RDD_Appendix

name: <unnamed>

log: Z:\OneDrive - The University of Texas at Austin\學習小札\2020

UTAustin\2021 Sp_Causal Inference\RDD

> Replication\RDD_yh23469.log

log type: text

opened on: 17 Feb 2021, 23:44:06

. use "Z:\OneDrive - The University of Texas at Austin\學習小札\2020 UTAustin\2021 Sp_Causal Inference\RDD Repli

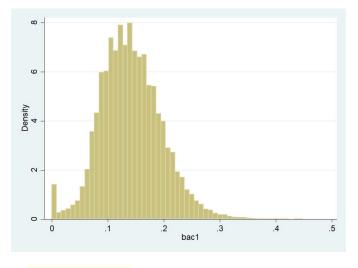
> cation\hansen_dwi.dta", clear

*question3---

bacc as our dummy variable

- . gen bacc=0
- . replace bacc=1 if bac1>=0.08
- . hist bac1
 (bin=53, start=0, width=.0084717)
- *question4---

*****Graph 1****



- *question5---
- . reg bacc white male aged acc, robust

Linear regression

Number of obs = 214,558 F(4, 214553) = 93.40 Prob > F = 0.0000

R-squared	=	0.0016
Root MSF	=	30918

bacc	 Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
	+					
white	.0171179	.0020259	8.45	0.000	.0131472	.0210886
male	.0036559	.0016481	2.22	0.027	.0004256	.0068862
aged	0004864	.0000611	-7.97	0.000	0006061	0003667
acc	.0277418	.0017297	16.04	0.000	.0243517	.031132
_cons	.8880377	.0030581	290.39	0.000	.8820439	.8940314

. sum white male aged acc

Variable	Obs	Mean	Std. Dev.	Min	Max
white	214,558	.8615899	.3453307	0	1
male	214,558	.7895115	.4076566	0	1
aged	214,558	34.95732	11.50298	21	80
acc	214,558	.1472935	.3543991	0	1

. sum bacc

Variable		Mean	Std. Dev.	Min	Max
	214,558			0	1

. reg recidivism male white age acc bac1 bacc baccbac1, r

Linear regression	Number of obs	=	214,558
	F(7, 214550)	=	124.71
	Prob > F	=	0.0000
	R-squared	_	a aa39

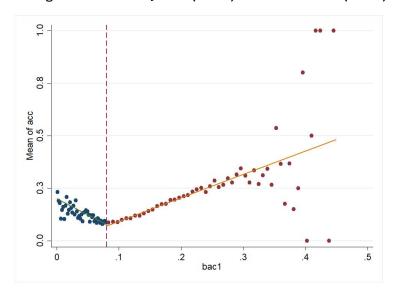
Root MSE = .32155

recidivism	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
male	.029019	.001594	18.21	0.000	.0258948	.0321432
white	.0036446	.0020067	1.82	0.069	0002884	.0075776
aged	0006428	.0000586	-10.98	0.000	0007575	000528
acc	0075694	.0019721	-3.84	0.000	0114346	0037041
bac1	024135	.0846329	-0.29	0.776	1900135	.1417435
bacc	0542229	.0057368	-9.45	0.000	065467	0429789
baccbac1	.3764633	.0863911	4.36	0.000	.2071388	.5457877

_cons | .1158642 .0059721 19.40 0.000 .104159 .1275694

. *question6---

. cmogram acc bac1, cut(0.08) scatter line(0.08) lfit



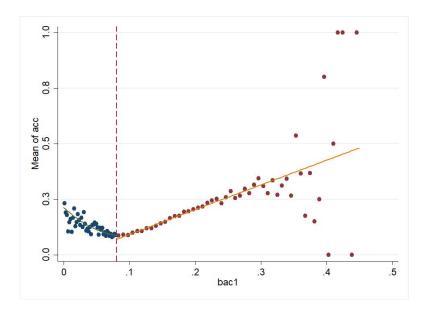
Plotting mean of acc, conditional on bac1.

```
Bin #1: [0,.0018604650746944] (n = 1747) (mean = .2312535775615341)
Bin #2: (.0018604650746944,.0037209301493888] (n = 430) (mean = .1906976744186047)
Bin #3: (.0037209301493888,.0055813952240832] (n = 205) (mean = .1804878048780488)
Bin #4: (.0055813952240832,.0074418602987776] (n = 113) (mean = .1061946902654867)
Bin #5: (.0074418602987776,.009302325373472] (n = 123) (mean = .1463414634146341)
Bin #6: (.009302325373472,.0111627904481664] (n = 118) (mean = .1610169491525424)
Bin #7: (.0111627904481664,.0130232555228608] (n = 116) (mean = .103448275862069)
Bin #8: (.0130232555228608,.0148837205975552] (n = 66) (mean = .1666666666666667)
Bin #9: (.0148837205975552,.0167441856722496] (n = 110) (mean = .2090909090909091)
Bin #10: (.0167441856722496,.018604650746944] (n = 139) (mean = .1294964028776978)
Bin #11: (.018604650746944,.0204651158216384] (n = 129) (mean = .1472868217054264)
Bin #12: (.0204651158216384,.0223255808963328] (n = 126) (mean = .1825396825396825)
Bin #13: (.0223255808963328,.0241860459710272] (n = 153) (mean = .1568627450980392)
Bin #14: (.0241860459710272,.0260465110457216] (n = 171) (mean = .1345029239766082)
Bin #15: (.0260465110457216,.027906976120416] (n = 90) (mean = .1666666666666667)
Bin #16: (.027906976120416,.0297674411951104] (n = 175) (mean = .1257142857142857)
Bin #17: (.0297674411951104,.0316279062698048] (n = 203) (mean = .1921182266009852)
Bin #18: (.0316279062698048,.0334883713444992] (n = 208) (mean = .1394230769230769)
Bin #19: (.0334883713444992,.0353488364191936] (n = 212) (mean = .1084905660377359)
Bin #20: (.0353488364191936,.037209301493888] (n = 222) (mean = .1171171171171)
Bin #21: (.037209301493888,.0390697665685824] (n = 218) (mean = .1055045871559633)
Bin #22: (.0390697665685824,.0409302316432768] (n = 111) (mean = .1261261261261261)
Bin #23: (.0409302316432768,.0427906967179712] (n = 280) (mean = .0928571428571429)
```

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Bin #24: (.0427906967179712,.0446511617926656] (n = 297) (mean = .1346801346801347)
Bin #25: (.0446511617926656,.04651162686736] (n = 309) (mean = .1359223300970874)
Bin #26: (.04651162686736,.0483720919420544] (n = 365) (mean = .1452054794520548)
Bin #27: (.0483720919420544,.0502325570167488] (n = 379) (mean = .1398416886543536)
Bin #28: (.0502325570167488,.0520930220914432] (n = 452) (mean = .1238938053097345)
Bin #29: (.0520930220914432,.0539534871661376] (n = 222) (mean = .0900900900900901)
Bin #30: (.0539534871661376,.055813952240832] (n = 503) (mean = .121272365805169)
Bin #31: (.055813952240832,.0576744173155264] (n = 576) (mean = .1128472222222222)
Bin #32: (.0576744173155264,.0595348823902208] (n = 648) (mean = .1219135802469136)
Bin #33: (.0595348823902208,.0613953474649152] (n = 786) (mean = .0928753180661578)
Bin #34: (.0613953474649152,.0632558125396096] (n = 908) (mean = .1013215859030837)
Bin #35: (.0632558125396096,.065116277614304] (n = 935) (mean = .0855614973262032)
Bin #36: (.065116277614304,.0669767426889984] (n = 508) (mean = .1062992125984252)
Bin #37: (.0669767426889984,.0688372077636928] (n = 1124) (mean = .099644128113879)
Bin #38: (.0688372077636928,.0706976728383872] (n = 1276) (mean = .085423197492163)
Bin \#39: (.0706976728383872,.0725581379130816] (n = 1421) (mean =
.0950035186488389)
Bin #40: (.0725581379130816,.074418602987776] (n = 1534) (mean = .0808344198174707)
Bin #41: (.074418602987776,.0762790680624704] (n = 1661) (mean = .0854906682721252)
Bin \#42: (.0762790680624704,.0781395331371648] (n = 1759) (mean =
.0938032973280273)
Bin \#43: (.0781395331371648,.0799999982118607] (n = 1882) (mean =
.0887353878852285)
Bin #1: [.08,.0870961538644937] (n = 7516) (mean = .0875465673230442)
Bin #2: (.0870961538644937,.0941923077289874] (n = 8836) (mean = .0907650520597555)
Bin #3: (.0941923077289874,.1012884615934811] (n = 9669) (mean = .0882200848071155)
Bin #4: (.1012884615934811,.1083846154579748] (n = 10403) (mean =
.1001634143996924)
Bin #5: (.1083846154579748,.1154807693224685] (n = 10849) (mean =
.1065535994100839)
Bin #6: (.1154807693224685,.1225769231869622) (n = 11032) (mean =
.1077773749093546)
Bin #7: (.1225769231869622,.1296730770514559] (n = 11176) (mean =
.1207050823192555)
Bin \#8: (.1296730770514559,.1367692309159496] (n = 11318) (mean 
.1195440890616717)
Bin #9: (.1367692309159496,.1438653847804433] (n = 11281) (mean =
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Bin #10: (.1438653847804433,.150961538644937] (n = 11104) (mean =
.1413904899135447)
Bin #11: (.150961538644937,.1580576925094307] (n = 11942) (mean =
.1493049740411991)
Bin \#12: (.1580576925094307,.1651538463739244] (n = 9820) (mean =
.1646639511201629)
Bin #13: (.1651538463739244,.1722500002384181] (n = 9268) (mean =
.1733923176521364)
Bin \#14: (.1722500002384181,.1793461541029118] (n = 8405) (mean =
.1760856632956573)
Bin #15: (.1793461541029118, .1864423079674055] (n = 7425) (mean =
.1934006734006734)
```

```
Bin #16: (.1864423079674055,.1935384618318992] (n = 6904) (mean =
.1951042873696408)
Bin \#17: (.1935384618318992,.2006346156963929] (n = 5882) (mean =
.2057123427405644)
Bin #18: (.2006346156963929,.2077307695608866] (n = 5054) (mean =
.2115156311832212)
Bin #19: (.2077307695608866, .2148269234253803] (n = 4234) (mean = 423
.2179971658006613)
Bin #20: (.2148269234253803,.221923077289874] (n = 3642) (mean = .2342119714442614)
Bin #21: (.221923077289874,.2290192311543677] (n = 3441) (mean = .2441150828247602)
Bin \#22: (.2290192311543677,.2361153850188614] (n = 2402) (mean =
.2522897585345545)
Bin \#23: (.2361153850188614,.2432115388833551] (n = 1976) (mean =
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Bin \#24: (.2432115388833551,.2503076927478488] (n = 1584) (mean =
.2588383838383838)
Bin #25: (.2503076927478488,.2574038466123425] (n = 1313) (mean =
.2871287128712871)
Bin #26: (.2574038466123425,.2645000004768362] (n = 1075) (mean =
.2548837209302325)
Bin #27: (.2645000004768362,.2715961543413299] (n = 789) (mean = .2674271229404309)
Bin #28: (.2715961543413299,.2786923082058236] (n = 664) (mean = .2981927710843373)
Bin #29: (.2786923082058236,.2857884620703173] (n = 530) (mean = .2773584905660377)
Bin #30: (.2857884620703173,.292884615934811] (n = 425) (mean = .3152941176470588)
Bin #31: (.292884615934811,.2999807697993047] (n = 348) (mean = .3448275862068966)
Bin #32: (.2999807697993047,.3070769236637984] (n = 303) (mean = .3102310231023102)
Bin #33: (.3070769236637984,.3141730775282921] (n = 223) (mean = .2780269058295964)
Bin #34: (.3141730775282921,.3212692313927858] (n = 170) (mean = .3352941176470588)
Bin #35: (.3212692313927858,.3283653852572795] (n = 133) (mean = .2706766917293233)
Bin #36: (.3283653852572795,.3354615391217732] (n = 90) (mean = .311111111111111)
Bin #37: (.3354615391217732,.3425576929862669] (n = 102) (mean = .3431372549019608)
Bin #38: (.3425576929862669,.3496538468507606] (n = 75) (mean = .266666666666667)
Bin #39: (.3496538468507606,.3567500007152543] (n = 41) (mean = .5365853658536586)
Bin #40: (.3567500007152543,.363846154579748] (n = 30) (mean = .366666666666666)
Bin #41: (.363846154579748,.3709423084442417] (n = 17) (mean = .1764705882352941)
Bin #42: (.3709423084442417,.3780384623087354] (n = 19) (mean = .3684210526315789)
Bin \#43: (.3780384623087354,.3851346161732291] (n = 20) (mean = .15)
Bin \#44: (.3851346161732291,.3922307700377228] (n = 4) (mean = .25)
Bin #45: (.3922307700377228,.3993269239022165] (n = 5) (mean = .8)
Bin #46: (.3993269239022165,.4064230777667102] (n = 3) (mean = 0)
Bin #47: (.4064230777667102, .4135192316312039] (n = 2) (mean = .5)
Bin #48: (.4135192316312039,.4206153854956976] (n = 1) (mean = 1)
Bin #49: (.4206153854956976,.4277115393601913] (n = 1) (mean = 1)
Bin #50: (.4277115393601913,.434807693224685] (n = 0) (mean = .)
Bin #51: (.434807693224685,.4419038470891787] (n = 1) (mean = 0)
Bin #52: (.4419038470891787,.4490000009536743] (n = 1) (mean = 1)
```

. cmogram acc bac1, cut(0.08) scatter line(0.08) qfit



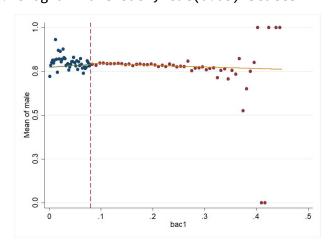
Plotting mean of acc, conditional on bac1.

```
Bin #1: [0,.0018604650746944] (n = 1747) (mean = .2312535775615341)
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Bin #8: (.0130232555228608,.0148837205975552] (n = 66) (mean = .1666666666666667)
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Bin #11: (.018604650746944,.0204651158216384] (n = 129) (mean = .1472868217054264)
Bin #12: (.0204651158216384,.0223255808963328] (n = 126) (mean = .1825396825396825)
Bin #13: (.0223255808963328,.0241860459710272] (n = 153) (mean = .1568627450980392)
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Bin #21: (.037209301493888,.0390697665685824] (n = 218) (mean = .1055045871559633)
Bin #22: (.0390697665685824,.0409302316432768] (n = 111) (mean = .1261261261261261)
Bin #23: (.0409302316432768,.0427906967179712] (n = 280) (mean = .0928571428571429)
Bin #24: (.0427906967179712,.0446511617926656] (n = 297) (mean = .1346801346801347)
Bin #25: (.0446511617926656,.04651162686736] (n = 309) (mean = .1359223300970874)
Bin #26: (.04651162686736,.0483720919420544] (n = 365) (mean = .1452054794520548)
Bin #27: (.0483720919420544,.0502325570167488] (n = 379) (mean = .1398416886543536)
Bin #28: (.0502325570167488,.0520930220914432] (n = 452) (mean = .1238938053097345)
Bin #29: (.0520930220914432,.0539534871661376] (n = 222) (mean = .0900900900900901)
Bin #30: (.0539534871661376,.055813952240832] (n = 503) (mean = .121272365805169)
```

```
Bin #31: (.055813952240832,.0576744173155264] (n = 576) (mean = .1128472222222222)
Bin #32: (.0576744173155264,.0595348823902208] (n = 648) (mean = .1219135802469136)
Bin #33: (.0595348823902208,.0613953474649152] (n = 786) (mean = .0928753180661578)
Bin #34: (.0613953474649152,.0632558125396096] (n = 908) (mean = .1013215859030837)
Bin #35: (.0632558125396096,.065116277614304] (n = 935) (mean = .0855614973262032)
Bin #36: (.065116277614304,.0669767426889984] (n = 508) (mean = .1062992125984252)
Bin #37: (.0669767426889984,.0688372077636928] (n = 1124) (mean = .099644128113879)
Bin #38: (.0688372077636928,.0706976728383872] (n = 1276) (mean = .085423197492163)
Bin #39: (.0706976728383872,.0725581379130816] (n = 1421) (mean =
.0950035186488389)
Bin #40: (.0725581379130816,.074418602987776] (n = 1534) (mean = .0808344198174707)
Bin #41: (.074418602987776,.0762790680624704] (n = 1661) (mean = .0854906682721252)
Bin \#42: (.0762790680624704,.0781395331371648] (n = 1759) (mean =
.0938032973280273)
Bin \#43: (.0781395331371648,.0799999982118607] (n = 1882) (mean =
.0887353878852285)
Bin #1: [.08,.0870961538644937] (n = 7516) (mean = .0875465673230442)
Bin #2: (.0870961538644937,.0941923077289874] (n = 8836) (mean = .0907650520597555)
Bin #3: (.0941923077289874,.1012884615934811] (n = 9669) (mean = .0882200848071155)
Bin #4: (.1012884615934811,.1083846154579748] (n = 10403) (mean =
.1001634143996924)
Bin #5: (.1083846154579748,.1154807693224685] (n = 10849) (mean =
.1065535994100839)
Bin #6: (.1154807693224685,.1225769231869622] (n = 11032) (mean =
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Bin #7: (.1225769231869622,.1296730770514559] (n = 11176) (mean =
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Bin #8: (.1296730770514559,.1367692309159496] (n = 11318) (mean =
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Bin #9: (.1367692309159496,.1438653847804433] (n = 11281) (mean =
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Bin #10: (.1438653847804433,.150961538644937] (n = 11104) (mean =
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Bin #11: (.150961538644937,.1580576925094307] (n = 11942) (mean =
.1493049740411991)
Bin #12: (.1580576925094307, .1651538463739244] (n = 9820) (mean =
.1646639511201629)
Bin #13: (.1651538463739244,.1722500002384181] (n = 9268) (mean =
.1733923176521364)
Bin \#14: (.1722500002384181,.1793461541029118] (n = 8405) (mean =
.1760856632956573)
Bin \#15: (.1793461541029118,.1864423079674055] (n = 7425) (mean =
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Bin #16: (.1864423079674055,.1935384618318992] (n = 6904) (mean =
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Bin \#17: (.1935384618318992,.2006346156963929] (n = 5882) (mean =
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Bin #18: (.2006346156963929,.2077307695608866] (n = 5054) (mean =
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Bin \#19: (.2077307695608866,.2148269234253803] (n = 4234) (mean =
```

```
.2179971658006613)
Bin #20: (.2148269234253803,.221923077289874] (n = 3642) (mean = .2342119714442614)
Bin #21: (.221923077289874,.2290192311543677] (n = 3441) (mean = .2441150828247602)
Bin \#22: (.2290192311543677,.2361153850188614] (n = 2402) (mean =
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Bin #23: (.2361153850188614,.2432115388833551] (n = 1976) (mean =
.2317813765182186)
Bin \#24: (.2432115388833551,.2503076927478488] (n = 1584) (mean =
.2588383838383838)
Bin #25: (.2503076927478488,.2574038466123425] (n = 1313) (mean =
.2871287128712871)
Bin \#26: (.2574038466123425,.2645000004768362] (n = 1075) (mean =
.2548837209302325)
Bin #27: (.2645000004768362,.2715961543413299] (n = 789) (mean = .2674271229404309)
Bin #28: (.2715961543413299,.2786923082058236] (n = 664) (mean = .2981927710843373)
Bin #29: (.2786923082058236,.2857884620703173] (n = 530) (mean = .2773584905660377)
Bin #30: (.2857884620703173,.292884615934811] (n = 425) (mean = .3152941176470588)
Bin #31: (.292884615934811,.2999807697993047] (n = 348) (mean = .3448275862068966)
Bin #32: (.2999807697993047,.3070769236637984] (n = 303) (mean = .3102310231023102)
Bin #33: (.3070769236637984,.3141730775282921] (n = 223) (mean = .2780269058295964)
Bin #34: (.3141730775282921,.3212692313927858] (n = 170) (mean = .3352941176470588)
Bin #35: (.3212692313927858,.3283653852572795] (n = 133) (mean = .2706766917293233)
Bin #36: (.3283653852572795,.3354615391217732] (n = 90) (mean = .311111111111111)
Bin #37: (.3354615391217732,.3425576929862669] (n = 102) (mean = .3431372549019608)
Bin #38: (.3425576929862669,.3496538468507606] (n = 75) (mean = .266666666666667)
Bin #39: (.3496538468507606,.3567500007152543] (n = 41) (mean = .5365853658536586)
Bin #40: (.3567500007152543,.363846154579748] (n = 30) (mean = .3666666666666666)
Bin #41: (.363846154579748,.3709423084442417] (n = 17) (mean = .1764705882352941)
Bin #42: (.3709423084442417,.3780384623087354] (n = 19) (mean = .3684210526315789)
Bin #43: (.3780384623087354,.3851346161732291] (n = 20) (mean = .15)
Bin \#44: (.3851346161732291,.3922307700377228] (n = 4) (mean = .25)
Bin \#45: (.3922307700377228,.3993269239022165] (n = 5) (mean = .8)
Bin #46: (.3993269239022165,.4064230777667102] (n = 3) (mean = 0)
Bin \#47: (.4064230777667102,.4135192316312039] (n = 2) (mean = .5)
Bin #48: (.4135192316312039,.4206153854956976] (n = 1) (mean = 1)
Bin #49: (.4206153854956976,.4277115393601913] (n = 1) (mean = 1)
Bin #50: (.4277115393601913,.434807693224685] (n = 0) (mean = .)
Bin #51: (.434807693224685,.4419038470891787] (n = 1) (mean = 0)
Bin #52: (.4419038470891787,.4490000009536743] (n = 1) (mean = 1)
```

. cmogram male bac1, cut(0.08) scatter line(0.08) lfit



Plotting mean of male, conditional on bac1.

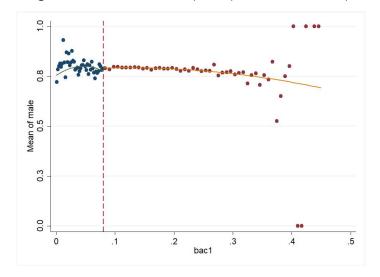
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n = 214558
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Bin #1: [0,.0018604650746944] (n = 1747) (mean = .7218088151116199)
Bin #2: (.0018604650746944,.0037209301493888] (n = 430) (mean = .7837209302325582)
Bin #3: (.0037209301493888,.0055813952240832] (n = 205) (mean = .8)
Bin #4: (.0055813952240832,.0074418602987776] (n = 113) (mean = .8141592920353983)
Bin #5: (.0074418602987776,.009302325373472] (n = 123) (mean = .7967479674796748)
Bin #6: (.009302325373472,.0111627904481664] (n = 118) (mean = .8135593220338984)
Bin #7: (.0111627904481664,.0130232555228608] (n = 116) (mean = .9310344827586207)
Bin #8: (.0130232555228608,.0148837205975552] (n = 66) (mean = .81818181818182)
Bin #9: (.0148837205975552,.0167441856722496] (n = 110) (mean = .7454545454545455)
Bin #10: (.0167441856722496,.018604650746944] (n = 139) (mean = .8705035971223022)
Bin #11: (.018604650746944,.0204651158216384] (n = 129) (mean = .8217054263565892)
Bin #12: (.0204651158216384,.0223255808963328] (n = 126) (mean = .8650793650793651)
Bin #13: (.0223255808963328,.0241860459710272] (n = 153) (mean = .803921568627451)
Bin #14: (.0241860459710272,.0260465110457216] (n = 171) (mean = .8187134502923976)
Bin #15: (.0260465110457216,.027906976120416] (n = 90) (mean = .877777777777778)
Bin #16: (.027906976120416,.0297674411951104] (n = 175) (mean = .8285714285714286)
Bin #17: (.0297674411951104,.0316279062698048] (n = 203) (mean = .8226600985221675)
Bin #18: (.0316279062698048,.0334883713444992] (n = 208) (mean = .7836538461538462)
Bin #19: (.0334883713444992,.0353488364191936] (n = 212) (mean = .7877358490566038)
Bin #20: (.0353488364191936,.037209301493888] (n = 222) (mean = .7927927927928)
Bin #21: (.037209301493888,.0390697665685824] (n = 218) (mean = .7568807339449541)
Bin #22: (.0390697665685824,.0409302316432768] (n = 111) (mean = .7747747747747747)
Bin #23: (.0409302316432768,.0427906967179712] (n = 280) (mean = .7892857142857143)
Bin #24: (.0427906967179712,.0446511617926656] (n = 297) (mean = .8047138047138047)
Bin #25: (.0446511617926656,.04651162686736] (n = 309) (mean = .8058252427184466)
Bin #26: (.04651162686736,.0483720919420544] (n = 365) (mean = .8301369863013699)
Bin #27: (.0483720919420544,.0502325570167488] (n = 379) (mean = .7994722955145118)
Bin #28: (.0502325570167488,.0520930220914432] (n = 452) (mean = .7809734513274337)
Bin #29: (.0520930220914432,.0539534871661376] (n = 222) (mean = .8108108108108109)
Bin #30: (.0539534871661376,.055813952240832] (n = 503) (mean = .7614314115308151)
Bin #31: (.055813952240832,.0576744173155264] (n = 576) (mean = .8038194444444444)
Bin #32: (.0576744173155264,.0595348823902208] (n = 648) (mean = .7824074074074074)
Bin #33: (.0595348823902208,.0613953474649152] (n = 786) (mean = .8231552162849872)
Bin #34: (.0613953474649152,.0632558125396096] (n = 908) (mean = .7907488986784141)
Bin #35: (.0632558125396096,.065116277614304] (n = 935) (mean = .7679144385026738)
Bin #36: (.065116277614304,.0669767426889984] (n = 508) (mean = .7401574803149607)
Bin #37: (.0669767426889984,.0688372077636928] (n = 1124) (mean =
.7740213523131673)
Bin \#38: (.0688372077636928,.0706976728383872] (n = 1276) (mean =
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.7656739811912225)
Bin \#39: (.0706976728383872,.0725581379130816] (n = 1421) (mean =
.7733990147783252)
Bin #40: (.0725581379130816,.074418602987776] (n = 1534) (mean = .8096479791395046)
Bin #41: (.074418602987776,.0762790680624704] (n = 1661) (mean = .8007224563515955)
Bin \#42: (.0762790680624704,.0781395331371648] (n = 1759) (mean =
.7805571347356453)
Bin \#43: (.0781395331371648,.0799999982118607] (n = 1882) (mean =
.7885228480340064)
Bin #1: [.08,.0870961538644937] (n = 7516) (mean = .7904470463012241)
Bin #2: (.0870961538644937,.0941923077289874] (n = 8836) (mean = .784857401539158)
Bin #3: (.0941923077289874,.1012884615934811] (n = 9669) (mean = .797807425793774)
Bin #4: (.1012884615934811,.1083846154579748] (n = 10403) (mean =
.7977506488512929)
Bin #5: (.1083846154579748,.1154807693224685] (n = 10849) (mean =
.7935293575444742)
Bin #6: (.1154807693224685,.1225769231869622] (n = 11032) (mean =
.7933284989122552)
Bin #7: (.1225769231869622,.1296730770514559] (n = 11176) (mean =
.7934860415175375)
Bin #8: (.1296730770514559,.1367692309159496] (n = 11318) (mean =
.7950167874182718)
Bin #9: (.1367692309159496,.1438653847804433] (n = 11281) (mean =
.7931034482758621)
Bin #10: (.1438653847804433,.150961538644937] (n = 11104) (mean = .788364553314121)
Bin #11: (.150961538644937, .1580576925094307] (n = 11942) (mean =
.7924133311003182)
Bin #12: (.1580576925094307, .1651538463739244) (n = 9820) (mean =
.7831975560081467)
Bin #13: (.1651538463739244,.1722500002384181] (n = 9268) (mean =
.7898144151920588)
Bin #14: (.1722500002384181,.1793461541029118] (n = 8405) (mean = .792266508030934)
Bin \#15: (.1793461541029118,.1864423079674055] (n = 7425) (mean =
.7886868686868687)
Bin #16: (.1864423079674055,.1935384618318992] (n = 6904) (mean =
.7875144843568945)
Bin \#17: (.1935384618318992,.2006346156963929] (n = 5882) (mean =
.7927575654539273)
Bin #18: (.2006346156963929,.2077307695608866] (n = 5054) (mean =
.7872971903442818)
Bin \#19: (.2077307695608866,.2148269234253803] (n = 4234) (mean =
.7777515351913085)
Bin #20: (.2148269234253803,.221923077289874] (n = 3642) (mean = .7847336628226249)
Bin #21: (.221923077289874,.2290192311543677] (n = 3441) (mean = .7776809067131648)
Bin #22: (.2290192311543677,.2361153850188614] (n = 2402) (mean =
.7922564529558701)
Bin \#23: (.2361153850188614,.2432115388833551] (n = 1976) (mean =
.7844129554655871)
Bin \#24: (.2432115388833551,.2503076927478488] (n = 1584) (mean =
.7752525252525253)
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Bin #25: (.2503076927478488,.2574038466123425] (n = 1313) (mean =
.7783701447067783)
Bin #26: (.2574038466123425,.2645000004768362] (n = 1075) (mean =
.7776744186046511)
Bin #27: (.2645000004768362,.2715961543413299] (n = 789) (mean = .8073510773130546)
Bin #28: (.2715961543413299,.2786923082058236] (n = 664) (mean = .7545180722891566)
Bin #29: (.2786923082058236,.2857884620703173] (n = 530) (mean = .7679245283018868)
Bin #30: (.2857884620703173,.292884615934811] (n = 425) (mean = .7694117647058824)
Bin #31: (.292884615934811,.2999807697993047] (n = 348) (mean = .7758620689655172)
Bin #32: (.2999807697993047,.3070769236637984] (n = 303) (mean = .7590759075907591)
Bin #33: (.3070769236637984,.3141730775282921] (n = 223) (mean = .7668161434977578)
Bin #34: (.3141730775282921,.3212692313927858] (n = 170) (mean = .7705882352941177)
Bin #35: (.3212692313927858,.3283653852572795] (n = 133) (mean = .7142857142857143)
Bin #36: (.3283653852572795,.3354615391217732] (n = 90) (mean = .7555555555555555)
Bin #37: (.3354615391217732,.3425576929862669] (n = 102) (mean = .7647058823529411)
Bin #38: (.3425576929862669,.3496538468507606] (n = 75) (mean = .7066666666666667)
Bin #39: (.3496538468507606,.3567500007152543] (n = 41) (mean = .7560975609756098)
Bin #40: (.3567500007152543,.363846154579748] (n = 30) (mean = .7333333333333333)
Bin #41: (.363846154579748,.3709423084442417] (n = 17) (mean = .8235294117647058)
Bin #42: (.3709423084442417,.3780384623087354] (n = 19) (mean = .5263157894736842)
Bin #43: (.3780384623087354,.3851346161732291] (n = 20) (mean = .65)
Bin \#44: (.3851346161732291,.3922307700377228] (n = 4) (mean = .75)
Bin #45: (.3922307700377228,.3993269239022165] (n = 5) (mean = .8)
Bin #46: (.3993269239022165,.4064230777667102] (n = 3) (mean = 1)
Bin #47: (.4064230777667102, .4135192316312039] (n = 2) (mean = 0)
Bin #48: (.4135192316312039,.4206153854956976] (n = 1) (mean = 0)
Bin #49: (.4206153854956976,.4277115393601913] (n = 1) (mean = 1)
Bin #50: (.4277115393601913,.434807693224685] (n = 0) (mean = .)
Bin #51: (.434807693224685,.4419038470891787] (n = 1) (mean = 1)
Bin #52: (.4419038470891787,.4490000009536743] (n = 1) (mean = 1)
```

. cmogram male bac1, cut(0.08) scatter line(0.08) qfit



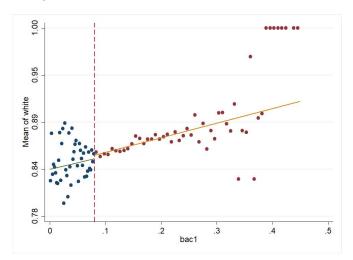
Plotting mean of male, conditional on bac1.

```
Bin #1: [0,.0018604650746944] (n = 1747) (mean = .7218088151116199)
Bin #2: (.0018604650746944,.0037209301493888] (n = 430) (mean = .7837209302325582)
Bin #3: (.0037209301493888,.0055813952240832] (n = 205) (mean = .8)
Bin #4: (.0055813952240832,.0074418602987776] (n = 113) (mean = .8141592920353983)
Bin #5: (.0074418602987776,.009302325373472] (n = 123) (mean = .7967479674796748)
Bin #6: (.009302325373472,.0111627904481664] (n = 118) (mean = .8135593220338984)
Bin #7: (.0111627904481664,.0130232555228608] (n = 116) (mean = .9310344827586207)
Bin #8: (.0130232555228608,.0148837205975552] (n = 66) (mean = .81818181818182)
Bin #9: (.0148837205975552,.0167441856722496] (n = 110) (mean = .7454545454545455)
Bin #10: (.0167441856722496,.018604650746944] (n = 139) (mean = .8705035971223022)
Bin #11: (.018604650746944,.0204651158216384] (n = 129) (mean = .8217054263565892)
Bin #12: (.0204651158216384,.0223255808963328] (n = 126) (mean = .8650793650793651)
Bin #13: (.0223255808963328,.0241860459710272] (n = 153) (mean = .803921568627451)
Bin #14: (.0241860459710272,.0260465110457216] (n = 171) (mean = .8187134502923976)
Bin #15: (.0260465110457216,.027906976120416] (n = 90) (mean = .87777777777778)
Bin #16: (.027906976120416,.0297674411951104] (n = 175) (mean = .8285714285714286)
Bin #17: (.0297674411951104,.0316279062698048] (n = 203) (mean = .8226600985221675)
Bin #18: (.0316279062698048,.0334883713444992] (n = 208) (mean = .7836538461538462)
Bin #19: (.0334883713444992,.0353488364191936] (n = 212) (mean = .7877358490566038)
Bin #20: (.0353488364191936,.037209301493888] (n = 222) (mean = .7927927927928)
Bin #21: (.037209301493888,.0390697665685824] (n = 218) (mean = .7568807339449541)
Bin #22: (.0390697665685824,.0409302316432768] (n = 111) (mean = .7747747747747747)
Bin #23: (.0409302316432768,.0427906967179712] (n = 280) (mean = .7892857142857143)
Bin #24: (.0427906967179712,.0446511617926656] (n = 297) (mean = .8047138047138047)
Bin #25: (.0446511617926656,.04651162686736] (n = 309) (mean = .8058252427184466)
Bin #26: (.04651162686736,.0483720919420544] (n = 365) (mean = .8301369863013699)
Bin #27: (.0483720919420544,.0502325570167488] (n = 379) (mean = .7994722955145118)
Bin #28: (.0502325570167488,.0520930220914432] (n = 452) (mean = .7809734513274337)
Bin #29: (.0520930220914432,.0539534871661376] (n = 222) (mean = .8108108108108109)
Bin #30: (.0539534871661376,.055813952240832] (n = 503) (mean = .7614314115308151)
Bin #31: (.055813952240832,.0576744173155264] (n = 576) (mean = .8038194444444444)
Bin #32: (.0576744173155264,.0595348823902208] (n = 648) (mean = .7824074074074074)
Bin #33: (.0595348823902208,.0613953474649152] (n = 786) (mean = .8231552162849872)
Bin #34: (.0613953474649152,.0632558125396096] (n = 908) (mean = .7907488986784141)
Bin #35: (.0632558125396096,.065116277614304] (n = 935) (mean = .7679144385026738)
Bin #36: (.065116277614304,.0669767426889984] (n = 508) (mean = .7401574803149607)
Bin #37: (.0669767426889984,.0688372077636928] (n = 1124) (mean =
.7740213523131673)
Bin #38: (.0688372077636928,.0706976728383872] (n = 1276) (mean =
.7656739811912225)
Bin \#39: (.0706976728383872,.0725581379130816] (n = 1421) (mean =
.7733990147783252)
Bin #40: (.0725581379130816,.074418602987776] (n = 1534) (mean = .8096479791395046)
Bin #41: (.074418602987776,.0762790680624704] (n = 1661) (mean = .8007224563515955)
Bin #42: (.0762790680624704,.0781395331371648] (n = 1759) (mean =
.7805571347356453)
Bin \#43: (.0781395331371648,.0799999982118607] (n = 1882) (mean =
.7885228480340064)
```

```
Bin #1: [.08,.0870961538644937] (n = 7516) (mean = .7904470463012241)
Bin #2: (.0870961538644937,.0941923077289874] (n = 8836) (mean = .784857401539158)
Bin #3: (.0941923077289874,.1012884615934811] (n = 9669) (mean = .797807425793774)
Bin #4: (.1012884615934811,.1083846154579748] (n = 10403) (mean =
.7977506488512929)
Bin #5: (.1083846154579748,.1154807693224685] (n = 10849) (mean =
.7935293575444742)
Bin \#6: (.1154807693224685,.1225769231869622] (n = 11032) (mean =
.7933284989122552)
Bin #7: (.1225769231869622,.1296730770514559] (n = 11176) (mean =
.7934860415175375)
Bin #8: (.1296730770514559,.1367692309159496] (n = 11318) (mean =
.7950167874182718)
Bin #9: (.1367692309159496,.1438653847804433] (n = 11281) (mean =
.7931034482758621)
Bin #10: (.1438653847804433,.150961538644937] (n = 11104) (mean = .788364553314121)
Bin #11: (.150961538644937, .1580576925094307] (n = 11942) (mean =
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Bin \#12: (.1580576925094307,.1651538463739244] (n = 9820) (mean =
.7831975560081467)
Bin #13: (.1651538463739244,.1722500002384181] (n = 9268) (mean =
.7898144151920588)
Bin #14: (.1722500002384181,.1793461541029118] (n = 8405) (mean = .792266508030934)
Bin #15: (.1793461541029118, .1864423079674055] (n = 7425) (mean =
.7886868686868687)
Bin \#16: (.1864423079674055,.1935384618318992] (n = 6904) (mean =
.7875144843568945)
Bin #17: (.1935384618318992,.2006346156963929] (n = 5882) (mean =
.7927575654539273)
Bin #18: (.2006346156963929,.2077307695608866] (n = 5054) (mean =
.7872971903442818)
Bin #19: (.2077307695608866, .2148269234253803] (n = 4234) (mean =
.7777515351913085)
Bin #20: (.2148269234253803,.221923077289874] (n = 3642) (mean = .7847336628226249)
Bin #21: (.221923077289874,.2290192311543677] (n = 3441) (mean = .7776809067131648)
Bin #22: (.2290192311543677,.2361153850188614] (n = 2402) (mean =
.7922564529558701)
Bin \#23: (.2361153850188614,.2432115388833551] (n = 1976) (mean =
.7844129554655871)
Bin \#24: (.2432115388833551,.2503076927478488] (n = 1584) (mean =
.7752525252525253)
Bin \#25: (.2503076927478488,.2574038466123425] (n = 1313) (mean =
.7783701447067783)
Bin \#26: (.2574038466123425,.2645000004768362] (n = 1075) (mean =
.7776744186046511)
Bin #27: (.2645000004768362,.2715961543413299] (n = 789) (mean = .8073510773130546)
Bin #28: (.2715961543413299,.2786923082058236] (n = 664) (mean = .7545180722891566)
Bin #29: (.2786923082058236,.2857884620703173] (n = 530) (mean = .7679245283018868)
Bin #30: (.2857884620703173,.292884615934811] (n = 425) (mean = .7694117647058824)
Bin #31: (.292884615934811,.2999807697993047] (n = 348) (mean = .7758620689655172)
```

```
Bin #32: (.2999807697993047,.3070769236637984] (n = 303) (mean = .7590759075907591)
Bin #33: (.3070769236637984,.3141730775282921] (n = 223) (mean = .7668161434977578)
Bin #34: (.3141730775282921,.3212692313927858] (n = 170) (mean = .7705882352941177)
Bin #35: (.3212692313927858,.3283653852572795] (n = 133) (mean = .7142857142857143)
Bin #36: (.3283653852572795,.3354615391217732] (n = 90) (mean = .7555555555555555)
Bin #37: (.3354615391217732,.3425576929862669] (n = 102) (mean = .7647058823529411)
Bin #38: (.3425576929862669,.3496538468507606] (n = 75) (mean = .706666666666667)
Bin #39: (.3496538468507606,.3567500007152543] (n = 41) (mean = .7560975609756098)
Bin #40: (.3567500007152543,.363846154579748] (n = 30) (mean = .7333333333333333)
Bin #41: (.363846154579748,.3709423084442417] (n = 17) (mean = .8235294117647058)
Bin #42: (.3709423084442417,.3780384623087354] (n = 19) (mean = .5263157894736842)
Bin #43: (.3780384623087354,.3851346161732291] (n = 20) (mean = .65)
Bin #44: (.3851346161732291,.3922307700377228] (n = 4) (mean = .75)
Bin #45: (.3922307700377228,.3993269239022165] (n = 5) (mean = .8)
Bin #46: (.3993269239022165,.4064230777667102] (n = 3) (mean = 1)
Bin #47: (.4064230777667102,.4135192316312039] (n = 2) (mean = 0)
Bin #48: (.4135192316312039,.4206153854956976] (n = 1) (mean = 0)
Bin #49: (.4206153854956976,.4277115393601913] (n = 1) (mean = 1)
Bin #50: (.4277115393601913,.434807693224685] (n = 0) (mean = .)
Bin #51: (.434807693224685,.4419038470891787] (n = 1) (mean = 1)
Bin \#52: (.4419038470891787,.4490000009536743] (n = 1) (mean = 1)
```

. cmogram white bac1, cut(0.08) scatter line(0.08) lfit



Plotting mean of white, conditional on bac1.

```
n = 214558
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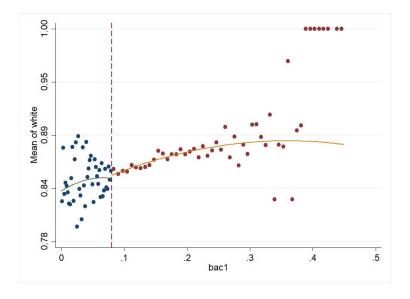
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Bin #1: [0,.0018604650746944] (n = 1747) (mean = .8214081282198054)
Bin #2: (.0018604650746944,.0037209301493888] (n = 430) (mean = .8767441860465116)
Bin #3: (.0037209301493888,.0055813952240832] (n = 205) (mean = .8292682926829268)
Bin #4: (.0055813952240832,.0074418602987776] (n = 113) (mean = .8407079646017699)
Bin #5: (.0074418602987776,.009302325373472] (n = 123) (mean = .8373983739837398)
Bin #6: (.009302325373472,.0111627904481664] (n = 118) (mean = .8305084745762712)
```

```
Bin #7: (.0111627904481664,.0130232555228608] (n = 116) (mean = .8189655172413793)
Bin #8: (.0130232555228608,.0148837205975552] (n = 66) (mean = .81818181818182)
Bin #9: (.0148837205975552,.0167441856722496] (n = 110) (mean = .845454545454555)
Bin #10: (.0167441856722496,.018604650746944] (n = 139) (mean = .8776978417266187)
Bin #11: (.018604650746944,.0204651158216384] (n = 129) (mean = .8217054263565892)
Bin #12: (.0204651158216384,.0223255808963328] (n = 126) (mean = .8650793650793651)
Bin #13: (.0223255808963328,.0241860459710272] (n = 153) (mean = .8823529411764706)
Bin #14: (.0241860459710272,.0260465110457216] (n = 171) (mean = .7953216374269005)
Bin #16: (.027906976120416,.0297674411951104] (n = 175) (mean = .8342857142857143)
Bin #17: (.0297674411951104,.0316279062698048] (n = 203) (mean = .8275862068965517)
Bin #18: (.0316279062698048,.0334883713444992] (n = 208) (mean = .8028846153846154)
Bin #19: (.0334883713444992,.0353488364191936] (n = 212) (mean = .8773584905660378)
Bin #20: (.0353488364191936,.037209301493888] (n = 222) (mean = .8378378378378378)
Bin #21: (.037209301493888,.0390697665685824] (n = 218) (mean = .8165137614678899)
Bin #22: (.0390697665685824,.0409302316432768] (n = 111) (mean = .8828828828828829)
Bin #23: (.0409302316432768,.0427906967179712] (n = 280) (mean = .8464285714285714)
Bin #24: (.0427906967179712,.0446511617926656] (n = 297) (mean = .8552188552188552)
Bin #25: (.0446511617926656,.04651162686736] (n = 309) (mean = .8640776699029126)
Bin #26: (.04651162686736,.0483720919420544] (n = 365) (mean = .8684931506849315)
Bin #27: (.0483720919420544,.0502325570167488] (n = 379) (mean = .8390501319261213)
Bin #28: (.0502325570167488,.0520930220914432] (n = 452) (mean = .8207964601769912)
Bin #29: (.0520930220914432,.0539534871661376] (n = 222) (mean = .8648648648649649)
Bin #30: (.0539534871661376,.055813952240832] (n = 503) (mean = .856858846918489)
Bin #31: (.055813952240832,.0576744173155264] (n = 576) (mean = .847222222222222)
Bin #32: (.0576744173155264,.0595348823902208] (n = 648) (mean = .8395061728395061)
Bin #33: (.0595348823902208,.0613953474649152] (n = 786) (mean = .8536895674300254)
Bin #34: (.0613953474649152,.0632558125396096] (n = 908) (mean = .8259911894273128)
Bin #35: (.0632558125396096,.065116277614304] (n = 935) (mean = .8609625668449198)
Bin #36: (.065116277614304,.0669767426889984] (n = 508) (mean = .8267716535433071)
Bin #37: (.0669767426889984,.0688372077636928] (n = 1124) (mean =
.8327402135231317)
Bin #38: (.0688372077636928,.0706976728383872] (n = 1276) (mean =
.8550156739811913)
Bin \#39: (.0706976728383872,.0725581379130816] (n = 1421) (mean =
.8360309641097818)
Bin #40: (.0725581379130816,.074418602987776] (n = 1534) (mean = .834419817470665)
Bin #41: (.074418602987776,.0762790680624704] (n = 1661) (mean = .8573148705599036)
Bin \#42: (.0762790680624704,.0781395331371648] (n = 1759) (mean =
.8436611711199545)
Bin #43: (.0781395331371648,.0799999982118607] (n = 1882) (mean =
.8528161530286929)
Bin #1: [.08,.0870961538644937] (n = 7516) (mean = .854843001596594)
Bin #2: (.0870961538644937,.0941923077289874] (n = 8836) (mean = .8499320959710276)
Bin #3: (.0941923077289874,.1012884615934811] (n = 9669) (mean = .8531388975074982)
Bin #4: (.1012884615934811,.1083846154579748] (n = 10403) (mean =
.8521580313371143)
Bin #5: (.1083846154579748,.1154807693224685] (n = 10849) (mean =
.8591575260392663)
Bin #6: (.1154807693224685,.1225769231869622) (n = 11032) (mean =
```

```
.8564176939811458)
Bin #7: (.1225769231869622,.1296730770514559] (n = 11176) (mean = .85567287043665)
Bin #8: (.1296730770514559,.1367692309159496] (n = 11318) (mean =
.8571302350238558)
Bin #9: (.1367692309159496,.1438653847804433] (n = 11281) (mean =
.8589664036876163)
Bin \#10: (.1438653847804433,.150961538644937] (n = 11104) (mean =
.8646433717579251)
Bin #11: (.150961538644937,.1580576925094307] (n = 11942) (mean =
.8737229944732876)
Bin \#12: (.1580576925094307,.1651538463739244] (n = 9820) (mean =
.8707739307535641)
Bin #13: (.1651538463739244,.1722500002384181] (n = 9268) (mean =
.8650194216659474)
Bin \#14: (.1722500002384181,.1793461541029118] (n = 8405) (mean =
.8703152885187389)
Bin #15: (.1793461541029118, .1864423079674055] (n = 7425) (mean =
.8703030303030304)
Bin #16: (.1864423079674055,.1935384618318992] (n = 6904) (mean =
.8752896871378911)
Bin #17: (.1935384618318992,.2006346156963929] (n = 5882) (mean = .870282216933016)
Bin #18: (.2006346156963929,.2077307695608866] (n = 5054) (mean = .872774040364068)
Bin #19: (.2077307695608866, .2148269234253803) (n = 4234) (mean =
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Bin #20: (.2148269234253803,.221923077289874] (n = 3642) (mean = .8671059857221307)
Bin #21: (.221923077289874,.2290192311543677] (n = 3441) (mean = .8785236849752979)
Bin #22: (.2290192311543677,.2361153850188614] (n = 2402) (mean =
.8684429641965029)
Bin \#23: (.2361153850188614,.2432115388833551] (n = 1976) (mean =
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Bin #24: (.2432115388833551,.2503076927478488] (n = 1584) (mean =
.8825757575757576)
Bin #25: (.2503076927478488,.2574038466123425] (n = 1313) (mean =
.8750952018278752)
Bin \#26: (.2574038466123425,.2645000004768362] (n = 1075) (mean =
.8986046511627907)
Bin #27: (.2645000004768362,.2715961543413299] (n = 789) (mean = .8669201520912547)
Bin #28: (.2715961543413299,.2786923082058236] (n = 664) (mean = .8885542168674698)
Bin #29: (.2786923082058236,.2857884620703173] (n = 530) (mean = .8584905660377359)
Bin #30: (.2857884620703173,.292884615934811] (n = 425) (mean = .88)
Bin #31: (.292884615934811,.2999807697993047] (n = 348) (mean = .8706896551724138)
Bin #32: (.2999807697993047,.3070769236637984] (n = 303) (mean = .900990099009901)
Bin #33: (.3070769236637984,.3141730775282921] (n = 223) (mean = .9013452914798207)
Bin #34: (.3141730775282921,.3212692313927858] (n = 170) (mean = .888235294117647)
Bin #35: (.3212692313927858,.3283653852572795] (n = 133) (mean = .8796992481203008)
Bin #36: (.3283653852572795,.3354615391217732] (n = 90) (mean = .911111111111111)
Bin #37: (.3354615391217732,.3425576929862669] (n = 102) (mean = .8235294117647058)
Bin #38: (.3425576929862669,.3496538468507606] (n = 75) (mean = .88)
Bin #39: (.3496538468507606,.3567500007152543] (n = 41) (mean = .8780487804878049)
Bin #40: (.3567500007152543,.363846154579748] (n = 30) (mean = .9666666666666667)
```

```
Bin #41: (.363846154579748,.3709423084442417] (n = 17) (mean = .8235294117647058)
Bin #42: (.3709423084442417,.3780384623087354] (n = 19) (mean = .8947368421052632)
Bin #43: (.3780384623087354,.3851346161732291] (n = 20) (mean = .9)
Bin #44: (.3851346161732291,.3922307700377228] (n = 4) (mean = 1)
Bin #45: (.3922307700377228,.3993269239022165] (n = 5) (mean = 1)
Bin #46: (.3993269239022165,.4064230777667102] (n = 3) (mean = 1)
Bin #47: (.4064230777667102,.4135192316312039] (n = 2) (mean = 1)
Bin #48: (.4135192316312039,.4206153854956976] (n = 1) (mean = 1)
Bin #49: (.4206153854956976,.4277115393601913] (n = 1) (mean = 1)
Bin #50: (.4277115393601913,.434807693224685] (n = 0) (mean = .)
Bin #51: (.434807693224685,.4419038470891787] (n = 1) (mean = 1)
Bin #52: (.4419038470891787,.4490000009536743] (n = 1) (mean = 1)
```

. cmogram white bac1, cut(0.08) scatter line(0.08) qfit



Plotting mean of white, conditional on bac1.

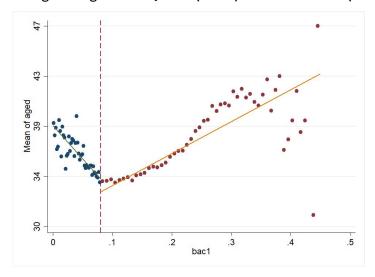
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Bin #1: [0,.0018604650746944] (n = 1747) (mean = .8214081282198054)
Bin #2: (.0018604650746944,.0037209301493888] (n = 430) (mean = .8767441860465116)
Bin #3: (.0037209301493888,.0055813952240832] (n = 205) (mean = .8292682926829268)
Bin #4: (.0055813952240832,.0074418602987776] (n = 113) (mean = .8407079646017699)
Bin #5: (.0074418602987776,.009302325373472] (n = 123) (mean = .8373983739837398)
Bin #6: (.009302325373472,.0111627904481664] (n = 118) (mean = .8305084745762712)
Bin #7: (.0111627904481664,.0130232555228608] (n = 116) (mean = .8189655172413793)
Bin #8: (.0130232555228608,.0148837205975552] (n = 66) (mean = .8181818181818182)
Bin #9: (.0148837205975552,.0167441856722496] (n = 110) (mean = .8454545454545455)
Bin #10: (.0167441856722496,.018604650746944] (n = 139) (mean = .8776978417266187)
Bin #11: (.018604650746944,.0204651158216384] (n = 129) (mean = .8217054263565892)
Bin #12: (.0204651158216384,.0223255808963328] (n = 126) (mean = .8650793650793651)
Bin #13: (.0223255808963328,.0241860459710272] (n = 153) (mean = .8823529411764706)
Bin #14: (.0241860459710272,.0260465110457216] (n = 171) (mean = .7953216374269005)
```

```
Bin #16: (.027906976120416,.0297674411951104] (n = 175) (mean = .8342857142857143)
Bin #17: (.0297674411951104,.0316279062698048] (n = 203) (mean = .8275862068965517)
Bin #18: (.0316279062698048,.0334883713444992] (n = 208) (mean = .8028846153846154)
Bin #19: (.0334883713444992,.0353488364191936] (n = 212) (mean = .8773584905660378)
Bin #20: (.0353488364191936,.037209301493888] (n = 222) (mean = .8378378378378378)
Bin #21: (.037209301493888,.0390697665685824] (n = 218) (mean = .8165137614678899)
Bin #22: (.0390697665685824,.0409302316432768] (n = 111) (mean = .8828828828828829)
Bin #23: (.0409302316432768,.0427906967179712] (n = 280) (mean = .8464285714285714)
Bin #24: (.0427906967179712,.0446511617926656] (n = 297) (mean = .8552188552188552)
Bin #25: (.0446511617926656,.04651162686736] (n = 309) (mean = .8640776699029126)
Bin #26: (.04651162686736,.0483720919420544] (n = 365) (mean = .8684931506849315)
Bin #27: (.0483720919420544,.0502325570167488] (n = 379) (mean = .8390501319261213)
Bin #28: (.0502325570167488,.0520930220914432] (n = 452) (mean = .8207964601769912)
Bin #29: (.0520930220914432,.0539534871661376] (n = 222) (mean = .8648648648648649)
Bin #30: (.0539534871661376,.055813952240832] (n = 503) (mean = .856858846918489)
Bin #31: (.055813952240832,.0576744173155264] (n = 576) (mean = .847222222222222)
Bin #32: (.0576744173155264,.0595348823902208] (n = 648) (mean = .8395061728395061)
Bin #33: (.0595348823902208,.0613953474649152] (n = 786) (mean = .8536895674300254)
Bin #34: (.0613953474649152,.0632558125396096] (n = 908) (mean = .8259911894273128)
Bin #35: (.0632558125396096,.065116277614304] (n = 935) (mean = .8609625668449198)
Bin #36: (.065116277614304,.0669767426889984] (n = 508) (mean = .8267716535433071)
Bin \#37: (.0669767426889984,.0688372077636928] (n = 1124) (mean =
.8327402135231317)
Bin \#38: (.0688372077636928,.0706976728383872] (n = 1276) (mean =
.8550156739811913)
Bin \#39: (.0706976728383872,.0725581379130816] (n = 1421) (mean =
.8360309641097818)
Bin #40: (.0725581379130816,.074418602987776] (n = 1534) (mean = .834419817470665)
Bin #41: (.074418602987776,.0762790680624704] (n = 1661) (mean = .8573148705599036)
Bin \#42: (.0762790680624704,.0781395331371648] (n = 1759) (mean =
.8436611711199545)
Bin \#43: (.0781395331371648,.0799999982118607] (n = 1882) (mean =
.8528161530286929)
Bin #1: [.08,.0870961538644937] (n = 7516) (mean = .854843001596594)
Bin #2: (.0870961538644937,.0941923077289874] (n = 8836) (mean = .8499320959710276)
Bin #3: (.0941923077289874,.1012884615934811] (n = 9669) (mean = .8531388975074982)
Bin #4: (.1012884615934811,.1083846154579748] (n = 10403) (mean =
.8521580313371143)
Bin #5: (.1083846154579748,.1154807693224685] (n = 10849) (mean =
.8591575260392663)
Bin #6: (.1154807693224685,.1225769231869622] (n = 11032) (mean =
.8564176939811458)
Bin #7: (.1225769231869622,.1296730770514559] (n = 11176) (mean = .85567287043665)
Bin #8: (.1296730770514559,.1367692309159496] (n = 11318) (mean =
.8571302350238558)
Bin #9: (.1367692309159496,.1438653847804433] (n = 11281) (mean =
.8589664036876163)
Bin #10: (.1438653847804433,.150961538644937] (n = 11104) (mean =
.8646433717579251)
```

```
Bin #11: (.150961538644937,.1580576925094307] (n = 11942) (mean =
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Bin \#12: (.1580576925094307,.1651538463739244] (n = 9820) (mean =
.8707739307535641)
Bin #13: (.1651538463739244,.1722500002384181] (n = 9268) (mean =
.8650194216659474)
Bin \#14: (.1722500002384181,.1793461541029118] (n = 8405) (mean =
.8703152885187389)
Bin #15: (.1793461541029118,.1864423079674055] (n = 7425) (mean =
.8703030303030304)
Bin #16: (.1864423079674055,.1935384618318992] (n = 6904) (mean =
.8752896871378911)
Bin #17: (.1935384618318992,.2006346156963929] (n = 5882) (mean = .870282216933016)
Bin #18: (.2006346156963929,.2077307695608866] (n = 5054) (mean = .872774040364068)
Bin #19: (.2077307695608866, .2148269234253803) (n = 4234) (mean =
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Bin #20: (.2148269234253803,.221923077289874] (n = 3642) (mean = .8671059857221307)
Bin #21: (.221923077289874,.2290192311543677] (n = 3441) (mean = .8785236849752979)
Bin #22: (.2290192311543677,.2361153850188614] (n = 2402) (mean =
.8684429641965029)
Bin \#23: (.2361153850188614,.2432115388833551] (n = 1976) (mean =
.8739878542510121)
Bin \#24: (.2432115388833551,.2503076927478488] (n = 1584) (mean =
.8825757575757576)
Bin \#25: (.2503076927478488,.2574038466123425] (n = 1313) (mean =
.8750952018278752)
Bin \#26: (.2574038466123425,.2645000004768362] (n = 1075) (mean =
.8986046511627907)
Bin #27: (.2645000004768362,.2715961543413299] (n = 789) (mean = .8669201520912547)
Bin #28: (.2715961543413299,.2786923082058236] (n = 664) (mean = .8885542168674698)
Bin #29: (.2786923082058236,.2857884620703173] (n = 530) (mean = .8584905660377359)
Bin #30: (.2857884620703173,.292884615934811] (n = 425) (mean = .88)
Bin #31: (.292884615934811,.2999807697993047] (n = 348) (mean = .8706896551724138)
Bin #32: (.2999807697993047,.3070769236637984] (n = 303) (mean = .900990099009901)
Bin #33: (.3070769236637984,.3141730775282921] (n = 223) (mean = .9013452914798207)
Bin #34: (.3141730775282921,.3212692313927858] (n = 170) (mean = .888235294117647)
Bin #35: (.3212692313927858,.3283653852572795] (n = 133) (mean = .8796992481203008)
Bin #36: (.3283653852572795,.3354615391217732] (n = 90) (mean = .9111111111111111)
Bin #37: (.3354615391217732,.3425576929862669] (n = 102) (mean = .8235294117647058)
Bin #38: (.3425576929862669,.3496538468507606] (n = 75) (mean = .88)
Bin #39: (.3496538468507606,.3567500007152543] (n = 41) (mean = .8780487804878049)
Bin #40: (.3567500007152543,.363846154579748] (n = 30) (mean = .9666666666666667)
Bin #41: (.363846154579748,.3709423084442417] (n = 17) (mean = .8235294117647058)
Bin #42: (.3709423084442417,.3780384623087354] (n = 19) (mean = .8947368421052632)
Bin #43: (.3780384623087354,.3851346161732291] (n = 20) (mean = .9)
Bin #44: (.3851346161732291,.3922307700377228] (n = 4) (mean = 1)
Bin #45: (.3922307700377228,.3993269239022165] (n = 5) (mean = 1)
Bin #46: (.3993269239022165,.4064230777667102] (n = 3) (mean = 1)
Bin #47: (.4064230777667102,.4135192316312039] (n = 2) (mean = 1)
Bin #48: (.4135192316312039,.4206153854956976] (n = 1) (mean = 1)
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Bin #49: (.4206153854956976,.4277115393601913] (n = 1) (mean = 1)
Bin #50: (.4277115393601913,.434807693224685] (n = 0) (mean = .)
Bin #51: (.434807693224685,.4419038470891787] (n = 1) (mean = 1)
Bin #52: (.4419038470891787,.4490000009536743] (n = 1) (mean = 1)
```

. cmogram aged bac1, cut(0.08) scatter line(0.08) lfit



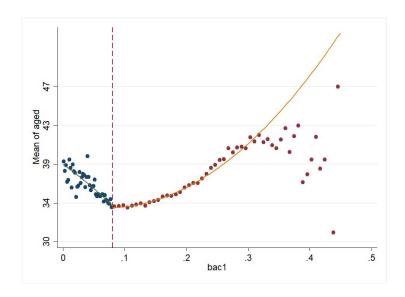
Plotting mean of aged, conditional on bac1.

```
Bin #1: [0,.0018604650746944] (n = 1747) (mean = 38.79107040641099)
Bin #2: (.0018604650746944,.0037209301493888] (n = 430) (mean = 37.74418604651163)
Bin #3: (.0037209301493888,.0055813952240832] (n = 205) (mean = 38.39512195121952)
Bin #4: (.0055813952240832,.0074418602987776] (n = 113) (mean = 36.5575221238938)
Bin #5: (.0074418602987776,.009302325373472] (n = 123) (mean = 36.77235772357724)
Bin #6: (.009302325373472,.0111627904481664] (n = 118) (mean = 39.01694915254237)
Bin #7: (.0111627904481664,.0130232555228608] (n = 116) (mean = 38.11206896551724)
Bin #8: (.0130232555228608,.0148837205975552] (n = 66) (mean = 35.95454545454545)
Bin #9: (.0148837205975552,.0167441856722496] (n = 110) (mean = 38.47272727272728)
Bin #10: (.0167441856722496,.018604650746944] (n = 139) (mean = 37.71942446043165)
Bin #11: (.018604650746944,.0204651158216384] (n = 129) (mean = 37.55038759689923)
Bin #12: (.0204651158216384,.0223255808963328] (n = 126) (mean = 34.90476190476191)
Bin #13: (.0223255808963328,.0241860459710272] (n = 153) (mean = 36.01307189542484)
Bin #14: (.0241860459710272,.0260465110457216] (n = 171) (mean = 36.15204678362573)
Bin #15: (.0260465110457216,.027906976120416] (n = 90) (mean = 37.655555555555556)
Bin #16: (.027906976120416,.0297674411951104] (n = 175) (mean = 36.42285714285714)
Bin #17: (.0297674411951104,.0316279062698048] (n = 203) (mean = 37.07389162561577)
Bin #18: (.0316279062698048,.0334883713444992] (n = 208) (mean = 37.42307692307692)
Bin #19: (.0334883713444992,.0353488364191936] (n = 212) (mean = 37.29245283018868)
Bin #20: (.0353488364191936,.037209301493888] (n = 222) (mean = 35.97297297298)
Bin #21: (.037209301493888,.0390697665685824] (n = 218) (mean = 37.10091743119266)
Bin #22: (.0390697665685824,.0409302316432768] (n = 111) (mean = 39.36036036036036)
Bin #23: (.0409302316432768,.0427906967179712] (n = 280) (mean = 37.11071428571429)
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Bin #24: (.0427906967179712,.0446511617926656] (n = 297) (mean = 36.18181818181818)
Bin #25: (.0446511617926656,.04651162686736] (n = 309) (mean = 35.65695792880259)
Bin #26: (.04651162686736,.0483720919420544] (n = 365) (mean = 36.02191780821918)
Bin #27: (.0483720919420544,.0502325570167488] (n = 379) (mean = 36.11873350923483)
Bin #28: (.0502325570167488,.0520930220914432] (n = 452) (mean = 36.82964601769911)
Bin #29: (.0520930220914432,.0539534871661376] (n = 222) (mean = 35.17567567567568)
Bin #30: (.0539534871661376,.055813952240832] (n = 503) (mean = 34.97614314115308)
Bin #31: (.055813952240832,.0576744173155264] (n = 576) (mean = 35.21354166666666)
Bin #32: (.0576744173155264,.0595348823902208] (n = 648) (mean = 35.04012345679013)
Bin #33: (.0595348823902208,.0613953474649152] (n = 786) (mean = 34.97837150127226)
Bin #34: (.0613953474649152,.0632558125396096] (n = 908) (mean = 35.16079295154185)
Bin #35: (.0632558125396096,.065116277614304] (n = 935) (mean = 35.19251336898396)
Bin #36: (.065116277614304,.0669767426889984] (n = 508) (mean = 34.38779527559055)
Bin \#37: (.0669767426889984,.0688372077636928] (n = 1124) (mean =
35.11120996441281)
Bin \#38: (.0688372077636928,.0706976728383872] (n = 1276) (mean =
34.60423197492163)
Bin \#39: (.0706976728383872,.0725581379130816] (n = 1421) (mean =
34.48979591836735)
Bin #40: (.0725581379130816,.074418602987776] (n = 1534) (mean = 34.24315514993481)
Bin #41: (.074418602987776,.0762790680624704] (n = 1661) (mean = 34.15833835039133)
Bin \#42: (.0762790680624704,.0781395331371648] (n = 1759) (mean =
34.63843092666288)
Bin #43: (.0781395331371648,.0799999982118607] (n = 1882) (mean =
33.76620616365569)
Bin #1: [.08,.0870961538644937] (n = 7516) (mean = 33.86455561468866)
Bin #2: (.0870961538644937,.0941923077289874] (n = 8836) (mean = 33.90006790402897)
Bin #3: (.0941923077289874,.1012884615934811] (n = 9669) (mean = 33.99658703071673)
Bin #4: (.1012884615934811,.1083846154579748] (n = 10403) (mean =
33.72863597039316)
Bin #5: (.1083846154579748,.1154807693224685] (n = 10849) (mean =
33.95428150059913)
Bin #6: (.1154807693224685,.1225769231869622] (n = 11032) (mean =
34.07605148658448)
Bin #7: (.1225769231869622,.1296730770514559] (n = 11176) (mean =
34.20427702219041)
Bin #8: (.1296730770514559,.1367692309159496] (n = 11318) (mean =
33.93002297225658)
Bin \#9: (.1367692309159496,.1438653847804433] (n = 11281) (mean =
34.33170818189877)
Bin #10: (.1438653847804433,.150961538644937) (n = 11104) (mean =
34.43804034582133)
Bin \#11: (.150961538644937,.1580576925094307] (n = 11942) (mean =
34.56380840730196)
Bin \#12: (.1580576925094307,.1651538463739244] (n = 9820) (mean =
34.95560081466395)
Bin #13: (.1651538463739244,.1722500002384181] (n = 9268) (mean =
35.07919723780751)
Bin \#14: (.1722500002384181,.1793461541029118] (n = 8405) (mean =
35.02153480071386)
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Bin #15: (.1793461541029118,.1864423079674055] (n = 7425) (mean =
35.19434343434344)
Bin #16: (.1864423079674055,.1935384618318992] (n = 6904) (mean =
35.42439165701043)
Bin #17: (.1935384618318992,.2006346156963929] (n = 5882) (mean =
35.92417545052703)
Bin #18: (.2006346156963929,.2077307695608866] (n = 5054) (mean = 36.1810447170558)
Bin #19: (.2077307695608866, .2148269234253803) (n = 4234) (mean =
36.42158715162967)
Bin #20: (.2148269234253803,.221923077289874] (n = 3642) (mean = 36.43108182317408)
Bin #21: (.221923077289874,.2290192311543677] (n = 3441) (mean = 36.94042429526301)
Bin \#22: (.2290192311543677,.2361153850188614] (n = 2402) (mean =
37.41465445462115)
Bin #23: (.2361153850188614,.2432115388833551] (n = 1976) (mean = 38.0915991902834)
Bin #24: (.2432115388833551,.2503076927478488] (n = 1584) (mean =
38.41287878787879)
Bin #25: (.2503076927478488,.2574038466123425] (n = 1313) (mean =
38.95277989337395)
Bin \#26: (.2574038466123425,.2645000004768362] (n = 1075) (mean =
39.05302325581396)
Bin #27: (.2645000004768362,.2715961543413299] (n = 789) (mean = 40.24081115335869)
Bin #28: (.2715961543413299,.2786923082058236] (n = 664) (mean = 39.7816265060241)
Bin #29: (.2786923082058236,.2857884620703173] (n = 530) (mean = 40.35471698113208)
Bin #30: (.2857884620703173,.292884615934811] (n = 425) (mean = 40.43058823529412)
Bin #31: (.292884615934811,.2999807697993047] (n = 348) (mean = 40.25862068965517)
Bin #32: (.2999807697993047,.3070769236637984] (n = 303) (mean = 41.44554455445545)
Bin #33: (.3070769236637984,.3141730775282921] (n = 223) (mean = 41.00896860986547)
Bin #34: (.3141730775282921,.3212692313927858] (n = 170) (mean = 41.68823529411765)
Bin #35: (.3212692313927858,.3283653852572795] (n = 133) (mean = 40.92481203007519)
Bin #36: (.3283653852572795,.3354615391217732] (n = 90) (mean = 41.2444444444445)
Bin #37: (.3354615391217732,.3425576929862669] (n = 102) (mean = 40.56862745098039)
Bin #38: (.3425576929862669,.3496538468507606] (n = 75) (mean = 40.2666666666667)
Bin #39: (.3496538468507606,.3567500007152543] (n = 41) (mean = 41.19512195121951)
Bin #40: (.3567500007152543,.363846154579748] (n = 30) (mean = 42.4666666666667)
Bin #41: (.363846154579748,.3709423084442417] (n = 17) (mean = 39.8235294117647)
Bin #42: (.3709423084442417,.3780384623087354] (n = 19) (mean = 41.57894736842106)
Bin #43: (.3780384623087354, .3851346161732291] (n = 20) (mean = 42.75)
Bin #44: (.3851346161732291,.3922307700377228] (n = 4) (mean = 36.5)
Bin #45: (.3922307700377228,.3993269239022165] (n = 5) (mean = 37.4)
Bin #46: (.3993269239022165,.4064230777667102] (n = 3) (mean = 39)
Bin #47: (.4064230777667102,.4135192316312039] (n = 2) (mean = 41.5)
Bin #48: (.4135192316312039,.4206153854956976] (n = 1) (mean = 38)
Bin #49: (.4206153854956976,.4277115393601913] (n = 1) (mean = 39)
Bin #50: (.4277115393601913,.434807693224685] (n = 0) (mean = .)
Bin #51: (.434807693224685,.4419038470891787] (n = 1) (mean = 31)
Bin #52: (.4419038470891787,.4490000009536743] (n = 1) (mean = 47)
```

. cmogram aged bac1, cut(0.08) scatter line(0.08) qfit



Plotting mean of aged, conditional on bac1.

```
Bin #1: [0,.0018604650746944] (n = 1747) (mean = 38.79107040641099)
Bin #2: (.0018604650746944,.0037209301493888] (n = 430) (mean = 37.74418604651163)
Bin #3: (.0037209301493888,.0055813952240832] (n = 205) (mean = 38.39512195121952)
Bin #4: (.0055813952240832,.0074418602987776] (n = 113) (mean = 36.5575221238938)
Bin #5: (.0074418602987776,.009302325373472] (n = 123) (mean = 36.77235772357724)
Bin #6: (.009302325373472,.0111627904481664] (n = 118) (mean = 39.01694915254237)
Bin #7: (.0111627904481664,.0130232555228608] (n = 116) (mean = 38.11206896551724)
Bin #8: (.0130232555228608,.0148837205975552] (n = 66) (mean = 35.95454545454545)
Bin #9: (.0148837205975552,.0167441856722496] (n = 110) (mean = 38.47272727272728)
Bin #10: (.0167441856722496,.018604650746944] (n = 139) (mean = 37.71942446043165)
Bin #11: (.018604650746944,.0204651158216384] (n = 129) (mean = 37.55038759689923)
Bin #12: (.0204651158216384,.0223255808963328] (n = 126) (mean = 34.90476190476191)
Bin #13: (.0223255808963328,.0241860459710272] (n = 153) (mean = 36.01307189542484)
Bin #14: (.0241860459710272,.0260465110457216] (n = 171) (mean = 36.15204678362573)
Bin #15: (.0260465110457216,.027906976120416] (n = 90) (mean = 37.655555555555555)
Bin #16: (.027906976120416,.0297674411951104] (n = 175) (mean = 36.42285714285714)
Bin #17: (.0297674411951104,.0316279062698048] (n = 203) (mean = 37.07389162561577)
Bin #18: (.0316279062698048,.0334883713444992] (n = 208) (mean = 37.42307692307692)
Bin #19: (.0334883713444992,.0353488364191936] (n = 212) (mean = 37.29245283018868)
Bin #20: (.0353488364191936,.037209301493888] (n = 222) (mean = 35.97297297297298)
Bin #21: (.037209301493888,.0390697665685824] (n = 218) (mean = 37.10091743119266)
Bin #22: (.0390697665685824,.0409302316432768] (n = 111) (mean = 39.36036036036036)
Bin #23: (.0409302316432768,.0427906967179712] (n = 280) (mean = 37.11071428571429)
Bin #24: (.0427906967179712,.0446511617926656] (n = 297) (mean = 36.181818181818)
Bin #25: (.0446511617926656,.04651162686736] (n = 309) (mean = 35.65695792880259)
Bin #26: (.04651162686736,.0483720919420544] (n = 365) (mean = 36.02191780821918)
Bin #27: (.0483720919420544,.0502325570167488] (n = 379) (mean = 36.11873350923483)
Bin #28: (.0502325570167488,.0520930220914432] (n = 452) (mean = 36.82964601769911)
Bin #29: (.0520930220914432,.0539534871661376] (n = 222) (mean = 35.17567567567568)
Bin #30: (.0539534871661376,.055813952240832] (n = 503) (mean = 34.97614314115308)
Bin #31: (.055813952240832,.0576744173155264] (n = 576) (mean = 35.21354166666666)
```

```
Bin #32: (.0576744173155264,.0595348823902208] (n = 648) (mean = 35.04012345679013)
Bin #33: (.0595348823902208,.0613953474649152] (n = 786) (mean = 34.97837150127226)
Bin #34: (.0613953474649152,.0632558125396096] (n = 908) (mean = 35.16079295154185)
Bin #35: (.0632558125396096,.065116277614304] (n = 935) (mean = 35.19251336898396)
Bin #36: (.065116277614304,.0669767426889984] (n = 508) (mean = 34.38779527559055)
Bin \#37: (.0669767426889984,.0688372077636928] (n = 1124) (mean =
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Bin #38: (.0688372077636928,.0706976728383872] (n = 1276) (mean =
34.60423197492163)
Bin \#39: (.0706976728383872,.0725581379130816] (n = 1421) (mean =
34.48979591836735)
Bin #40: (.0725581379130816,.074418602987776] (n = 1534) (mean = 34.24315514993481)
Bin #41: (.074418602987776,.0762790680624704] (n = 1661) (mean = 34.15833835039133)
Bin \#42: (.0762790680624704,.0781395331371648] (n = 1759) (mean =
34.63843092666288)
Bin \#43: (.0781395331371648,.0799999982118607] (n = 1882) (mean =
33.76620616365569)
Bin #1: [.08,.0870961538644937] (n = 7516) (mean = 33.86455561468866)
Bin #2: (.0870961538644937,.0941923077289874] (n = 8836) (mean = 33.90006790402897)
Bin #3: (.0941923077289874,.1012884615934811] (n = 9669) (mean = 33.99658703071673)
Bin #4: (.1012884615934811,.1083846154579748] (n = 10403) (mean =
33.72863597039316)
Bin #5: (.1083846154579748,.1154807693224685] (n = 10849) (mean =
33.95428150059913)
Bin #6: (.1154807693224685,.1225769231869622] (n = 11032) (mean =
34.07605148658448)
Bin #7: (.1225769231869622,.1296730770514559] (n = 11176) (mean =
34.20427702219041)
Bin #8: (.1296730770514559,.1367692309159496] (n = 11318) (mean =
33.93002297225658)
Bin \#9: (.1367692309159496,.1438653847804433] (n = 11281) (mean =
34.33170818189877)
Bin #10: (.1438653847804433,.150961538644937] (n = 11104) (mean =
34.43804034582133)
Bin #11: (.150961538644937,.1580576925094307) (n = 11942) (mean =
34.56380840730196)
Bin #12: (.1580576925094307,.1651538463739244] (n = 9820) (mean =
34.95560081466395)
Bin #13: (.1651538463739244,.1722500002384181] (n = 9268) (mean =
35.07919723780751)
Bin \#14: (.1722500002384181,.1793461541029118] (n = 8405) (mean =
35.02153480071386)
Bin \#15: (.1793461541029118,.1864423079674055] (n = 7425) (mean =
35.19434343434344)
Bin #16: (.1864423079674055, .1935384618318992] (n = 6904) (mean =
35.42439165701043)
Bin \#17: (.1935384618318992,.2006346156963929] (n = 5882) (mean =
35.92417545052703)
Bin #18: (.2006346156963929,.2077307695608866] (n = 5054) (mean = 36.1810447170558)
Bin #19: (.2077307695608866, .2148269234253803) (n = 4234) (mean =
```

```
36.42158715162967)
Bin #20: (.2148269234253803,.221923077289874] (n = 3642) (mean = 36.43108182317408)
Bin #21: (.221923077289874,.2290192311543677] (n = 3441) (mean = 36.94042429526301)
Bin #22: (.2290192311543677,.2361153850188614] (n = 2402) (mean =
37.41465445462115)
Bin #23: (.2361153850188614,.2432115388833551] (n = 1976) (mean = 38.0915991902834)
Bin #24: (.2432115388833551,.2503076927478488] (n = 1584) (mean =
38.41287878787879)
Bin #25: (.2503076927478488,.2574038466123425] (n = 1313) (mean =
38.95277989337395)
Bin \#26: (.2574038466123425,.2645000004768362] (n = 1075) (mean =
39.05302325581396)
Bin #27: (.2645000004768362,.2715961543413299] (n = 789) (mean = 40.24081115335869)
Bin #28: (.2715961543413299,.2786923082058236] (n = 664) (mean = 39.7816265060241)
Bin #29: (.2786923082058236,.2857884620703173] (n = 530) (mean = 40.35471698113208)
Bin #30: (.2857884620703173,.292884615934811] (n = 425) (mean = 40.43058823529412)
Bin #31: (.292884615934811,.2999807697993047] (n = 348) (mean = 40.25862068965517)
Bin #32: (.2999807697993047,.3070769236637984] (n = 303) (mean = 41.44554455445545)
Bin #33: (.3070769236637984,.3141730775282921] (n = 223) (mean = 41.00896860986547)
Bin #34: (.3141730775282921,.3212692313927858] (n = 170) (mean = 41.68823529411765)
Bin #35: (.3212692313927858,.3283653852572795] (n = 133) (mean = 40.92481203007519)
Bin #36: (.3283653852572795,.3354615391217732] (n = 90) (mean = 41.2444444444445)
Bin #37: (.3354615391217732,.3425576929862669] (n = 102) (mean = 40.56862745098039)
Bin #38: (.3425576929862669,.3496538468507606] (n = 75) (mean = 40.2666666666667)
Bin #39: (.3496538468507606,.3567500007152543] (n = 41) (mean = 41.19512195121951)
Bin #40: (.3567500007152543,.363846154579748] (n = 30) (mean = 42.46666666666667)
Bin #41: (.363846154579748,.3709423084442417] (n = 17) (mean = 39.8235294117647)
Bin #42: (.3709423084442417,.3780384623087354] (n = 19) (mean = 41.57894736842106)
Bin #43: (.3780384623087354, .3851346161732291] (n = 20) (mean = 42.75)
Bin #44: (.3851346161732291,.3922307700377228] (n = 4) (mean = 36.5)
Bin #45: (.3922307700377228,.3993269239022165] (n = 5) (mean = 37.4)
Bin #46: (.3993269239022165,.4064230777667102] (n = 3) (mean = 39)
Bin #47: (.4064230777667102,.4135192316312039] (n = 2) (mean = 41.5)
Bin #48: (.4135192316312039,.4206153854956976] (n = 1) (mean = 38)
Bin #49: (.4206153854956976,.4277115393601913] (n = 1) (mean = 39)
Bin \#50: (.4277115393601913,.434807693224685] (n = 0) (mean = .)
Bin #51: (.434807693224685,.4419038470891787] (n = 1) (mean = 31)
Bin #52: (.4419038470891787,.4490000009536743] (n = 1) (mean = 47)
*quesition7---
. gen bac1 c = bac1 - 0.08
. gen baccbac1_c = bacc*bac1_c
. gen bac1 c2 = bac1^2
. gen bac1 c3 = bac1*bac1*bac1gen bac1 c = bac1 - 0.08
. sum bac1 c
```

Std. Dev.

Min

Max

Mean

Variable |

0bs

```
bac1_c | 214,558 .0617345 .0539008 -.08 .369
. xi: reg recidivism male white age acc bac1 if bac1>=0.03 & bac1<=0.13, robust
                                                          Number of obs
                                                                                = 89,967
Linear regression
                                                          F(5, 89961)
                                                                                       61.93
                                                                               = 0.0000
                                                          Prob > F
                                                          R-squared
                                                                               =
                                                                                        0.0031
                                                          Root MSE
                                                                                       .30857
                                  Robust
  recidivism
                        Coef. Std. Err.
                                                                       [95% Conf. Interval]

      male
      .0331526
      .0023292
      14.23
      0.000
      .0285874

      white
      .0161118
      .0028028
      5.75
      0.000
      .0106183

      aged
      -.0008381
      .0000849
      -9.87
      0.000
      -.0010045

      acc
      .0047692
      .0034524
      1.38
      0.167
      -.0019975

      bac1
      -.0754879
      .0482512
      -1.56
      0.118
      -.1700597

                                                                                     .0377178
                                                                                    .0216052
                                                                                    -.0006716
                                                                                  .0115358
                                                                                    .0190839
        _cons |
                               .0062892 16.30 0.000
                    .1025354
                                                                      .0902086
                                                                                     .1148622
. xi: reg recidivism male white age acc i.bacc*bac1 if bac1>=0.03 & bac1<=0.13,
robust
                    _Ibacc_0-1
i.bacc
                                             (naturally coded; _Ibacc_0 omitted)
i.bacc*bac1
                     _IbacXbac1_#
                                           (coded as above)
Linear regression
                                                          Number of obs
                                                                                = 89,967
                                                          F(7, 89959)
                                                                                       51.13
                                                          Prob > F
                                                                                        0.0000
                                                          R-squared
                                                                                        0.0036
                                                          Root MSE
                                                                                       .30849
                                   Robust
                        Coef. Std. Err. t P>|t|
                                                                       [95% Conf. Interval]
  recidivism |
 male | .0331803 .0023289 14.25 0.000 .0286157
                                                                                    .0377449
                   .0162238 .0028024 5.79 0.000 .0107311
                                                                                    .0217166
        white |

      aged | -.0008537
      .000085
      -10.05
      0.000
      -.0010203
      -.0006872

      acc | .0042096
      .003452
      1.22
      0.223
      -.0025562
      .0109754

      acc_1 | -.0590663
      .0152111
      -3.88
      0.000
      -.0888798
      -.0292528

     _Ibacc_1
                                               -0.23 0.818 -.4086651
                  -.0428678 .1866322
                                                                                    .3229296
         bac1
                                                2.15 0.032
IbacXbac1 1
                  .4380899 .2037978
                                                                     .0386482
                                                                                    .8375316
        _cons | .1093521 .013144 8.32 0.000 .0835899 .1351142
```

[.] xi: reg recidivism male white age acc bacc##(c.bac1_c c.bac1_c2) if bac1>=0.03 &

bac1<=0.13, robust

Linear regression	Number of obs	=	89,967
	F/9 89957)	_	40 23

F(9, 89957) = 40.23 Prob > F = 0.0000 R-squared = 0.0037 Root MSE = .30848

	· · · · · · · · · ·	Robust				
recidivism	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
male white aged acc 1.bacc bac1_c	.0332123 .0162247 0008538 .0041839 2238005 2.902053	.0023288 .0028024 .000085 .0034514 .0925514 1.6372	14.26 5.79 -10.05 1.21 -2.42 1.77	0.000 0.000 0.000 0.225 0.016 0.076	.028648 .0107321 0010203 0025807 4052004 3068418	.0377767 .0217173 0006872 .0109485 0424005 6.110949
bac1_c2 bacc#c.bac1_c 1	-24.71687 -4.210134	13.73897 2.111312	-1.80	0.072	-51.64513 -8.348286	2.211387
bacc#c.bac1_c2 1	 32.73074 	15.10452	2.17	0.030	3.126027	62.33546
_cons	.2583356	.0848328	3.05	0.002	.0920642	.4246071

. xi: reg recidivism male white age acc bac1_c if bac1>=0.03 & bac1<=0.13, robust

Linear regression	Number of obs	=	89,967	
	F(5, 89961)	=	61.93	

F(5, 89901) - 0.0000 F(5,

recidivism	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
male	.0331526	.0023292	14.23	0.000	.0285874	.0377178
white	.0161118	.0028028	5.75	0.000	.0106183	.0216052
aged	0008381	.0000849	-9.87	0.000	0010045	0006716
acc	.0047692	.0034524	1.38	0.167	0019975	.0115358
bac1_c	0754879	.0482512	-1.56	0.118	1700597	.0190839
cons	.0964963	.0042602	22.65	0.000	.0881464	.1048463

```
. xi: reg recidivism male white age acc i.bacc*bac1_c if bac1>=0.03 & bac1<=0.13, robust
```

Linear regression Number of obs = 89,967F(7, 89959) = 51.13

Prob > F = 0.0000 R-squared = 0.0036

Root MSE = .30849

	 	Robust				
recidivism	Coef.	Std. Err.	t	P> t	[95% Conf.	Interval]
male	.0331803	.0023289	14.25	0.000	.0286157	.0377449
white	.0162238	.0028024	5.79	0.000	.0107311	.0217166
aged	0008537	.000085	-10.05	0.000	0010203	0006872
acc	.0042096	.003452	1.22	0.223	0025562	.0109754
_Ibacc_1	0240191	.0043529	-5.52	0.000	0325507	0154875
bac1_c	0428678	.1866322	-0.23	0.818	4086652	.3229296
_IbacXbac11	.4380899	.2037978	2.15	0.032	.0386482	.8375316
_cons	.1059227	.0053549	19.78	0.000	.0954271	.1164182

. xi: reg recidivism male white age acc bacc##(c.bac1_c c.bac1_c2) if bac1>=0.03 &
bac1<=0.13, robust</pre>

Linear regression Number of obs = 89,967

F(9, 89957) = 40.23 Prob > F = 0.0000 R-squared = 0.0037

Root MSE = .30848

recidivism	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
male	.0332123	.0023288	14.26	0.000	.028648	.0377767
white	.0162247	.0028024	5.79	0.000	.0107321	.0217173
aged	0008538	.000085	-10.05	0.000	0010203	0006872
acc	.0041839	.0034514	1.21	0.225	0025807	.0109485
1.bacc	2238005	.0925514	-2.42	0.016	4052004	0424005
bac1_c	2.902053	1.6372	1.77	0.076	3068418	6.110949
bac1_c2	-24.71687	13.73897	-1.80	0.072	-51.64513	2.211387
bacc#c.bac1_c						
1	-4.210134	2.111312	-1.99	0.046	-8.348286	0719823
bacc#c.bac1_c2						

```
1 | 32.73074 15.10452 2.17 0.030 3.126027 62.33546
        cons .2583356 .0848328 3.05 0.002
                                                      .0920642
                                                                  .4246071
. xi: reg recidivism male white age acc bac1 c if bac1>=0.055 & bac1<=0.105, robust
Linear regression
                                            Number of obs
                                                                  46,957
                                             F(5, 46951)
                                                                   37.80
                                            Prob > F
                                                                   0.0000
                                             R-squared
                                                                 0.0036
                                             Root MSE
                                                                    .3063
                          Robust
 recidivism |
                 Coef. Std. Err.
                                     t P>|t|
                                                    [95% Conf. Interval]
       male | .0357643 .0031666 11.29 0.000
                                                     .0295578 .0419708
             .0174948 .0038134 4.59 0.000 .0100204
-.0007526 .0001154 -6.52 0.000 -.0009787
                                                    .0100204
      white |
                                                                .0249692
       aged
                                                                -.0005265
                                     0.87 0.382 -.0053904
               .0043439 .0049664
        acc
                                                                .0140782
                                  -4.26 0.000
              -.4758923 .1117794
                                                    -.6949815
     bac1 c
                                                                -.2568032
                                  15.97 0.000
              .0904025 .0056624
                                                    .0793042
      _cons
                                                                .1015009
. xi: reg recidivism male white age acc i.bacc*bac1_c if bac1>=0.055 & bac1<=0.105,
robust
                                   (naturally coded; _Ibacc_0 omitted)
i.bacc
                Ibacc 0-1
i.bacc*bac1 c
                _IbacXbac1__#
                                   (coded as above)
                                            Number of obs
Linear regression
                                                                  46,957
                                             F(7, 46949)
                                                                   29.17
                                             Prob > F
                                                                   0.0000
                                             R-squared
                                                                   0.0040
                                                            =
                                             Root MSE
                                                                   .30625
                           Robust
  recidivism |
                                       t P>|t|
                 Coef.
                          Std. Err.
                                                     [95% Conf. Interval]
        male |
               .0357191 .0031666 11.28 0.000
                                                      .0295126
                                                                .0419256
                .0175942 .0038129 4.61 0.000
                                                      .0101209 .0250675
       white |
              -.0007579 .0001154 -6.57 0.000
                                                     -.000984 -.0005318
        aged |
                                                   -.0055168 .0139584
-.0318406 -.0093142
                                                                 .0139584
                         .0049681
                                     0.85 0.396
         acc
                .0042208
    Ibacc 1 | -.0205774 .0057465 -3.58 0.000
      bac1_c | -.1955582 .3825057 -0.51 0.609 -.9452749 .5541585
bac1__1 | .5470655 .4493585 1.22 0.223 -.3336838 1.427815
_IbacXbac1__1
       _cons .0976074
                          .0069612
                                     14.02 0.000
                                                      .0839634
                                                                 .1112514
```

. xi: reg recidivism male white age acc bacc##(c.bac1_c c.bac1_c2) if bac1>=0.055 & bac1<=0.105, robust

Linear regression Number of obs = 46,957 F(9, 46947) = 22.78 Prob > F = 0.0000R-squared = 0.0040

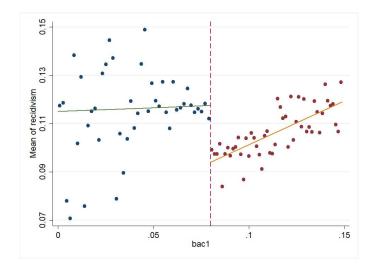
Root MSE = .30626

recidivism	 Coef.	Robust Std. Err.	t	P> t	[Q5% Conf	Interval]
rectutvisiii	l coer.	Stu. Elli.	·	F> C	[93% COIII.	Incerval
male	.0357529	.0031666	11.29	0.000	.0295463	.0419596
white	.0175921	.0038126	4.61	0.000	.0101193	.0250649
aged	0007582	.0001154	-6.57	0.000	0009844	000532
acc	.0042334	.004968	0.85	0.394	005504	.0139709
1.bacc	4702096	.4369911	-1.08	0.282	-1.326718	.3862993
bac1_c	6.167045	8.119768	0.76	0.448	-9.747818	22.08191
bac1_c2	-46.06441	58.7465	-0.78	0.433	-161.2084	69.07958
bacc#c.bac1_c						
1	-10.52059	10.60942	-0.99	0.321	-31.3152	10.27402
<pre>bacc#c.bac1_c2</pre>						
1	71.26729	69.20719	1.03	0.303	-64.37981	206.9144
_cons	.3891242	.3720196	1.05	0.296	3400396	1.118288
_1	71.26729	69.20719	1.03	0.303	-64.37981	206.9144

*___

*question8---

. cmogram recidivism bac1 if bac1<0.15, cut(0.08) scatter line(0.08) lfit



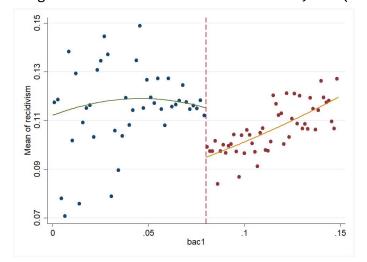
Plotting mean of recidivism, conditional on bac1.

```
Bin #1: [0,.0018604650746944] (n = 1747) (mean = .1173440183171151)
Bin #2: (.0018604650746944,.0037209301493888] (n = 430) (mean = .1186046511627907)
Bin #3: (.0037209301493888,.0055813952240832] (n = 205) (mean = .0780487804878049)
Bin #4: (.0055813952240832,.0074418602987776] (n = 113) (mean = .0707964601769911)
Bin #5: (.0074418602987776,.009302325373472] (n = 123) (mean = .1382113821138211)
Bin #6: (.009302325373472,.0111627904481664] (n = 118) (mean = .1016949152542373)
Bin #7: (.0111627904481664,.0130232555228608] (n = 116) (mean = .1293103448275862)
Bin #8: (.0130232555228608,.0148837205975552] (n = 66) (mean = .0757575757575758)
Bin #9: (.0148837205975552,.0167441856722496] (n = 110) (mean = .1090909090909091)
Bin #10: (.0167441856722496,.018604650746944] (n = 139) (mean = .1151079136690648)
Bin #11: (.018604650746944,.0204651158216384] (n = 129) (mean = .1162790697674419)
Bin #12: (.0204651158216384,.0223255808963328] (n = 126) (mean = .1031746031746032)
Bin #13: (.0223255808963328,.0241860459710272] (n = 153) (mean = .130718954248366)
Bin #14: (.0241860459710272,.0260465110457216] (n = 171) (mean = .1345029239766082)
Bin #15: (.0260465110457216,.027906976120416] (n = 90) (mean = .1444444444444444)
Bin #16: (.027906976120416,.0297674411951104] (n = 175) (mean = .1371428571428572)
Bin #17: (.0297674411951104,.0316279062698048] (n = 203) (mean = .0788177339901478)
Bin #18: (.0316279062698048,.0334883713444992] (n = 208) (mean = .1057692307692308)
Bin #19: (.0334883713444992,.0353488364191936] (n = 212) (mean = .089622641509434)
Bin #20: (.0353488364191936,.037209301493888] (n = 222) (mean = .1036036036036036)
Bin #21: (.037209301493888,.0390697665685824] (n = 218) (mean = .1192660550458716)
Bin #22: (.0390697665685824,.0409302316432768] (n = 111) (mean = .1081081081081081)
Bin #23: (.0409302316432768,.0427906967179712] (n = 280) (mean = .1142857142857143)
Bin #24: (.0427906967179712,.0446511617926656] (n = 297) (mean = .1346801346801347)
Bin #25: (.0446511617926656,.04651162686736] (n = 309) (mean = .1488673139158576)
Bin #26: (.04651162686736,.0483720919420544] (n = 365) (mean = .1150684931506849)
Bin #27: (.0483720919420544,.0502325570167488] (n = 379) (mean = .1266490765171504)
Bin #28: (.0502325570167488,.0520930220914432] (n = 452) (mean = .1194690265486726)
Bin #29: (.0520930220914432,.0539534871661376] (n = 222) (mean = .1171171171171171)
Bin #30: (.0539534871661376,.055813952240832] (n = 503) (mean = .1272365805168986)
Bin #31: (.055813952240832,.0576744173155264] (n = 576) (mean = .1145833333333333)
Bin #32: (.0576744173155264,.0595348823902208] (n = 648) (mean = .1080246913580247)
Bin #33: (.0595348823902208,.0613953474649152] (n = 786) (mean = .1272264631043257)
Bin #34: (.0613953474649152,.0632558125396096] (n = 908) (mean = .1156387665198238)
Bin #35: (.0632558125396096,.065116277614304] (n = 935) (mean = .1165775401069519)
Bin #36: (.065116277614304,.0669767426889984] (n = 508) (mean = .1181102362204724)
Bin #37: (.0669767426889984,.0688372077636928] (n = 1124) (mean =
.1245551601423488)
Bin #38: (.0688372077636928,.0706976728383872] (n = 1276) (mean =
```

```
.1175548589341693)
Bin \#39: (.0706976728383872,.0725581379130816] (n = 1421) (mean =
.1147079521463758)
Bin #40: (.0725581379130816,.074418602987776] (n = 1534) (mean = .1160365058670144)
Bin #41: (.074418602987776,.0762790680624704] (n = 1661) (mean = .1149909692956051)
Bin \#42: (.0762790680624704,.0781395331371648] (n = 1759) (mean =
.1182490051165435)
Bin \#43: (.0781395331371648,.0799999982118607] (n = 1882) (mean =
.1121147715196599)
Bin #1: [.08,.0813800000786781] (n = 979) (mean = .0990806945863126)
Bin #2: (.0813800000786781,.0827600001573562] (n = 1099) (mean = .097361237488626)
Bin #3: (.0827600001573562,.0841400002360343] (n = 2134) (mean = .0974695407685098)
Bin #4: (.0841400002360343,.0855200003147124] (n = 1053) (mean = .1016144349477683)
Bin #5: (.0855200003147124,.0869000003933905] (n = 1084) (mean = .083948339483)
Bin #6: (.0869000003933905,.0882800004720686] (n = 2383) (mean = .0973562736047)
Bin \#7: (.0882800004720686,.0896600005507467] (n = 1270) (mean = .1)
Bin #8: (.0896600005507467,.0910400006294248] (n = 2463) (mean = .096630125862769)
Bin #9: (.0910400006294248,.0924200007081029] (n = 1265) (mean = .0996047430830039)
Bin #10: (.0924200007081029,.093800000786781] (n = 1325) (mean = .100377358490566)
Bin #11: (.093800000786781,.0951800008654591] (n = 2621) (mean = .1041587180465471)
Bin #12: (.0951800008654591,.0965600009441372] (n = 1327) (mean =
.0972117558402412)
Bin #13: (.0965600009441372,.0979400010228153] (n = 1325) (mean =
.0867924528301887)
Bin \#14: (.0979400010228153,.0993200011014934] (n = 2839) (mean =
.1039098274040155)
Bin #15: (.0993200011014934,.1007000011801715] (n = 1388) (mean =
.0965417867435159)
Bin #16: (.1007000011801715,.1020800012588496] (n = 2912) (mean =
.1061126373626374)
Bin \#17: (.1020800012588496,.1034600013375277] (n = 1479) (mean =
.1041244083840433)
Bin #18: (.1034600013375277,.1048400014162058] (n = 1520) (mean =
.1006578947368421)
Bin #19: (.1048400014162058,.1062200014948839] (n = 3005) (mean = .097171381031614)
Bin #20: (.1062200014948839,.107600001573562] (n = 1447) (mean = .0912232204561161)
Bin #21: (.107600001573562,.1089800016522401] (n = 1506) (mean = .1049136786188579)
Bin \#22: (.1089800016522401,.1103600017309182] (n = 3025) (mean =
.1067768595041322)
Bin \#23: (.1103600017309182,.1117400018095963] (n = 1564) (mean =
.0978260869565217)
Bin \#24: (.1117400018095963,.1131200018882744] (n = 3139) (mean =
.0974832749283211)
Bin \#25: (.1131200018882744,.1145000019669525] (n = 1501) (mean =
.1012658227848101)
Bin #26: (.1145000019669525,.1158800020456306] (n = 1620) (mean =
.1203703703703704)
Bin \#27: (.1158800020456306,.1172600021243087] (n = 3097) (mean =
.1168873103002906)
Bin #28: (.1172600021243087,.1186400022029868] (n = 1550) (mean = .112258064516129)
```

```
Bin #29: (.1186400022029868,.1200200022816649] (n = 3135) (mean =
.1129186602870813)
Bin #30: (.1200200022816649,.121400002360343] (n = 1666) (mean = .1002400960384154)
Bin #31: (.121400002360343,.1227800024390211] (n = 1584) (mean = .1212121212121212)
Bin \#32: (.1227800024390211,.1241600025176992] (n = 3225) (mean =
.1032558139534884)
Bin \#33: (.1241600025176992,.1255400025963773] (n = 1589) (mean =
.1107614852108244)
Bin \#34: (.1255400025963773,.1269200026750554] (n = 1570) (mean =
.1210191082802548)
Bin \#35: (.1269200026750554,.1283000027537335] (n = 3210) (mean =
.1087227414330218)
Bin #36: (.1283000027537335,.1296800028324116] (n = 1582) (mean =
.1201011378002529)
Bin \#37: (.1296800028324116,.1310600029110897] (n = 3170) (mean =
.1066246056782334)
Bin #38: (.1310600029110897,.1324400029897678] (n = 1639) (mean =
.1086028065893838)
Bin #39: (.1324400029897678,.1338200030684459] (n = 1604) (mean =
.1066084788029925)
Bin #40: (.1338200030684459,.135200003147124] (n = 3268) (mean = .1193390452876377)
Bin #41: (.135200003147124,.1365800032258021] (n = 1637) (mean = .1148442272449603)
Bin \#42: (.1365800032258021,.1379600033044802] (n = 1665) (mean =
.1063063063063063)
Bin \#43: (.1379600033044802,.1393400033831583] (n = 3161) (mean =
.1142043657070547)
Bin #44: (.1393400033831583,.1407200034618364] (n = 1656) (mean = .126207729468599)
Bin #45: (.1407200034618364,.1421000035405145] (n = 3232) (mean =
.1194306930693069)
Bin \#46: (.1421000035405145,.1434800036191926] (n = 1567) (mean =
.1174218251435865)
Bin \#47: (.1434800036191926,.1448600036978707] (n = 1609) (mean =
.1180857675574891)
Bin \#48: (.1448600036978707,.1462400037765488] (n = 3077) (mean =
.1095222619434514)
Bin #49: (.1462400037765488,.1476200038552269] (n = 1594) (mean =
.1066499372647428)
Bin \#50: (.1476200038552269,.1490000039339066] (n = 3272) (mean =
.1271393643031785)
```

. cmogram recidivism bac1 if bac1<0.15, cut(0.08) scatter line(0.08) qfit



Plotting mean of recidivism, conditional on bac1.

```
Bin #1: [0,.0018604650746944] (n = 1747) (mean = .1173440183171151)
Bin #2: (.0018604650746944,.0037209301493888] (n = 430) (mean = .1186046511627907)
Bin #3: (.0037209301493888,.0055813952240832] (n = 205) (mean = .0780487804878049)
Bin #4: (.0055813952240832,.0074418602987776] (n = 113) (mean = .0707964601769911)
Bin #5: (.0074418602987776,.009302325373472] (n = 123) (mean = .1382113821138211)
Bin #6: (.009302325373472,.0111627904481664] (n = 118) (mean = .1016949152542373)
Bin #7: (.0111627904481664,.0130232555228608] (n = 116) (mean = .1293103448275862)
Bin #8: (.0130232555228608,.0148837205975552] (n = 66) (mean = .0757575757575758)
Bin #9: (.0148837205975552,.0167441856722496] (n = 110) (mean = .1090909090909091)
Bin #10: (.0167441856722496,.018604650746944] (n = 139) (mean = .1151079136690648)
Bin #11: (.018604650746944,.0204651158216384] (n = 129) (mean = .1162790697674419)
Bin #12: (.0204651158216384,.0223255808963328] (n = 126) (mean = .1031746031746032)
Bin #13: (.0223255808963328,.0241860459710272] (n = 153) (mean = .130718954248366)
Bin #14: (.0241860459710272,.0260465110457216] (n = 171) (mean = .1345029239766082)
Bin #15: (.0260465110457216,.027906976120416] (n = 90) (mean = .1444444444444444)
Bin #16: (.027906976120416,.0297674411951104] (n = 175) (mean = .1371428571428572)
Bin #17: (.0297674411951104,.0316279062698048] (n = 203) (mean = .0788177339901478)
Bin #18: (.0316279062698048,.0334883713444992] (n = 208) (mean = .1057692307692308)
Bin #19: (.0334883713444992,.0353488364191936] (n = 212) (mean = .089622641509434)
Bin #20: (.0353488364191936,.037209301493888] (n = 222) (mean = .1036036036036036)
Bin #21: (.037209301493888,.0390697665685824] (n = 218) (mean = .1192660550458716)
Bin #22: (.0390697665685824,.0409302316432768] (n = 111) (mean = .1081081081081081)
Bin #23: (.0409302316432768,.0427906967179712] (n = 280) (mean = .1142857142857143)
Bin #24: (.0427906967179712,.0446511617926656] (n = 297) (mean = .1346801346801347)
Bin #25: (.0446511617926656,.04651162686736] (n = 309) (mean = .1488673139158576)
Bin #26: (.04651162686736,.0483720919420544] (n = 365) (mean = .1150684931506849)
Bin #27: (.0483720919420544,.0502325570167488] (n = 379) (mean = .1266490765171504)
Bin #28: (.0502325570167488,.0520930220914432] (n = 452) (mean = .1194690265486726)
Bin #29: (.0520930220914432,.0539534871661376] (n = 222) (mean = .1171171171171171)
Bin #30: (.0539534871661376,.055813952240832] (n = 503) (mean = .1272365805168986)
Bin #31: (.055813952240832,.0576744173155264] (n = 576) (mean = .1145833333333333)
Bin #32: (.0576744173155264,.0595348823902208] (n = 648) (mean = .1080246913580247)
Bin #33: (.0595348823902208,.0613953474649152] (n = 786) (mean = .1272264631043257)
Bin #34: (.0613953474649152,.0632558125396096] (n = 908) (mean = .1156387665198238)
Bin #35: (.0632558125396096,.065116277614304] (n = 935) (mean = .1165775401069519)
Bin #36: (.065116277614304,.0669767426889984] (n = 508) (mean = .1181102362204724)
Bin #37: (.0669767426889984,.0688372077636928] (n = 1124) (mean =
.1245551601423488)
Bin #38: (.0688372077636928,.0706976728383872] (n = 1276) (mean =
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.1175548589341693)
Bin \#39: (.0706976728383872,.0725581379130816] (n = 1421) (mean =
.1147079521463758)
Bin #40: (.0725581379130816,.074418602987776] (n = 1534) (mean = .1160365058670144)
Bin #41: (.074418602987776,.0762790680624704] (n = 1661) (mean = .1149909692956051)
Bin \#42: (.0762790680624704,.0781395331371648] (n = 1759) (mean =
.1182490051165435)
Bin \#43: (.0781395331371648,.0799999982118607] (n = 1882) (mean =
.1121147715196599)
Bin #1: [.08,.0813800000786781] (n = 979) (mean = .0990806945863126)
Bin #2: (.0813800000786781,.0827600001573562] (n = 1099) (mean = .097361237488626)
Bin #3: (.0827600001573562,.0841400002360343] (n = 2134) (mean = .0974695407685098)
Bin #4: (.0841400002360343,.0855200003147124] (n = 1053) (mean = .1016144349477683)
Bin #5: (.0855200003147124,.0869000003933905] (n = 1084) (mean = .083948339483)
Bin #6: (.0869000003933905,.0882800004720686] (n = 2383) (mean = .0973562736047)
Bin \#7: (.0882800004720686,.0896600005507467] (n = 1270) (mean = .1)
Bin #8: (.0896600005507467,.0910400006294248] (n = 2463) (mean = .096630125862769)
Bin #9: (.0910400006294248,.0924200007081029] (n = 1265) (mean = .0996047430830039)
Bin #10: (.0924200007081029,.093800000786781] (n = 1325) (mean = .100377358490566)
Bin #11: (.093800000786781,.0951800008654591] (n = 2621) (mean = .1041587180465471)
Bin #12: (.0951800008654591,.0965600009441372] (n = 1327) (mean =
.0972117558402412)
Bin #13: (.0965600009441372,.0979400010228153] (n = 1325) (mean =
.0867924528301887)
Bin \#14: (.0979400010228153,.0993200011014934] (n = 2839) (mean =
.1039098274040155)
Bin #15: (.0993200011014934,.1007000011801715] (n = 1388) (mean =
.0965417867435159)
Bin #16: (.1007000011801715,.1020800012588496] (n = 2912) (mean =
.1061126373626374)
Bin \#17: (.1020800012588496,.1034600013375277] (n = 1479) (mean =
.1041244083840433)
Bin #18: (.1034600013375277,.1048400014162058] (n = 1520) (mean =
.1006578947368421)
Bin #19: (.1048400014162058,.1062200014948839] (n = 3005) (mean = .097171381031614)
Bin #20: (.1062200014948839,.107600001573562] (n = 1447) (mean = .0912232204561161)
Bin #21: (.107600001573562,.1089800016522401] (n = 1506) (mean = .1049136786188579)
Bin \#22: (.1089800016522401,.1103600017309182] (n = 3025) (mean =
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Bin \#23: (.1103600017309182,.1117400018095963] (n = 1564) (mean =
.0978260869565217)
Bin \#24: (.1117400018095963,.1131200018882744] (n = 3139) (mean =
.0974832749283211)
Bin \#25: (.1131200018882744,.1145000019669525] (n = 1501) (mean =
.1012658227848101)
Bin #26: (.1145000019669525,.1158800020456306] (n = 1620) (mean =
.1203703703703704)
Bin \#27: (.1158800020456306,.1172600021243087] (n = 3097) (mean =
.1168873103002906)
Bin #28: (.1172600021243087,.1186400022029868] (n = 1550) (mean = .112258064516129)
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Bin #29: (.1186400022029868,.1200200022816649] (n = 3135) (mean =
.1129186602870813)
Bin #30: (.1200200022816649,.121400002360343] (n = 1666) (mean = .1002400960384154)
Bin #31: (.121400002360343,.1227800024390211] (n = 1584) (mean = .1212121212121212)
Bin \#32: (.1227800024390211,.1241600025176992] (n = 3225) (mean =
.1032558139534884)
Bin \#33: (.1241600025176992,.1255400025963773] (n = 1589) (mean =
.1107614852108244)
Bin #34: (.1255400025963773,.1269200026750554] (n = 1570) (mean =
.1210191082802548)
Bin \#35: (.1269200026750554,.1283000027537335] (n = 3210) (mean =
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Bin #36: (.1283000027537335,.1296800028324116] (n = 1582) (mean =
.1201011378002529)
Bin \#37: (.1296800028324116,.1310600029110897] (n = 3170) (mean =
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Bin #38: (.1310600029110897,.1324400029897678] (n = 1639) (mean =
.1086028065893838)
Bin \#39: (.1324400029897678,.1338200030684459] (n = 1604) (mean =
.1066084788029925)
Bin #40: (.1338200030684459,.135200003147124] (n = 3268) (mean = .1193390452876377)
Bin #41: (.135200003147124,.1365800032258021] (n = 1637) (mean = .1148442272449603)
Bin \#42: (.1365800032258021,.1379600033044802] (n = 1665) (mean =
.1063063063063063)
Bin \#43: (.1379600033044802,.1393400033831583] (n = 3161) (mean =
.1142043657070547)
Bin #44: (.1393400033831583,.1407200034618364] (n = 1656) (mean = .126207729468599)
Bin \#45: (.1407200034618364,.1421000035405145] (n = 3232) (mean =
.1194306930693069)
Bin \#46: (.1421000035405145,.1434800036191926] (n = 1567) (mean =
.1174218251435865)
Bin \#47: (.1434800036191926,.1448600036978707] (n = 1609) (mean =
.1180857675574891)
Bin \#48: (.1448600036978707, .1462400037765488] (n = 3077) (mean = 307
.1095222619434514)
Bin #49: (.1462400037765488,.1476200038552269] (n = 1594) (mean =
.1066499372647428)
Bin \#50: (.1476200038552269,.1490000039339066] (n = 3272) (mean =
.1271393643031785)
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name: <unnamed>

log: Z:\OneDrive - The University of Texas at Austin\學習小札\2020

UTAustin\2021 Sp_Causal Inference\RDD

> Replication\RDD_yh23469.log

log type: text

closed on: 18 Feb 2021, 00:52:52
