

Assignment 1: Hansen AER 2013

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Summary of Hansen's Project

Replication

Density of the Running Variable

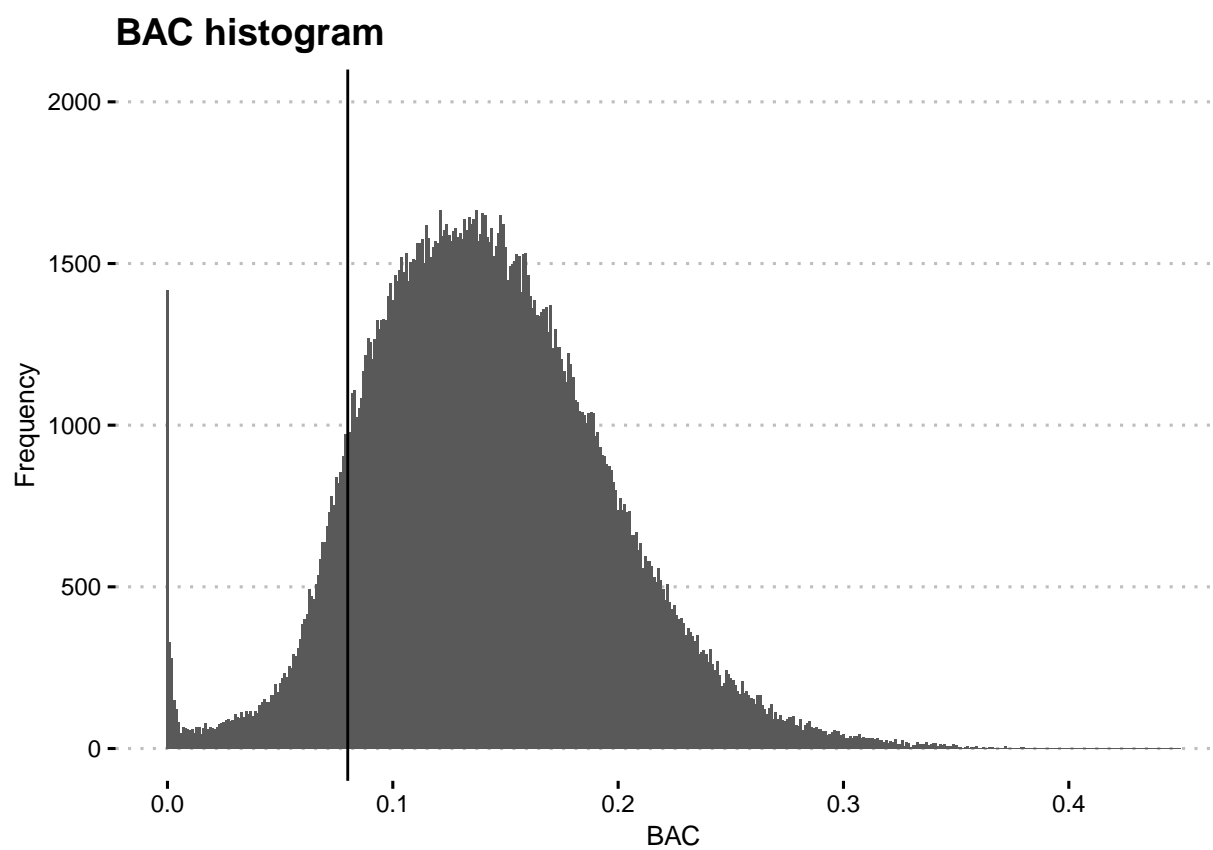


Table 1: Regression Discontinuity Estimates for Covariates

	Male (1)	White (2)	Age (3)	Accident (4)
DUI	0.031*** (0.007)	0.003 (0.007)	-7.787*** (0.215)	-0.219*** (0.007)
Observations	214,558	214,558	214,558	214,558
R ²	0.000	0.001	0.013	0.021
Adjusted R ²	0.000	0.001	0.013	0.021
Residual Std. Error (df = 214554)	0.408	0.345	11.431	0.351
F Statistic (df = 3; 214554)	9.428***	58.401***	907.467***	1,566.761***

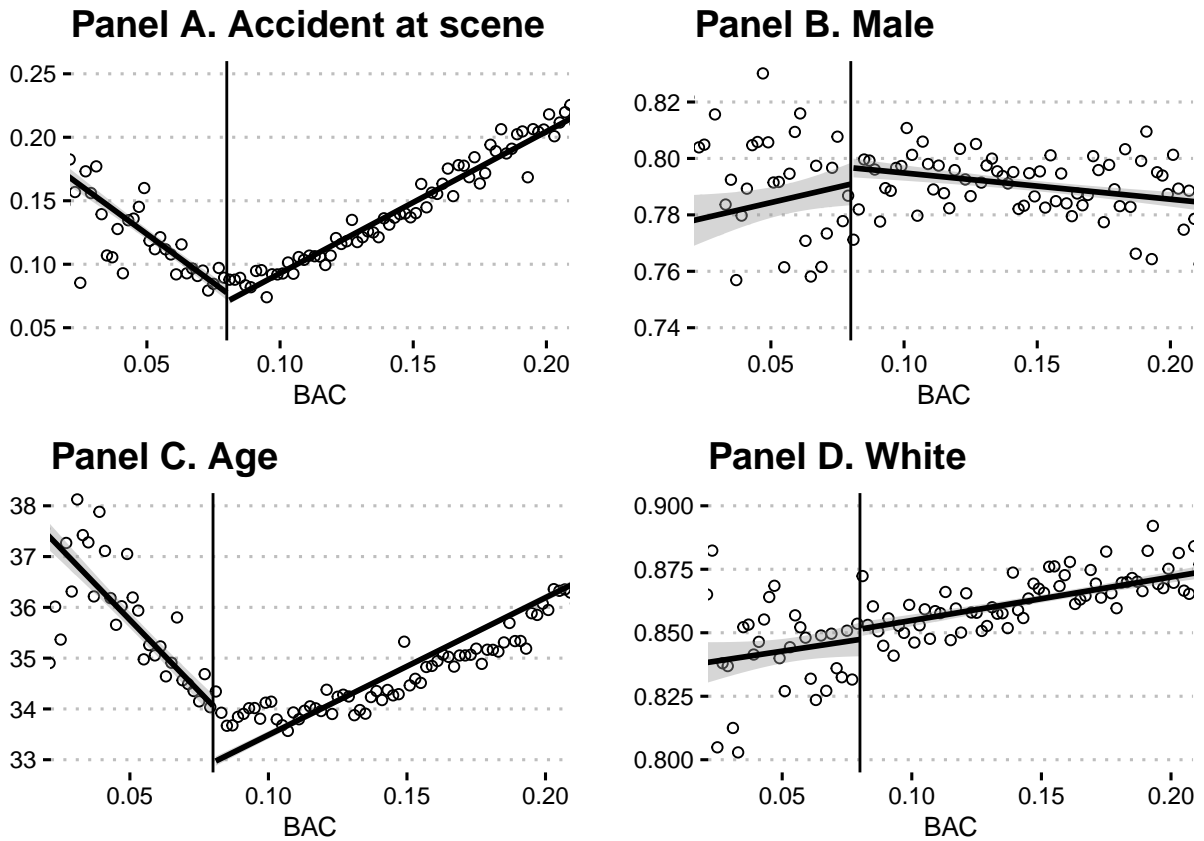
Notes:

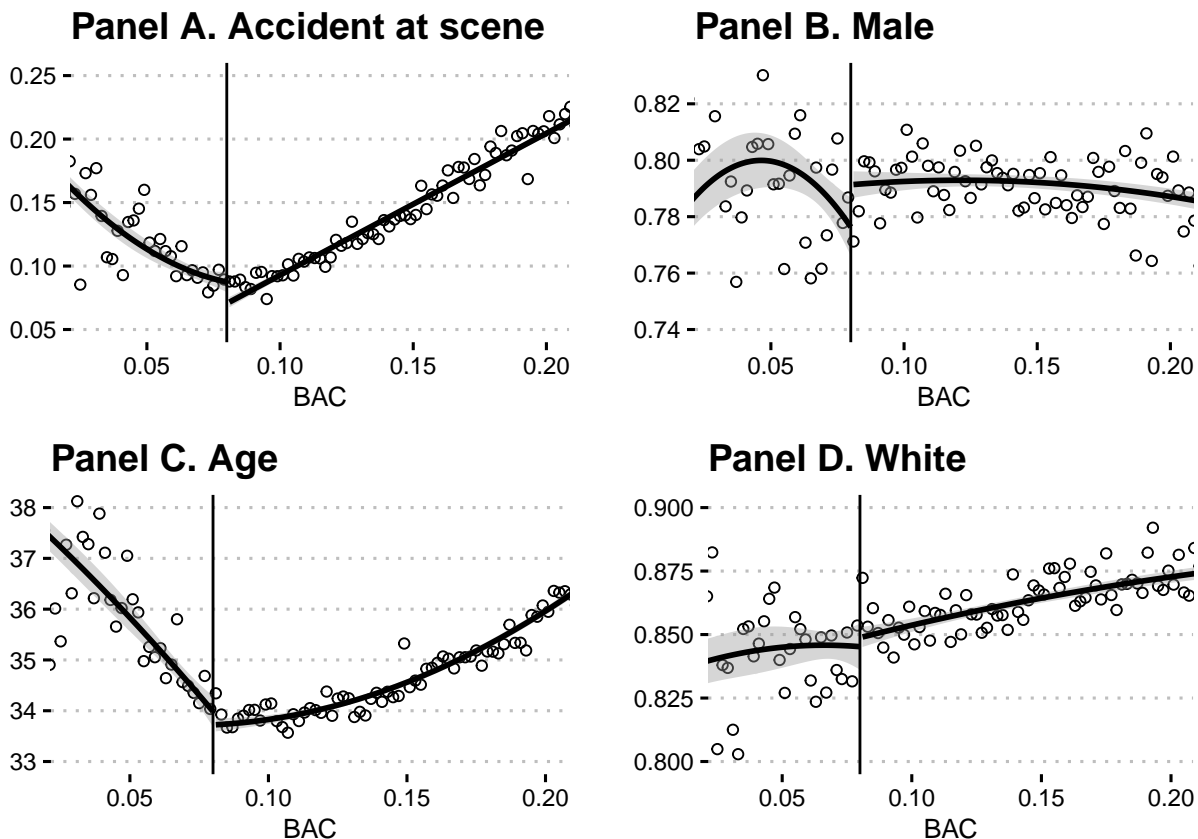
***Significant at the 1 percent level.

**Significant at the 5 percent level.

*Significant at the 10 percent level.

Covariates by the Running Variable





Regression Discontinuity

Table 2: Regression Discontinuity Estimates for the Effect of DUI on Recidivism, BAC in [0.03, 0.13]

	Linear Control	With Interaction	With Quadratic Interaction
	(1)	(2)	(3)
DUI	-0.027*** (0.004)	-0.059*** (0.015)	0.113 (0.084)
Observations	89,967	89,967	89,967
R ²	0.004	0.004	0.004
Adjusted R ²	0.004	0.004	0.004
Residual Std. Error	0.308 (df = 89960)	0.308 (df = 89959)	0.308 (df = 89957)
F Statistic	54.029*** (df = 6; 89960)	46.995*** (df = 7; 89959)	37.092*** (df = 9; 89957)

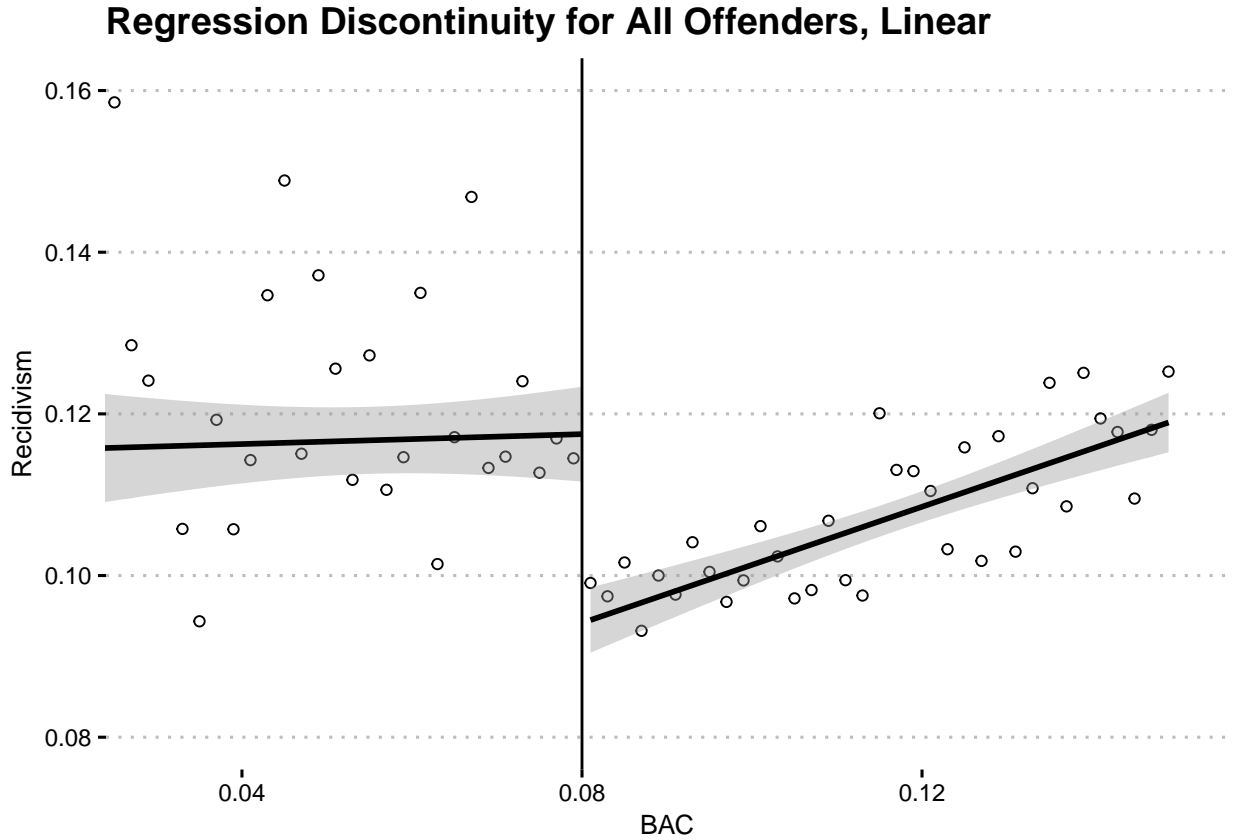
Notes:

- ***Significant at the 1 percent level.
- **Significant at the 5 percent level.
- *Significant at the 10 percent level.

Table 3: Regression Discontinuity Estimates for the Effect of DUI on Recidivism, BAC in [0.055, 0.105]

	Linear Control	With Interaction	With Quadratic Interaction
	(1)	(2)	(3)
DUI	-0.022*** (0.006)	-0.069** (0.034)	0.270 (0.409)
Observations	47,205	47,205	47,205
R ²	0.004	0.004	0.004
Adjusted R ²	0.004	0.004	0.004
Residual Std. Error	0.306 (df = 47198)	0.306 (df = 47197)	0.306 (df = 47195)
F Statistic	31.384*** (df = 6; 47198)	27.198*** (df = 7; 47197)	21.232*** (df = 9; 47195)

Notes: ***Significant at the 1 percent level.
 **Significant at the 5 percent level.
 *Significant at the 10 percent level.



Regression Discontinuity for All Offenders, Quadratic

