 + -0.0119 +
## (0.0072) (0.0072) (0.0072) (0.0072)
## Male * Age -0.0251 *** -0.0250 *** -0.0243 *** -0.0248 ***
## (0.0048) (0.0048) (0.0048) (0.0048)
## % of Life Residing Locally (zip) 0.1072 *** 0.1340 *** 0.1199 *** 0.1312 ***
## (0.0162) (0.0159) (0.0160) (0.0159)
## DID residence (zip) -0.0062 -0.0039
## (0.0054) (0.0064)
## Foreigner % sqrt. (zip) 0.0187 *** -0.0009
## (0.0038) (0.0054)
## University % by 10% (zip) 0.0506 *** 0.0446 ***
## (0.0025) (0.0036)
## DID proportion (mun.) -0.0187 + -0.0114
```



```
## (0.0099) (0.0116)
## Foreigner % sqrt. (mun.) 0.0316 *** 0.0351 ***
## (0.0054) (0.0074)
## University % by 10% (mun.) 0.0552 *** 0.0105 +
## (0.0039) (0.0053)
## -----
## R^2 0.0638 0.0933 0.0855 0.0950
## Adj. R^2 0.0621 0.0915 0.0836 0.0929
## Num. obs. 15252 15252 15252 15252
## =====
## *** p < 0.001; ** p < 0.01; * p < 0.05; + p < 0.1
```

Organizing Outcomes

OLS

```
outdt0x$data <- "Unmatched"
outdt1x$data <- "Matched without \nDistance Adj."

visdtx <- rbind(outdt0x,outdt1x)

visdtx$data <- factor(visdtx$data, levels = c("Unmatched",
                                             "Matched without \nDistance Adj.))
visdtx$pstar <- factor(ifelse(visdtx$p>=.1,"n.s.",ifelse(visdtx$p>=.05,"p<.1","p<.05")),
                      levels = c("p<.05","p<.1","n.s.))

saveRDS(visdtx, paste0(projdir, "/out/visdtx.rds"))
```

Multinomial Logit

```
outdt0xm$data <- "Unmatched"
outdt1xm$data <- "Matched without \nDistance Adj."

visdtxm <- rbind(outdt0xm,outdt1xm)

visdtxm$data <- factor(visdtxm$data, levels = c("Unmatched",
                                             "Matched without \nDistance Adj.))
visdtxm$pstar <- factor(ifelse(visdtxm$p>=.1,"n.s.",ifelse(visdtxm$p>=.05,"p<.1","p<.05")),
                      levels = c("p<.05","p<.1","n.s.))

saveRDS(visdtxm, paste0(projdir, "/out/visdtxm.rds"))
```

Combining OLS and Multinomial Logit

```
visdtx$method = "OLS"
visdtxm$method = "Multinomial Logit\nAgree vs. Disagree"
visdtxall <- rbind(visdtx,visdtxm)
visdtxall$method <- factor(visdtxall$method, levels = unique(visdtxall$method))
colnames(visdtxall)
```

```
## [1] "gender" "age" "est" "lci95" "uci95" "lci90" "uci90" "se" "p" "lv" "data"
## [13] "method"
```


Including Mail

```
visdtx_mail_ols <- readRDS(paste0(projdir, "/out/visdtx_mail_ols.rds"))
visdtx_mail_ols$method <- "OLS"
visdtx_mail_multinom <- readRDS(paste0(projdir, "/out/visdtx_mail_multinom.rds"))
visdtx_mail_multinom$method <- "Multinomial Logit\nAgree vs. Disagree"
visdtx_mail <- rbind(visdtx_mail_ols, visdtx_mail_multinom)
visdtx_mail$lci95 <- NA
visdtx_mail$uci95 <- NA
visdtx_mail$lci90 <- NA
visdtx_mail$uci90 <- NA
colnames(visdtx_mail)
```

```
## [1] "gender" "age" "est" "lci95" "uci95" "lci90" "uci90" "se" "p" "lv" "data"
## [13] "method"
```

```
visdtxall <- rbind(visdtxall, visdtx_mail)
visdtxall$data <- factor(visdtxall$data, levels = unique(visdtxall$data))
table(visdtxall$data)
```

```
##
##               Unmatched Matched without \nDistance Adj.           Mail-in
##                20                20                20
```

```
saveRDS(visdtxall, paste0(projdir, "/out/visdtxall.rds"))
```

Save Image

```
save.image(file=paste0(projdir, "/out/heavy/analysis_2x_matched_v5.RData"))
```