Appendix

Appendix

Table 1: Moratorium dates of each university in the sample.

University	Moratorium 1 Start	Moratorium 1 End	Moratorium 2 Start	Moratorium 2 End	Moratorium 3 Start	Moratorium 3 End
Arkansas State University-Main Campus	2017-02-21	2017-04-01	NA	NA	NA	NA
Ball State University	2017-10-24	2018-01-31	NA	NA	NA	NA
California Polytechnic State University-San Luis Obispo	2015-01-13	2015-04-06	2018-04-17	2018-06-06	NA	NA
Clemson University	2014-09-23	2014-10-10	2018-01-27	2018-03-01	NA	NA
College of Charleston	2016-08-30	2016-12-01	NA	NA	NA	NA
East Carolina University	2015-01-28	2015-02-11	NA	NA	NA	NA
Emory University	2014-11-03	2014-12-02	NA	NA	NA	NA
Florida Atlantic University	2017-11-28	2018-03-01	NA	NA	NA	NA
Florida International University	2018-01-01	2018-02-05	NA	NA	NA	NA
Florida State University	2017-11-06	2018-03-26	NA	NA	NA	NA
Indiana University-Bloomington	2017-11-27	2018-02-28	NA	NA	NA	NA
Louisiana State University and Agricultural & Mechanical College	2017-09-14	2017-10-12	2017-10-19	2018-03-01	NA	NA
Marshall University	2018-03-05	2018-03-26	NA	NA	NA	NA
Monmouth University	2018-09-06	2019-01-16	NA	NA	NA	NA
Murray State University	2018-05-09	2018-08-27	NA	NA	NA	NA
North Carolina State University at Raleigh	2015-03-20	2015-05-09	NA	NA	NA	NA
Ohio State University-Main Campus	2017-11-16	2018-02-07	NA	NA	NA	NA
Ohio University-Main Campus	2019-10-03	2019-10-25	NA	NA	NA	NA
Rollins College	2017-02-21	2017-04-14	NA	NA	NA	NA
Rutgers University-New Brunswick	2015-04-06	2015-05-01	NA	NA	NA	NA
San Diego State University	2014-11-25	2015-01-09	2018-03-09	2018-10-04	2019-11-09	2020-01-17
Syracuse University	2019-11-17	2019-12-09	NA	NA	NA	NA
Texas State University	2017-11-14	2018-02-26	NA	NA	NA	NA
Tufts University	2016-11-16	2017-01-19	NA	NA	NA	NA
University at Buffalo	2019-04-12	2019-08-21	NA	NA	NA	NA
University of California-Berkeley	2016-10-16	2016-10-26	NA	NA	NA	NA
University of Central Florida	2018-01-08	2018-03-05	NA	NA	NA	NA
University of Idaho	2017-12-12	2018-03-13	NA	NA	NA	NA
University of Iowa	2017-05-01	2019-08-27	NA	NA	NA	NA
University of Kansas	2018-03-12	2018-03-18	NA	NA	NA	NA
University of Michigan-Ann Arbor	2017-11-09	2018-01-03	NA	NA	NA	NA
University of Missouri-Columbia	2018-03-06	2018-03-13	NA	NA	NA	NA
University of New Mexico-Main Campus	2017-12-08	2018-02-19	NA	NA	NA	NA
University of Pittsburgh-Pittsburgh Campus	2018-01-19	2018-08-30	NA	NA	NA	NA
University of Vermont	2019-02-05	2019-04-02	NA	NA	NA	NA
University of Virginia-Main Campus	2014-11-22	2015-01-07	NA	NA	NA	NA
Washington State University	2016-11-07	2017-01-09	2019-11-14	2020-01-27	NA	NA
West Virginia University	2014-11-13	2015-02-01	2018-02-14	2018-08-01	NA	NA

Note:

Universities can have multiple moratoriums in the sample period. Each moratorium date was verified by either a Fraternity and Sorority Life advisor, a news article, or a Freedom of Information Request. However, the first San Diego State University moratorium end date could not be directly verified by either a fraternity or sorority advisor, news article, or public record request. However, based on the following news article link, I am confident that the moratorium ended before the start of the 2015 semester. Link: https://newscenter.sdsu.edu/sdsu_newscenter/news_story.aspx?sid=75357

Figure 1: An Example of Fraternity Membership Guidelines
Notes: These are the membership guidelines for Sigma Alpha Epsilon, one of the oldest IFC fraternities in the nation.

Table 2: Comparison of all Relevant Data Sources

	Data Source			
	Daily Crime Logs	Campus Safety and Security	NIBRS	UCR
Source and Requirement:				
Source of Data:	University Police Departments	US Department of Education	FBI	FBI
Reporting Mandate:	By-law	By-law	Voluntary	Voluntary
Aggregation and Consistency				
Level of Aggregation:	Incident-level	Yearly	Incident-level	Monthly
Fraction Reporting Consistently:	1.000	1.000	0.368	0.789
Offenses Reported and Location				
Alcohol Violations:	All Incidences Reported	All Incidences Reported	Arrests Only	None
Sexual Assaults:	All Incidences Reported	All Incidences	All Incidences Reported	Hierarchy Rule
Drug Offenses:	All Incidences Reported	All Incidences Reported	All Incidences Reported	None
Residence Hall Information:	No	Yes	No	No
Analysis in Paper:	Main Analysis	Secondary	Not Used	Not Used

[a] The Daily Crime Logs are used for the main analysis due to the advantages it has over the other sources. NIBRS stands for the National Incidence Based Reporting System. UCR stands for Uniform Crime Reporting Program. The fraction reporting consistency refers to the fraction of the sample university police departments. Hierarchy Rule is where only the most serious crime in an incident is reported. While over 50 percent of UCR data is displayed to be reported consistently, it is actually truly unknown since NAs and 0s are the same.

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Indiana University, Bloomington
Police Department
Student Right To Know CAD Daily Log

From Jan 20, 2014 to Jan 20, 2014.

Date Reported: 01/20/14 - MON at 12:22	**Location :** EIGENMANN HALL	**Event #:** 14-01-20-001434
Date and Time Occurred From - Occurred To		
Incident : NARCOTIC/DRUG LAWS - POSSESSION - MARIJUANA		**Report #:**
Disposition: FAILED TO LOCATE		

Date Reported: 01/20/14 - MON at 17:03	**Location :** ALL OTHER ROADWAYS/INTERS	**Event #:** 14-01-20-001446
Date and Time Occurred From - Occurred To 01/20/14 - MON at 17:02 - 01/20/14 - MON at 17:03		
Incident : NARCOTIC/DRUG LAWS - POSSESSION - MARIJUANA		**Report #:** 140154
Disposition: CLOSED BY ARREST		

Date Reported: 01/20/14 - MON at 19:30	**Location :** EIGENMANN HALL	**Event #:** 14-01-20-001464
Date and Time Occurred From - Occurred To		
Incident : NARCOTIC/DRUG LAWS - POSSESSION - MARIJUANA		**Report #:**
Disposition: FAILED TO LOCATE		

Date Reported: 01/20/14 - MON at 20:22	**Location :** EIGENMANN HALL	**Event #:** 14-01-20-001466
Date and Time Occurred From - Occurred To		
Incident : NARCOTIC/DRUG LAWS - POSSESSION - MARIJUANA		**Report #:**
Disposition: FAILED TO LOCATE		

Date Reported: 01/20/14 - MON at 20:45	**Location :** FOSTER HARPER HALL	**Event #:** 14-01-20-001468
Date and Time Occurred From - Occurred To		
Incident : NARCOTIC/DRUG LAWS - POSSESSION - MARIJUANA		**Report #:**
Disposition: FAILED TO LOCATE		

Date Reported: 01/20/14 - MON at 21:38	**Location :** ALL OTHER NON-UNIVERSITY	**Event #:** 14-01-20-001476
Date and Time Occurred From - Occurred To		
Incident : ALL OTHER OFFENSES - HARASSMENT/INTIMIDATION		**Report #:**
Disposition: NO CASE REPORT		

Date Reported: 01/20/14 - MON at 21:53	**Location :** ROSE AVE RESIDENCE HALL	**Event #:** 14-01-20-001479
Date and Time Occurred From - Occurred To		
Incident : NARCOTIC/DRUG LAWS - POSSESSION - MARIJUANA		**Report #:**
Disposition: FAILED TO LOCATE		

Date Reported: 01/20/14 - MON at 22:30	**Location :** COLLINS COMMON AREA	**Event #:** 14-01-20-001486
Date and Time Occurred From - Occurred To		
Incident : NARCOTIC/DRUG LAWS - POSSESSION - MARIJUANA		**Report #:**
Disposition: FAILED TO LOCATE		

Date Reported: 01/20/14 - MON at 23:02	**Location :** FOREST QUAD	**Event #:** 14-01-20-001487
Date and Time Occurred From - Occurred To 01/20/14 - MON at 22:45 - 01/20/14 - MON at 23:02		
Incident : NARCOTIC/DRUG LAWS - POSSESSION - MARIJUANA		**Report #:** 140157
Disposition: CLOSED NO ARREST.		

Date Reported: 01/20/14 - MON at 23:07	**Location :** FOSTER JENKINSON HALL	**Event #:** 14-01-20-001491
Date and Time Occurred From - Occurred To		
Incident : NARCOTIC/DRUG LAWS - POSSESSION - MARIJUANA		**Report #:**
Disposition: FAILED TO LOCATE		

Date Reported: 01/20/14 - MON at 23:35	**Location :** ALL OTHER OPEN AREAS	**Event #:** 14-01-20-001494
Date and Time Occurred From - Occurred To 01/20/14 - MON at 23:35 - 01/20/14 - MON at 23:41		
Incident : ASSAULT - OTHER ASSAULTS - SIMPLE, NOT AGGRAVATED		**Report #:** 140159
Disposition: CLOSED BY ARREST.		

11 Incidents Listed.

Print Date and Time   1/21/2014   12:23:52PM   at Page No.   1

Figure 2: An Example of a Daily Crime Log

Notes: The main analysis uses data from 38 universities' Daily Crime Logs - each unique in their own respect. All Daily Crime Logs had to be requested from each university and harmonized using pattern matching.

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Table 3: The Top 30 Most Frequently Reported Incidents

Sexual Assault	Alcohol Offense	Drug Offense
(394) rape	(2882) alcohol offense	(3312) drugs
(379) sexual assault	(2311) abcc violation	(2906) drug incident
(301) sex offense	(1272) intoxicated person	(1852) possession of controlled substances
(184) sexual battery	(1216) dui	(1182) possession - marijuana
(144) csa report: rape	(1010) intx-intoxicated person	(1001) narcotics
(114) criminal sexual conduct	(785) buying, consume while underage	(835) drug violation
(88) campus security authority-sex offense	(764) minor in possession	(743) drug violation - vcsa
(77) assist other agency-sex offense	(740) possession/supply alcohol u/21	(729) possession of drugs
(69) sexual abuse 3rd degree	(710) public intox	(680) possession of drug paraphernalia
(62) sex offenses	(702) liquor laws	(605) drug paraphernalia
(56) sex offense - anonymous	(695) driving under the influence	(587) possession of drugparaphernalia
(41) sxof-sex offense	(625) driving under the influence not counted for ucr	(572) controlled substance problem
(38) forcible fondling	(620) public intoxication	(503) drug violation / vcsa
(38) sex crime	(507) mip	(441) possession ofmarijuana
(36) sex offense (except forcible rape or prostitution)	(482) offenses involving underage persons	(338) possession of marijuana and thc
(36) sexual assault using physical force orcoercion; victim does not sustain severepersonal injury	(476) liquor law referral	(331) poss of drug paraphernalia possession marijuana/hash under
(32) 3rd party report sexual abuse 3rd degree	(467) liquor law arrest	(320) drug law referral
(32) forcible sex offense	(456) intoxication	(304) violation of controlled substances
(32) sexual imposition	(435) minors in possession of alcohol	(292) drug-csc sanction only
(31) sex offenses - forcible	(386) liquor laws - illegal possession/consumption	(288) drug law violation
(31) sex offenses sex offenses	(377) intoxicated subjects	(288) medical - medical aid - alcohol/drug
(30) sexual abuse	(349) campus security authority-liquor law violation	(282) narcotic/drug laws - possession - marijuana
(28) anonymous sexual assault	(318) all other offenses (except traffic) liquor laws	(268) possession marijuana, hashish, etc. possession marijuana, hashish, etc.
(27) late reported sexual assault	(288) alcohol violation	(263) possession marijuana, hashish, etc.
(25) sex offense/forcible rape	(288) medical - medical aid - alcohol/drug	(245) smell of marijuana
(23) rape rape	(283) public drunkenness	(242) possession marijuana/hash under poss of drug paraphernalia
(23) rape–rape -report	(251) driving while intoxicated	(242) simple possession of marijuana
(21) anonymous late reported sexual assault	(251) intox person 2	(232) 966 - drug law violation
(21) criminal sexual contact	(237) liquor laws illegal possession/consumption	(211) possession marijuana
(20) sex offenses–sexual battery	(213) mip-alcohol	(203) drug law arrest

Note:
Numbers in parenthesis denote the frequency of offense in the data. These offenses represent the 30 most frequent crimes in each category after the pattern-matching algorithm is applied.
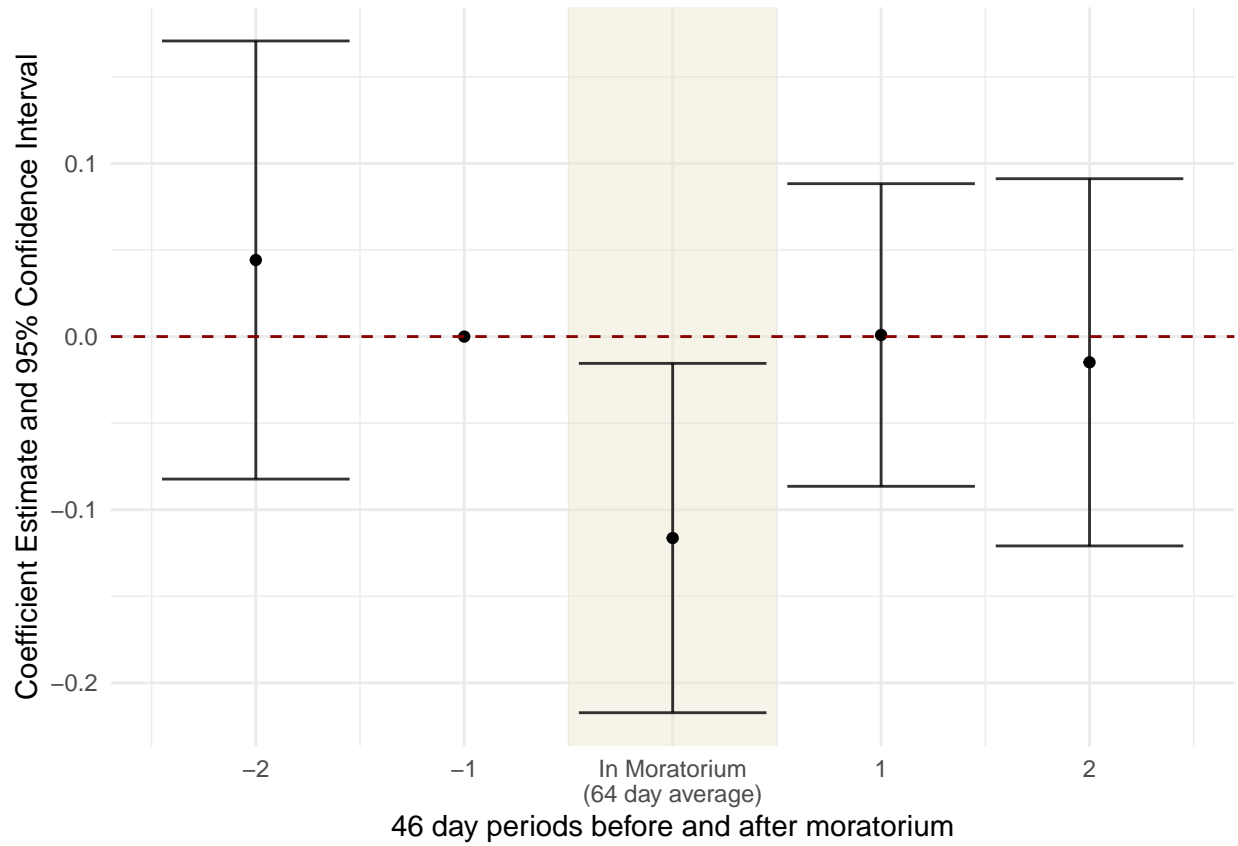
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Figure 3: Event Study for Alcohol Offenses

Notes: The shaded area point estimate represents an entire moratorium period for each university. Hence, the shaded area point estimate has varying amounts of days within based on the university. For instance, Arkansas State University had a 39 day moratorium and therefore their shaded area point estimate would be identified by the 39 moratorium days. Point estimates not within the shaded region are 46 day periods. Number of days within a period was chosen to give approximately two median-length (46 days) moratorium on each side of the shaded area. All periods are normalized by the 46-day period before the moratorium. Alcohol offenses are defined as alcohol offenses per-25000 enrolled students. Controls include holiday, spring semester, day of the week and university by academic year. Standard errors clustered by university. All errorbars represent 95% confidence intervals.
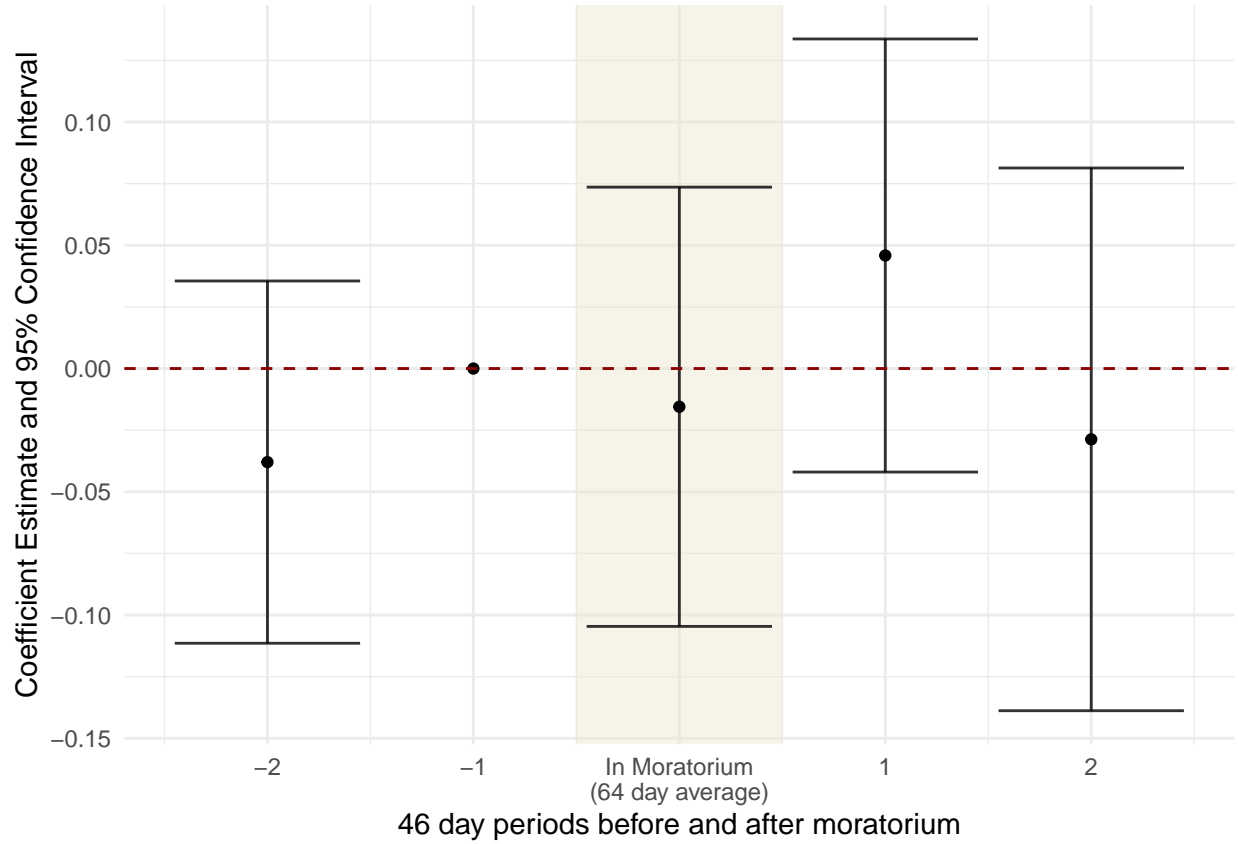
Figure 4: Event Study for Drug Offenses

Notes: The shaded area point estimate represents an entire moratorium period for each university. Hence, the shaded area point estimate has varying amounts of days within based on the university. For instance, Arkansas State University had a 39 day moratorium and therefore their shaded area point estimate would be identified by the 39 moratorium days. Point estimates not within the shaded region are 46 day periods. Number of days within a period was chosen to give approximately two median-length (46 days) moratorium on each side of the shaded area. All periods are normalized by the 46-day period before the moratorium. Drug offenses are defined as drug offenses per-25000 enrolled students. Controls include holiday, spring semester, day of the week and university by academic year. Standard errors clustered by university. All errorbars represent 95% confidence intervals.
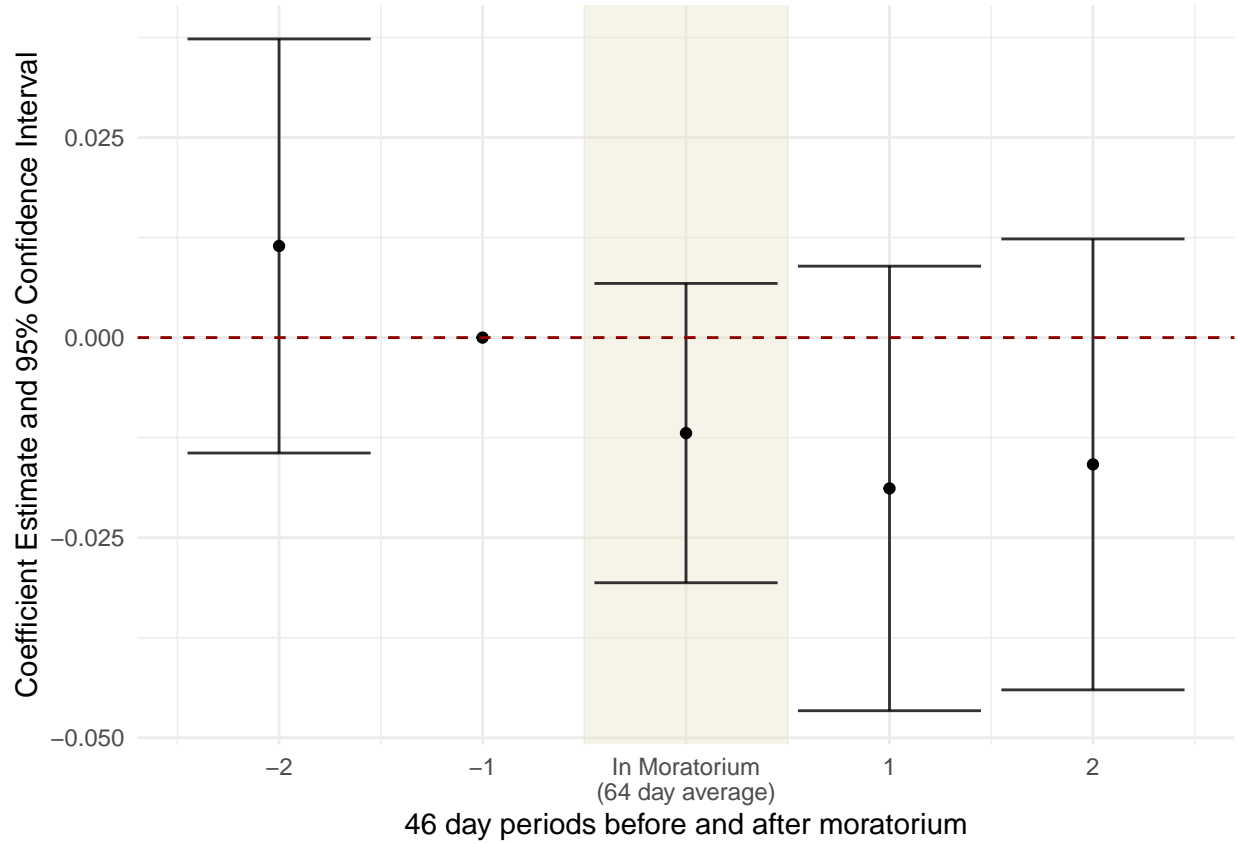
Figure 5: Event Study for Sexual Assault Offenses

Notes: The shaded area point estimate represents an entire moratorium period for each university. Hence, the shaded area point estimate has varying amounts of days within based on the university. For instance, Arkansas State University had a 39 day moratorium and therefore their shaded area point estimate would be identified by the 39 moratorium days. Point estimates not within the shaded region are 46 day periods. Number of days within a period was chosen to give approximately two median-length (46 days) moratorium on each side of the shaded area. All periods are normalized by the 46-day period before the moratorium. Sexual assault offenses are defined as sexual assault offenses per-25000 enrolled students. Controls include holiday, spring semester, day of the week and university by academic year. Standard errors clustered by university. All errorbars represent 95% confidence intervals.

Table 4: Effect of Moratoriums on Alcohol Offenses, Drug Offenses, and Sexual Assault (Poisson Regressions).

	(1)	(2)	(3)	(4)
Panel A: Alcohol Offenses				
In Moratorium	0.066	-0.237*	-0.324***	-0.360***
	(0.261)	(0.097)	(0.085)	(0.101)
Observations	56514	56514	55550	53820
Mean of Dependent Variable	0.533	0.533	0.533	0.533
Panel B: Drug Offenses				
In Moratorium	-0.027	-0.135*	-0.022	-0.079
	(0.137)	(0.056)	(0.053)	(0.069)
Observations	56514	56514	56026	54794
Mean of Dependent Variable	0.492	0.492	0.492	0.492
Panel C: Sexual Assaults				
In Moratorium	0.057	-0.150*	-0.179+	-0.172
	(0.147)	(0.073)	(0.105)	(0.109)
Observations	56514	56514	54304	51356
Mean of Dependent Variable	0.053	0.053	0.053	0.053
Controls for Panels A-C				
FE: Day of Week		X	X	X
FE: Holiday		X	X	X
FE: Semester (Spring/Fall)		X	X	X
FE: University		X		
FE: Academic Year		X		
FE: University by Academic Year			X	
FE: University by Academic Year by Semester				X

Table 5: Effect of Moratoriums on Alcohol Offenses, Drug Offenses, and Sexual Assault by Weekend/Weekdays.

	Days of the Week		
	All Days	Weekends	Weekdays
Panel A: Alcohol Offenses			
In Moratorium	-0.324***	-0.358***	-0.221
	(0.085)	(0.091)	(0.160)
Observations	55550	23179	30621
Mean of Dependent Variable	0.497	0.892	0.201
Panel B: Drug Offenses			
In Moratorium	-0.022	-0.073	0.023
	(0.053)	(0.057)	(0.073)
Observations	56026	23731	31713
Mean of Dependent Variable	0.432	0.495	0.385
Panel C: Sexual Assaults			
In Moratorium	-0.179+	-0.338*	-0.021
	(0.105)	(0.138)	(0.129)
Observations	54304	22376	28801
Mean of Dependent Variable	0.055	0.064	0.047
Controls for Panels A-C:			
FE: Day of Week	X	X	X
FE: Holiday	X	X	X
FE: Semester (Spring/Fall)	X	X	X
FE: University by Academic Year	X	X	X

Note:
Standard errors are clustered by university and each offense is defined as a count. Observation values may vary between estimations due to no variation with particular fixed effects soecifications. Weekends consist of Fridays, Saturdays, and Sundays. Weekdays consist of Monday through Thursday. Holiday controls include controls for Veterans Day, Thanksgiving, Labor Day, Halloween, and MLK Day. Christmas/New Years/July 4th are not included since not in panel. A moratorium is a temporary halt on fraternity-related activities with alcohol.
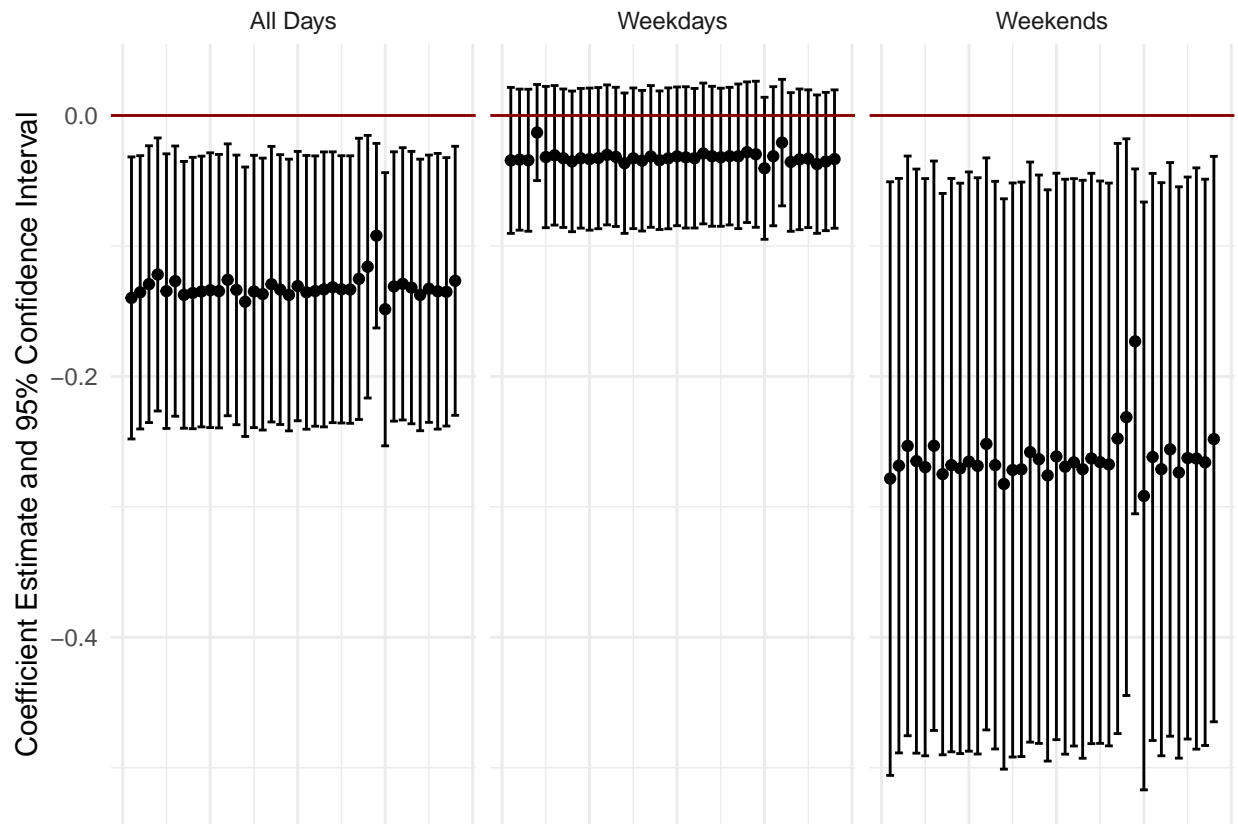+ $p < 0.1$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Figure 6: Leave-one-out OLS Regressions of Alcohol Offenses

Notes: Each point represents specification (3) from Table **??** with one university omitted from the sample. Offenses are per-25000 enrolled students. Errorbars represent 95% confidence intervals. Weekends includes only Friday, Saturday, Sunday, while weekdays includes Monday through Thursday.
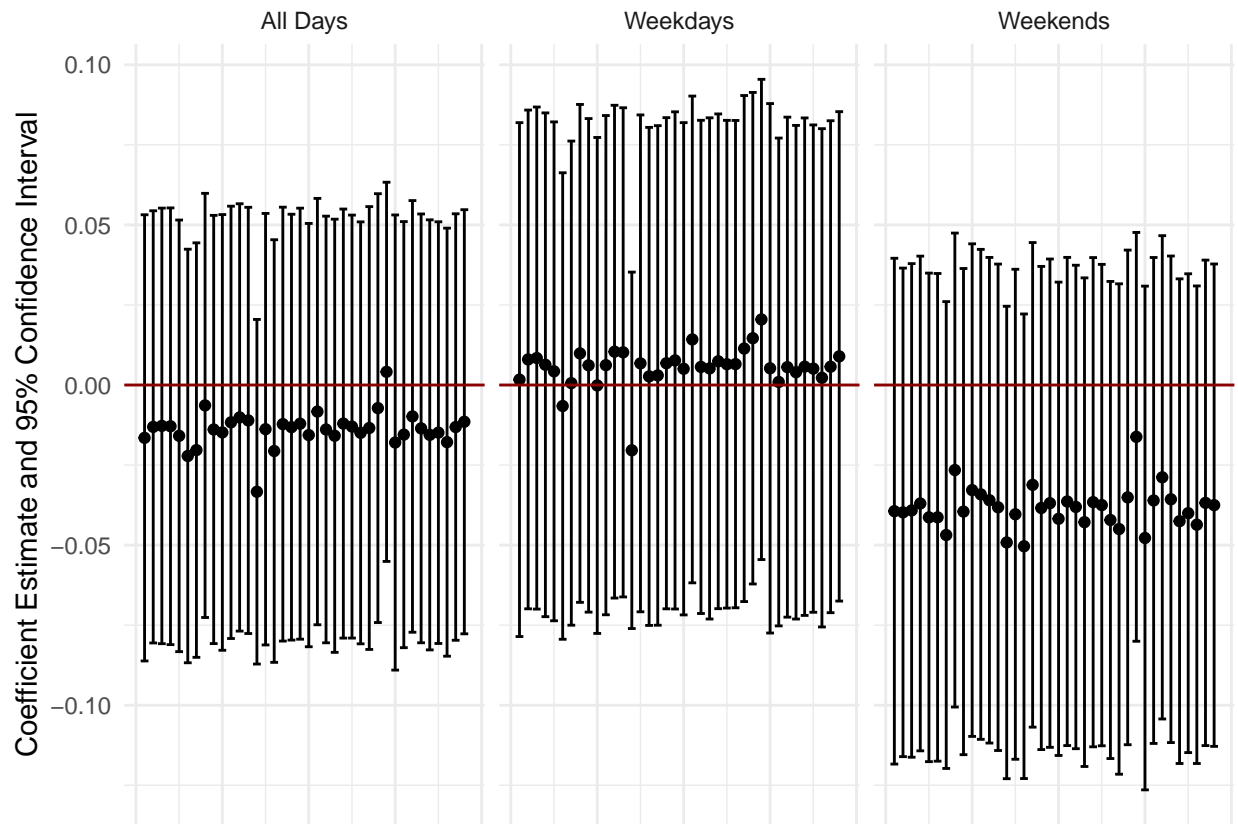
Figure 7: Leave-one-out OLS Regressions of Alcohol Offenses

Notes: Each point represents specification (3) from Table **??** with one university omitted from the sample. Offenses are per-25000 enrolled students. Errorbars represent 95% confidence intervals. Weekends includes only Friday, Saturday, Sunday, while weekdays includes Monday through Thursday.
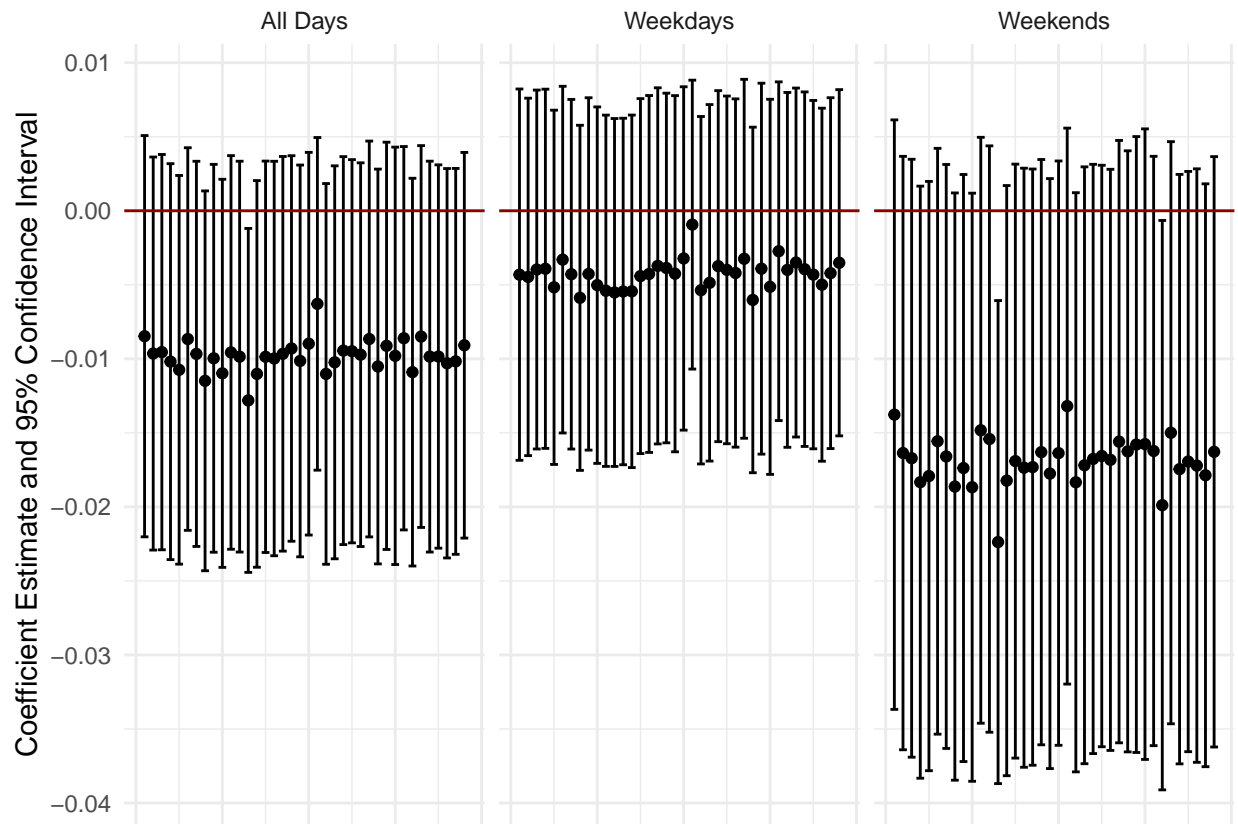
Figure 8: Leave-one-out OLS Regressions of Alcohol Offenses

Notes: Each point represents specification (3) from Table **??** with one university omitted from the sample. Offenses are per-25000 enrolled students. Errorbars represent 95% confidence intervals. Weekends includes only Friday, Saturday, Sunday, while weekdays includes Monday through Thursday.