> setwd('C:/Users/guanz/Desktop/JIW2/Week9')

> exitdata <- read.csv('Data/MarketExitAll\_filtered.csv')

>

> #exiting market vs. loss in previous two years

> exitfit <- glm(ExitedMarketIn2016 ~ IndPremiumMinusCostsPMM\_2014 + IndPremiumMinusCostsPMM\_2015, data=exitdata, family="binomial")

> summary(exitfit)

Call:

glm(formula = ExitedMarketIn2016 ~ IndPremiumMinusCostsPMM\_2014 +

IndPremiumMinusCostsPMM\_2015, family = "binomial", data = exitdata)

Deviance Residuals:

Min 1Q Median 3Q Max

-1.0701 -0.7216 -0.6847 -0.6115 1.9368

Coefficients:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -1.310881 0.135862 -9.649 <2e-16 \*\*\*

IndPremiumMinusCostsPMM\_2014 -0.002277 0.001175 -1.938 0.0527 .

IndPremiumMinusCostsPMM\_2015 0.000547 0.001041 0.525 0.5993

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 407.31 on 376 degrees of freedom

Residual deviance: 402.09 on 374 degrees of freedom

(1 observation deleted due to missingness)

AIC: 408.09

Number of Fisher Scoring iterations: 4

> coefficients(exitfit)

(Intercept) IndPremiumMinusCostsPMM\_2014 IndPremiumMinusCostsPMM\_2015

-1.3108808544 -0.0022768793 0.0005469928

>

> #introduce transfers

> exitfit2 <- glm(ExitedMarketIn2016 ~ IndPremiumMinusCostsPMM\_2014 + IndPremiumMinusCostsPMM\_2015

+ + IndRTPMM\_2014 + IndRTPMM\_2015, data=exitdata, family="binomial")

> summary(exitfit2)

Call:

glm(formula = ExitedMarketIn2016 ~ IndPremiumMinusCostsPMM\_2014 +

IndPremiumMinusCostsPMM\_2015 + IndRTPMM\_2014 + IndRTPMM\_2015,

family = "binomial", data = exitdata)

Deviance Residuals:

Min 1Q Median 3Q Max

-1.2665 -0.7318 -0.6697 -0.5772 1.9688

Coefficients:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -1.335e+00 1.383e-01 -9.653 <2e-16 \*\*\*

IndPremiumMinusCostsPMM\_2014 -3.314e-03 1.459e-03 -2.272 0.0231 \*

IndPremiumMinusCostsPMM\_2015 -9.334e-06 1.322e-03 -0.007 0.9944

IndRTPMM\_2014 -4.063e-03 3.107e-03 -1.308 0.1910

IndRTPMM\_2015 -4.158e-04 2.506e-03 -0.166 0.8682

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 407.31 on 376 degrees of freedom

Residual deviance: 398.68 on 372 degrees of freedom

(1 observation deleted due to missingness)

AIC: 408.68

Number of Fisher Scoring iterations: 4

> coefficients(exitfit2)

(Intercept) IndPremiumMinusCostsPMM\_2014 IndPremiumMinusCostsPMM\_2015 IndRTPMM\_2014

-1.334911e+00 -3.313991e-03 -9.333793e-06 -4.062589e-03

IndRTPMM\_2015

-4.157726e-04

>

> #only transfers

> exitfit3 <- glm(ExitedMarketIn2016 ~ IndRTPMM\_2014 + IndRTPMM\_2015, data=exitdata, family="binomial")

> summary(exitfit3)

Call:

glm(formula = ExitedMarketIn2016 ~ IndRTPMM\_2014 + IndRTPMM\_2015,

family = "binomial", data = exitdata)

Deviance Residuals:

Min 1Q Median 3Q Max

-0.7944 -0.7288 -0.7248 -0.7113 1.7307

Coefficients:

Estimate Std. Error z value Pr(>|z|)

(Intercept) -1.1965319 0.1251814 -9.558 <2e-16 \*\*\*

IndRTPMM\_2014 0.0006199 0.0024987 0.248 0.804

IndRTPMM\_2015 -0.0004938 0.0019847 -0.249 0.804

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

(Dispersion parameter for binomial family taken to be 1)

Null deviance: 410.24 on 377 degrees of freedom

Residual deviance: 410.17 on 375 degrees of freedom

AIC: 416.17

Number of Fisher Scoring iterations: 4

> coefficients(exitfit3)

(Intercept) IndRTPMM\_2014 IndRTPMM\_2015

-1.1965318817 0.0006198711 -0.0004938039