Applied Metrics Empirical P-Set 2: Fall 2023

2023-11-29

Question 1 - Estimate the propensity score by a probit regression

```r
# Clear all
rm(list = ls())

# load and require packages
pacman::p_load(foreign, tidyverse, here, randomForest)

# Load data
data <- read.csv(here("data/anya_cleaned.csv"))

# Fit probit
x <- c("I(racem)", "I(agem)", "agemomfirst", "I(sexk)") # race, current age, agemomfirst, sex first chi

probit_model <- glm(d ~ I(racem) + I(agem) + agemomfirst + I(sexk) + z,
                    data = data,
                    family = binomial(link = "probit"))

# Predict propensity scores
data$prop_score <- predict(probit_model, type = "response")

data$prop_score
```

```
##     [1] 0.1632899964 0.0883410935 0.1919371722 0.1056630859 0.2484029218
##     [6] 0.0884394147 0.1714235174 0.0516486410 0.0451577443 0.3358804275
##    [11] 0.0812329867 0.1317721065 0.1090373735 0.8429276435 0.2645425133
##    [16] 0.0826342771 0.6480802028 0.0129369292 0.1270817499 0.1713003856
##    [21] 0.0478353105 0.0474406013 0.6242956874 0.0869846920 0.1022554504
##    [26] 0.6136722890 0.2385739418 0.6799408498 0.2907674029 0.3611643099
##    [31] 0.3889282700 0.1448747464 0.0256572946 0.7897522949 0.1736325599
##    [36] 0.0990353518 0.1831620236 0.7040370161 0.2232844604 0.4751362033
##    [41] 0.4876381576 0.4243628609 0.3308620968 0.5277077976 0.3161390293
##    [46] 0.2512625705 0.1490752233 0.3179748923 0.3394417393 0.5461384203
##    [51] 0.5659339777 0.3546231079 0.5978494940 0.1056394250 0.1930252865
##    [56] 0.2586002412 0.4876898125 0.4279432860 0.1491876600 0.7242216818
##    [61] 0.0465443962 0.5152103304 0.3891138782 0.2397680707 0.0409892193
##    [66] 0.6015651941 0.7040370161 0.1097824977 0.0534687453 0.1097581757
##    [71] 0.3512305480 0.1469649205 0.4047795511 0.3360569929 0.3327796236
##    [76] 0.1535015186 0.3016567352 0.1398679542 0.2007563734 0.0339177888
##    [81] 0.0478353105 0.2385338035 0.0309357108 0.1001971580 0.3161390293
##    [86] 0.3228387309 0.5113763137 0.2149724481 0.1513191759 0.1634413435
##    [91] 0.0343077012 0.0438800453 0.0430384675 0.2662743578 0.1427754604
##    [96] 0.2150102980 0.2513038477 0.3082684721 0.0721367904 0.2542225869
```

```
##   [101] 0.2736274652 0.1428046816 0.2299820040 0.4243628609 0.2939495664
##   [106] 0.2111995087 0.5820537264 0.7316037627 0.3839117026 0.1015476635
##   [111] 0.0109684152 0.3734430917 0.1270817499 0.2176881732 0.0401928930
##   [116] 0.1819601275 0.0643256344 0.0375522845 0.0303037696 0.2271796008
##   [121] 0.6864443971 0.2299820040 0.2795082355 0.4709834721 0.1014256450
##   [126] 0.3698073164 0.0582433539 0.5313923552 0.0936780547 0.5871656482
##   [131] 0.4389609851 0.1657043131 0.2814763014 0.3226185073 0.3594652829
##   [136] 0.4243628609 0.3408520925 0.2571590039 0.0238053732 0.2110221065
##   [141] 0.1969637579 0.1919371722 0.5942624192 0.0353161668 0.3016115839
##   [146] 0.1588272827 0.5942624192 0.0464846623 0.2232844604 0.4314787378
##   [151] 0.1919371722 0.0300318443 0.2573569599 0.0739554260 0.6085969096
##   [156] 0.3080525442 0.3193950174 0.0550547516 0.0745828862 0.3408996047
##   [161] 0.1513495584 0.0516486410 0.2630843107 0.0619853023 0.0401928930
##   [166] 0.5025047772 0.0339177888 0.4317199403 0.2232844604 0.4951671694
##   [171] 0.1657043131 0.4156689280 0.2244353422 0.4156689280 0.3478019290
##   [176] 0.1808769879 0.4516011055 0.2272186662 0.7116763407 0.2271796008
##   [181] 0.2414126877 0.4861036702 0.4389609851 0.6684171248 0.1006360068
##   [186] 0.7211621737 0.0936780547 0.4120606868 0.5024530985 0.2096387962
##   [191] 0.3546231079 0.0451647959 0.6684171248 0.4640466678 0.0806551928
##   [196] 0.4207886668 0.0492119428 0.1438145382 0.1202810222 0.6277553831
##   [201] 0.2414126877 0.1080774449 0.4676763400 0.3734921497 0.0222773063
##   [206] 0.3361042462 0.1634413435 0.2244353422 0.3341791694 0.3663653178
##   [211] 0.5497038187 0.6013283428 0.0152253550 0.0666546892 0.3048471857
##   [216] 0.4477442575 0.0328972692 0.4083221604 0.6896747316 0.2984364525
##   [221] 0.2046513732 0.0430384675 0.2843755474 0.0430384675 0.2232457796
##   [226] 0.1566261907 0.4389609851 0.1737900018 0.1038937664 0.3147250630
##   [231] 0.4982908751 0.0854520088 0.5261759812 0.2327640503 0.1535015186
##   [236] 0.2111995087 0.2861259643 0.0791059148 0.4118722783 0.0597848111
##   [241] 0.6579408867 0.0759768214 0.0496813182 0.3665475235 0.1491876600
##   [246] 0.0540455174 0.1090373735 0.1407547035 0.4083221604 0.0262076042
##   [251] 0.7788815971 0.6242956874 0.5766876453 0.1533562761 0.2768806792
##   [256] 0.0999364151 0.2111995087 0.1187192735 0.6747696195 0.4080047562
##   [261] 0.1955373129 0.2707995241 0.2514581344 0.0556308763 0.0281739901
##   [266] 0.3546231079 0.5746687208 0.1556736469 0.5476631170 0.5476631170
##   [271] 0.0492119428 0.6120996602 0.1929908233 0.1097824977 0.0653163266
##   [276] 0.2675821248 0.1247699920 0.3361042462 0.1679874432 0.4549759958
##   [281] 0.4655775042 0.1469649205 0.2484029218 0.0230084857 0.0357192161
##   [286] 0.2675821248 0.1634413435 0.3375565765 0.1151324382 0.6764476316
##   [291] 0.1097824977 0.5799911049 0.3734430917 0.4515498070 0.2483618984
##   [296] 0.1689883353 0.2272186662 0.5076826700 0.4156689280 0.2543778142
##   [301] 0.3961842167 0.1737900018 0.0502123948 0.4047293514 0.4404787438
##   [306] 0.1251900720 0.3891138782 0.4389099120 0.5061475818 0.1666964265
##   [311] 0.1133682026 0.0696606099 0.0465443962 0.2085686087 0.1784835198
##   [316] 0.3442551728 0.0739554260 0.4192336759 0.4083221604 0.6684171248
##   [321] 0.2586002412 0.5149656959 0.1795576514 0.3327325545 0.3818954512
##   [326] 0.3784673353 0.1358455998 0.2070776160 0.4120606868 0.1513495584
##   [331] 0.2843755474 0.5922642898 0.1929897935 0.3408996047 0.7116763407
##   [336] 0.4317199403 0.3082228839 0.1398679542 0.4279432860 0.3784180736
##   [341] 0.1944405775 0.6864443971 0.1357118394 0.1438145382 0.5240724531
##   [346] 0.7346056010 0.1249220753 0.5333900950 0.1491876600 0.4479357343
##   [351] 0.4460204272 0.0124641810 0.0306590926 0.3080525442 0.5710866588
##   [356] 0.2299426725 0.0603839600 0.2385739418 0.1634093863 0.3629340360
##   [361] 0.1894535943 0.0281739901 0.0671705395 0.7054101604 0.0806551928
##   [366] 0.4676763400 0.2046146062 0.7285849450 0.1309245537 0.4317199403
```

```
##    [371] 0.2984364525 0.1151324382 0.7242216818 0.3926197206 0.2327640503
##    [376] 0.6864443971 0.0952148279 0.2876456119 0.3050167406 0.2385338035
##    [381] 0.3408520925 0.5747194920 0.4207886668 0.3193950174 0.6171617627
##    [386] 0.1689883353 0.2299426725 0.0336193241 0.0346111775 0.1113045410
##    [391] 0.5623381393 0.4083221604 0.4353632522 0.0696606099 0.1169161072
##    [396] 0.5313923552 0.4138286110 0.2031916666 0.3663653178 0.1894185054
##    [401] 0.5094638860 0.1357118394 0.0981184736 0.4207886668 0.0983439181
##    [406] 0.4151614299 0.1358455998 0.1666964265 0.2006205623 0.5025047772
##    [411] 0.0820299194 0.3408996047 0.0530509837 0.1892523415 0.4678688394
##    [416] 0.5424665278 0.7867307257 0.1643935221 0.5460870862 0.2057823385
##    [421] 0.2059571302 0.2603120891 0.3958978519 0.2385739418 0.0619853023
##    [426] 0.0128049090 0.5587371453 0.1843826050 0.0322766613 0.3734921497
##    [431] 0.4824634788 0.0197430241 0.2556552365 0.0571178483 0.1894535943
##    [436] 0.2660729107 0.2176881732 0.5204351037 0.2455199410 0.3016115839
##    [441] 0.0329423553 0.3082684721 0.5659339777 0.2603120891 0.4353632522
##    [446] 0.2707995241 0.3961842167 0.4083221604 0.3546231079 0.1269540102
##    [451] 0.2845397520 0.2843316155 0.1578659493 0.5220213523 0.3871406690
##    [456] 0.1676283267 0.2467339350 0.1795246988 0.4243628609 0.4156184080
##    [461] 0.2385739418 0.1781778020 0.5891712592 0.5512780899 0.0812519054
##    [466] 0.5942624192 0.1438313528 0.3294212163 0.1195108922 0.2483618984
##    [471] 0.2455199410 0.3924336419 0.3478019290 0.4243628609 0.2573569599
##    [476] 0.0726849769 0.0315785195 0.0721367904 0.0582433539 0.0820299194
##    [481] 0.1513495584 0.5907177502 0.0975502274 0.1407257670 0.2111995087
##    [486] 0.4258725264 0.4915246574 0.1419091899 0.2259818116 0.2150102980
##    [491] 0.1251900720 0.5476631170 0.0465443962 0.0438800453 0.3226185073
##    [496] 0.6242956874 0.4913315720 0.4404787438 0.0360814787 0.1151072752
##    [501] 0.0116275239 0.0383058425 0.5277077976 0.0951109793 0.3114437257
##    [506] 0.4243628609 0.0855479182 0.0582433539 0.7377902592 0.6432027304
##    [511] 0.2410069856 0.0487513311 0.7285849450 0.0329423553 0.3734921497
##    [516] 0.7407565159 0.2341313932 0.6598790877 0.0496813182 0.5731090206
##    [521] 0.1124884217 0.2587820737 0.4389609851 0.6101735974 0.5549399997
##    [526] 0.3541388802 0.0353161668 0.4192336759 0.1223843397 0.0981184736
##    [531] 0.4441347387 0.2083925093 0.1795237141 0.3560563488 0.6242956874
##    [536] 0.3002716032 0.1213421554 0.1980690907 0.2085686087 0.0478353105
##    [541] 0.4751362033 0.7211621737 0.2952766192 0.5350227457 0.1566261907
##    [546] 0.0952148279 0.0197430241 0.3147250630 0.0456618297 0.0188846819
##    [551] 0.2471448067 0.6222908815 0.4458482150 0.0261285750 0.4803580582
##    [556] 0.1967730177 0.5710866588 0.1377116631 0.2738317544 0.2244353422
##    [561] 0.6910774065 0.1966029425 0.3034554981 0.3700389947 0.1205419982
##    [566] 0.0261703169 0.0012351708 0.3361042462 0.3016567352 0.5076826700
##    [571] 0.0696606099 0.1758069577 0.1054255447 0.2542225869 0.4404787438
##    [576] 0.2123516511 0.5277077976 0.1398679542 0.3594652829 0.4279432860
##    [581] 0.0654821316 0.1689883353 0.0883410935 0.0382548203 0.1771425337
##    [586] 0.3961842167 0.1544144815 0.1556736469 0.0430384675 0.1289659737
##    [591] 0.7211621737 0.3442551728 0.5587371453 0.4910055692 0.1317452494
##    [596] 0.4065111128 0.3223717364 0.0726849769 0.1758069577 0.0912901756
##    [601] 0.1398679542 0.5907177502 0.1195108922 0.0593137307 0.2020692172
##    [606] 0.5710866588 0.0778497565 0.1556736469 0.4477442575 0.2442696834
##    [611] 0.3697584147 0.0401928930 0.5404230944 0.6499910369 0.0386379451
##    [616] 0.0721367904 0.4243121135 0.0752427730 0.3016567352 0.3016567352
##    [621] 0.1196230373 0.0678434312 0.1588272827 0.4477442575 0.3543947644
##    [626] 0.4824634788 0.0474406013 0.3002716032 0.4751362033 0.1869760262
##    [631] 0.5907177502 0.7493312599 0.2573569599 0.1632899964 0.1634413435
##    [636] 0.0983439181 0.1151324382 0.1080774449 0.6548345363 0.5710866588
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##    [641] 0.1894185054 0.6684171248 0.0530509837 0.2085686087 0.3749505144
##    [646] 0.3961842167 0.6120996602 0.0826342771 0.5461384203 0.5513293416
##    [651] 0.2874363986 0.5674987323 0.0560788181 0.0733999149 0.1151324382
##    [656] 0.1169161072 0.1930111472 0.0659909466 0.5040400444 0.1428046816
##    [661] 0.6171617627 0.0868875802 0.2033651457 0.7761603862 0.2271796008
##    [666] 0.1378467675 0.3226649917 0.1298321218 0.6429738414 0.1407257670
##    [671] 0.2632846040 0.5025047772 0.2829841213 0.2705963625 0.6684171248
##    [676] 0.3734430917 0.0726849769 0.3749996350 0.0438800453 0.5060959082
##    [681] 0.1512056708 0.3648205449 0.1038937664 0.0346111775 0.0526223021
##    [686] 0.6085969096 0.1578347084 0.0336193241 0.1298321218 0.0506893571
##    [691] 0.2830279533 0.6698592615 0.0834222263 0.1469649205 0.0294152742
##    [696] 0.4085101786 0.3147250630 0.1481534449 0.3327796236 0.0936780547
##    [701] 0.1090373735 0.6277553831 0.2542225869 0.3511825059 0.4335052598
##    [706] 0.3976680015 0.0178824429 0.7636741385 0.1955373129 0.2468867230
##    [711] 0.4988617638 0.0243222366 0.0381976964 0.5060959082 0.1566261907
##    [716] 0.0593137307 0.0300318443 0.5383256593 0.6085969096 0.0447348468
##    [721] 0.3327796236 0.1015476635 0.3816331896 0.4121111065 0.3732597774
##    [726] 0.3511825059 0.2645849084 0.0967700854 0.0275893558 0.0778686233
##    [731] 0.1022554504 0.5747194920 0.3147250630 0.3147250630 0.6650972033
##    [736] 0.1056630859 0.3595137231 0.4751362033 0.7147856829 0.4012447295
##    [741] 0.0426759549 0.0456618297 0.4587897152 0.1785173331 0.2906015088
##    [746] 0.0708903951 0.4988617638 0.5113763137 0.0967700854 0.1829452760
##    [751] 0.3700389947 0.2603120891 0.6731601947 0.2876456119 0.2455199410
##    [756] 0.2781705795 0.1040045391 0.7085511063 0.5388424417 0.5188500293
##    [761] 0.6764476316 0.1857586037 0.1151324382 0.0170677463 0.3341791694
##    [766] 0.5186571128 0.2272186662 0.0884394147 0.0778686233 0.2907674029
##    [771] 0.3559637828 0.2616048655 0.3961842167 0.0597848111 0.1056630859
##    [776] 0.2675821248 0.5891712592 0.4278924522 0.7116763407 0.5060959082
##    [781] 0.3245165735 0.3341791694 0.5907177502 0.2246425160 0.6240628355
##    [786] 0.1378467675 0.1259856682 0.1080774449 0.2151517797 0.5425179141
##    [791] 0.3327796236 0.3016567352 0.0745828862 0.1544452747 0.0593137307
##    [796] 0.7407565159 0.6050853304 0.3427442612 0.1917696552 0.5349712650
##    [801] 0.0671705395 0.0516486410 0.6910774065 0.2939049451 0.7815837802
##    [806] 0.0193098004 0.2601129595 0.3546231079 0.6717238683 0.5350227457
##    [811] 0.4712571558 0.5313408353 0.5277077976 0.0806551928 0.0447348468
##    [816] 0.2111995087 0.2149724481 0.1317721065 0.2176881732 0.7071847490
##    [821] 0.1944405775 0.0401928930 0.0206647864 0.0982375734 0.0746798864
##    [826] 0.2031916666 0.1679549140 0.5224881575 0.4317199403 0.0671705395
##    [831] 0.1736325599 0.4085101786 0.5179066438 0.8014134195 0.7316037627
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##    [841] 0.0854520088 0.1747995408 0.4676763400 0.6617643292 0.3080525442
##    [846] 0.6120996602 0.5623381393 0.7116763407 0.0368108749 0.3145071862
##    [851] 0.0135582599 0.4192336759 0.3160929418 0.1761436291 0.4749434515
##    [856] 0.5077343400 0.2083925093 0.5907177502 0.2085686087 0.5820537264
##    [861] 0.1892874115 0.3016567352 0.2150102980 0.4787731421 0.5977993759
##    [866] 0.6432027304 0.4588411193 0.3926695177 0.6243448370 0.3784180736
##    [871] 0.6514633720 0.3512305480 0.1544452747 0.2484029218 0.5277077976
##    [876] 0.1115067730 0.3048018216 0.2256296228 0.5224881575 0.0129556766
##    [881] 0.6327041724 0.1398391417 0.3663653178 0.1589445335 0.3819448503
##    [886] 0.1771415573 0.1132503422 0.5352151269 0.2874363986 0.0123387228
##    [891] 0.1666964265 0.5388424417 0.0262076042 0.2690113690 0.5131570989
##    [896] 0.2934568203 0.2630178337 0.3836490275 0.3507479893 0.7116763407
##    [901] 0.2109632311 0.0998158120 0.3016567352 0.2903658792 0.3626274379
##    [906] 0.0487513311 0.3323068524 0.3050167406 0.5003970820 0.4751362033
```

```
##    [911] 0.2299820040 0.4824634788 0.0217973524 0.6533674602 0.4263828119
##    [916] 0.1893512357 0.0899121875 0.0165208072 0.0133996737 0.4315296539
##    [921] 0.2737886224 0.2500379311 0.2059571302 0.1176992131 0.0191236182
##    [926] 0.1490752233 0.0826342771 0.5907177502 0.0840342761 0.0506893571
##    [931] 0.4477442575 0.1819601275 0.3784180736 0.2059571302 0.0322323280
##    [936] 0.1995066577 0.1689883353 0.0936780547 0.3560563488 0.6650972033
##    [941] 0.2005842300 0.3698073164 0.2675394872 0.1501319085 0.1809110855
##    [946] 0.2707566300 0.3543947644 0.1490752233 0.5746687208 0.1356836140
##    [951] 0.0951109793 0.5168476856 0.6864443971 0.3114895210 0.4389099120
##    [956] 0.3511825059 0.0287689017 0.0383058425 0.0696606099 0.1869550855
##    [961] 0.1089227555 0.3495291308 0.1378467675 0.1944405775 0.0418531245
##    [966] 0.0631850729 0.0360328911 0.4676763400 0.3543947644 0.0779580437
##    [971] 0.2952766192 0.4913315720 0.0593137307 0.4047293514 0.0182883074
##    [976] 0.3546231079 0.3442551728 0.3109837939 0.2662743578 0.0182883074
##    [981] 0.1097824977 0.2203851908 0.4353122528 0.7636741385 0.1689883353
##    [986] 0.1679874432 0.1869550855 0.0288092511 0.0025983877 0.0426759549
##    [991] 0.1022554504 0.0765471339 0.6731601947 0.3341791694 0.0530373867
##    [996] 0.0132149145 0.3511825059 0.7973715531 0.7449844279 0.2569372125
##   [1001] 0.4171718950 0.1747995408 0.2738317544 0.0765471339 0.1689883353
##   [1006] 0.7242216818 0.2414126877 0.0281739901 0.1169161072 0.0339177888
##   [1011] 0.4085101786 0.4603685608 0.3016567352 0.6136227207 0.1894185054
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## [99806] 0.1610485519 0.2256296228 0.3992047400 0.3308164983 0.7067370782
## [99811] 0.3680473081 0.4892259876 0.0161240144 0.0925819561 0.4676763400
## [99816] 0.2357136876 0.0869846920 0.5420016173 0.3080069699 0.1388491457
## [99821] 0.2033651457 0.5891712592 0.2014739332 0.1357118394 0.1736325599
## [99826] 0.5460870862 0.6171123270 0.0435520217 0.0526223021 0.0826342771
## [99831] 0.3595137231 0.2889606126 0.0387837044 0.1682185264 0.3146790635
## [99836] 0.1186935574 0.2441104364 0.2603120891 0.0683497878 0.3766732527
## [99841] 0.3002265455 0.0762772922 0.0206864837 0.0827750639 0.0729079356
## [99846] 0.3997073746 0.0581569130 0.5169195721 0.2573151645 0.4624664053
## [99851] 0.3002716032 0.0890787682 0.0526223021 0.0487513311 0.0577109048
## [99856] 0.2164812590 0.6085969096 0.4154296242 0.3611643099 0.1784835198
## [99861] 0.0335734761 0.2632846040 0.2083925093 0.1759848371 0.2440771254
## [99866] 0.1555270488 0.3580272388 0.4713087015 0.1460519129 0.0346111775
## [99871] 0.2830279533 0.6499910369 0.2287367003 0.0526223021 0.1645639136
## [99876] 0.3394417393 0.2031916666 0.4347999353 0.2257750684 0.0473120337
## [99881] 0.2858920538 0.0855479182 0.0869846920 0.0195532967 0.1502751150
## [99886] 0.3259020601 0.0375522845 0.0721367904 0.4083221604 0.0657039495
## [99891] 0.3394417393 0.0182883074 0.1527496412 0.1969278263 0.1587959171
## [99896] 0.3891138782 0.4476930222 0.1378182392 0.4425637679 0.2098742022
## [99901] 0.3663653178 0.4192336759 0.1283251560 0.1097581757 0.2085686087
## [99906] 0.1302495630 0.6188154878 0.5914841992 0.0515837286 0.2287367003
## [99911] 0.3949090964 0.7316037627 0.0811295918 0.0426759549 0.0161487565
## [99916] 0.6964583713 0.0982151346 0.6217483341 0.2756947264 0.0163807574
## [99921] 0.1090373735 0.3217244635 0.2503303311 0.3048471857 0.1107532661
## [99926] 0.2117021842 0.1206294511 0.5061475818 0.3048471857 0.0287689017
## [99931] 0.1250636611 0.0967700854 0.1470762897 0.1448747464 0.5115693638
## [99936] 0.2140820292 0.2006205623 0.1313209988 0.7119054936 0.1905190379
## [99941] 0.1470762897 0.5683252904 0.3700389947 0.4120606868 0.5805714998
## [99946] 0.2720753821 0.3408996047 0.0952148279 0.0516486410 0.3665475235
## [99951] 0.4748918740 0.6050853304 0.0443608388 0.0483505797 0.2543778142
## [99956] 0.0525564193 0.2176881732 0.2123516511 0.0666546892 0.4156689280
## [99961] 0.1969637579 0.5533164281 0.1919371722 0.0608772831 0.6885511574
## [99966] 0.5137491933 0.0993795794 0.2768806792 0.4603685608 0.3277169325
## [99971] 0.4712571558 0.0665753881 0.1578659493 0.3766732527 0.1163557175
## [99976] 0.3259487384 0.2829841213 0.3510029908 0.3114437257 0.2138497535
## [99981] 0.0220671408 0.6275232129 0.1892523415 0.6797213545 0.3853823842
## [99986] 0.0556308763 0.3128513532 0.2111620516 0.0390716841 0.0464846623
## [99991] 0.5731090206 0.2059571302 0.2486954953 0.4315296539 0.3545748999
## [99996] 0.4736771127 0.3179748923 0.4876381576 0.0729253617
```

```
## [ reached getOption("max.print") -- omitted 827268 entries ]
```

Question 2 - Estimate by OLS

```r
# Fit OLS
ols <- lm(lnincome ~ I(racem) + I(agem) + agemomfirst + I(sexk) +
            prop_score*(I(racem) + I(agem) + agemomfirst + I(sexk)) +
            prop_score + (prop_score)^2 + prop_score^3,
                data = data)

summary(ols)
```

```
##
## Call:
## lm(formula = lnincome ~ I(racem) + I(agem) + agemomfirst + I(sexk) +
##     prop_score * (I(racem) + I(agem) + agemomfirst + I(sexk)) +
##     prop_score + (prop_score)^2 + prop_score^3, data = data)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -8.7949 -0.3097  0.1485  0.4752  2.3921
##
## Coefficients:
##                          Estimate Std. Error  t value Pr(>|t|)
## (Intercept)             8.8567578  0.0082969 1067.479  < 2e-16 ***
## I(racem)               -0.0358223  0.0007606  -47.098  < 2e-16 ***
## I(agem)                 0.0105321  0.0003975   26.497  < 2e-16 ***
## agemomfirst             0.0237473  0.0005194   45.718  < 2e-16 ***
## I(sexk)                 0.0031973  0.0028008    1.142 0.253633
## prop_score             -1.0586882  0.0305507  -34.654  < 2e-16 ***
## I(racem):prop_score    -0.0111644  0.0018341   -6.087 1.15e-09 ***
## I(agem):prop_score      0.0292348  0.0010811   27.042  < 2e-16 ***
## agemomfirst:prop_score  0.0163819  0.0014140   11.585  < 2e-16 ***
## I(sexk):prop_score     -0.0281703  0.0084111   -3.349 0.000811 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.7848 on 917695 degrees of freedom
##   (9562 observations deleted due to missingness)
## Multiple R-squared:  0.07679,    Adjusted R-squared:  0.07678
## F-statistic:  8481 on 9 and 917695 DF,  p-value: < 2.2e-16
```

Question 2a - Relate structural equation and probit regression

Suppose we specify the potential outcome equations as $Y_i(1) = X_i'\theta_1 + \epsilon_{1i}$ and $Y_i(0) = X_i'\theta_0 + \epsilon_{0i}$, and the structural selection equation as $D_i = 1\{u(X_i, Z_i) \geq V_i\}$. where $u(X_i, Z_i) - V_i$ is the latent utility derived from additional children.