

Introduction

Introduction

Over 800 universities in the United States have fraternities (Hechinger 2017). Existing literature has documented benefits of membership which include higher future income (Mara, Davis, and Schmidt 2018) and significantly more hours spent participating in community service and volunteering (Hayek et al. 2002; Asel, Seifert, and Pascarella 2009). Moreover, according to a Gallup survey in 2021, over 80 percent of fraternity alumni agreed that they would join their fraternity if they were to redo their college experience.

Despite these benefits, fraternity membership has been associated with risky behaviors. In particular, at least one hazing-related death has occurred each year in the US between the years 2000 and 2019,¹ and studies have found that fraternity members binge drink and party more frequently than their non-member peers (DeSimone 2007; Routon and Walker 2014). While universities have regularly banned specific misbehaving fraternities from their campuses, the past decade popularized a new policy tool called *moratoriums*—campus-wide halts on fraternity social events with alcohol—as a way to change member behavior.

This paper is the first to estimate the causal effects of moratoriums on campus-wide police reports of alcohol offenses and sexual assaults. Between 2010 and 2019, over 50 moratoriums have been enacted across university campuses, thus becoming a common policy used by school administrators. However, no prior research has investigated this topic; moratorium dates are difficult to find/confirm and there does not exist a centralized data source for university-specific crime with fine enough detail to enable casual inference. Despite the lack of research surrounding the efficacy of moratoriums, administrators continue to implement moratoriums as a disciplinary action on fraternities.

Nonetheless, how these moratoriums affect student behavior, and thus on-campus crime, is theoretically unclear. On one hand, prohibiting alcohol from fraternity social events may reduce incidences of crime. Fraternities are a source of alcohol for underage drinking, as fraternities are typically a mix of lower and upperclassmen (Armstrong, Hamilton, and Sweeney 2006). The inclusion of legal-age drinkers and large social events facilitates access to alcohol for underage students. Given that the literature has documented that alcohol causes higher prevalence of crimes such as assaults and alcohol offenses (Carpenter and Dobkin 2015), road accidents and arrests (Francesconi and James 2019), and reports of rape (Zimmerman and Benson 2007; Lindo, Siminski, and Swensen 2018), prohibiting such events could reduce the incidence of on-campus crime—especially for underage students. On the other hand, moratoriums may have the opposite effect. Without alcohol-fueled fraternity parties, students may substitute away from consuming alcohol at fraternity houses to potentially riskier places off-campus where behavior is less regulated by the university. As a result, the net effect of moratoriums remains ambiguous.

In this paper, I estimate the causal effect of 44 fraternity moratoriums across 37 universities over a six-year period (2014-2019) on university police reports of alcohol offenses and sexual assaults. I use a difference-in-differences identification strategy, leveraging the variation in timing of moratoriums. Intuitively, I compare academic-calendar days (e.g., excluding summer and winter breaks) with a moratorium to academic-calendar days without a moratorium while accounting for expected differences across days of the week and different times of the year. I construct a novel data set, merging two particularly unique data sources: university-specific Daily Crime Logs, which contain the universe of all incidences of crime reported to the university police at the incident-level, and moratorium start and end dates obtained through school newspapers and public records requests.

¹This is based on the online repository of hazing deaths from journalist Hank Nuwer. See here: <https://www.hanknuwer.com/hazing-destroying-young-lives/>

Using these data, I find that moratoriums significantly decrease alcohol offenses campus-wide by 26%. This effect is driven by weekends (Fridays-Sundays) when college partying is most frequent and is robust across various specifications, estimation methods, and sensitivity tests. Furthermore, I find suggestive evidence that reports of sexual assaults decrease by 29% on the weekends. Both of these declines are concentrated only when a moratorium is in place, therefore suggesting that there are no persistent effects once a moratorium is lifted. In particular, the immediate and subsequent weeks following a moratorium show little evidence that alcohol offenses or sexual assaults significantly decline and this is consistent across moratoriums of different lengths.

A key distinction of this work is that I am able to closely link changes in student behavior to a campus-wide policy that directly affects college partying. As a result, this study provides further evidence that stronger sanctions on alcohol decrease the number alcohol-related incidents in college-aged individuals, consistent with [Liang and Huang \(2008\)](#) who study zero-tolerance drunk driving laws. However, unlike state or federal laws, moratoriums are unique in that university officials have the power to enact them immediately and indefinitely. This makes moratoriums an appealing policy tool as university officials can implement them at times when they see fit. Moratoriums therefore represent an understudied policy lever that university officials can readily use to reduce campus-wide partying, which in-turn, may affect alcohol and sexual assault incidence.

More broadly, this paper adds to the literature in several bodies of work, the first of which is the effect of college partying. While [Lindo, Siminski, and Swensen \(2018\)](#) find that college partying increases daily reports of rape and alcohol offenses using college football game variation, this study more directly focuses on a policy tool that reduces college partying. As a consequence, I later discuss in Section ?? that moratoriums may have mitigating effects on college partying behavior when coinciding with college football game-days. Second, this paper contributes to an emerging body of economic work relating to fraternity policy. [De Donato and Thomas \(2017\)](#) and [Even and Smith \(2020\)](#) each study the effects of deferring fraternity recruitment from freshman to sophomore year. However, these works focus on academic outcomes rather than university crime. As of this writing, only one related work has focused on fraternities and crime ([Raghav and Diette 2021](#)), although this study focuses on how the size of a fraternity population effects campus crime rather than the effect of a typical fraternity policy. Last, this paper adds to the literature relating to the effects of alcohol on college-aged individuals which include health effects, such as increases in mortality ([Carpenter and Dobkin 2009](#)) and emergency room visits ([Francesconi and James 2019](#)), and behavioral effects, such as increases in crime ([Carpenter and Dobkin 2015](#)) and hindering academic performance ([Carrell, Hoekstra, and West 2011](#); [Ha and Smith 2019](#)).

This paper proceeds as follows: Section ? discusses the background on fraternities and moratoriums. Section ?? describes the construction of the data. Section ?? describes the empirical strategy used to estimate causal effects. Section ?? presents the main results. Section ?? explores the differences in effectiveness between different types of schools and moratoriums. Section ?? analyzes possible implications. Section ?? concludes.

Fraternities in the US

Fraternity Demographics and Oversight

On average, fraternities consist of students from families of higher-than-average educational attainment and income; they are predominantly white, and prior research has linked fraternity membership to positive outcomes such as increases in graduation rates ([Routon and Walker 2014](#)), future income ([Mara, Davis, and Schmidt 2018](#)), and social capital formation ([Mara, Davis, and Schmidt 2018](#)). On the other hand, fraternity members spend approximately two more hours per-week partying than nonmembers ([Routon and Walker 2014](#)), binge drink on approximately two additional days per-month ([DeSimone 2007](#)), and membership has been found to decrease GPA ([De Donato and Thomas 2017](#); [Even and Smith 2020](#)). Additionally, [Even and Smith \(2020\)](#) find that membership causes students to select into easier courses and complete fewer course credits. While not causal, there is also survey evidence that fraternity members are more accepting of sexual

violence than nonmembers (Seabrook 2019) and that sorority women, who frequently interact with fraternity men, are four times more likely to be victims of sexual assault than nonmembers (Minow and Einolf 2009).

This paper focuses on the Interfraternity Council (IFC) fraternities which are a type of social fraternity. These fraternities are the most common at universities and differ from professional, academic, or service fraternities. IFC fraternities participate in philanthropy and professional development, and according to their creed, they “exist to promote the shared interests and values of our member fraternities: leadership, service, brotherhood and scholarship” (Hechinger 2017). Importantly, IFC fraternities are the fraternities that are restricted by moratoriums in the sample.

Each IFC fraternity chapter² has three sources of oversight: the chapter national headquarters, the parent university, and the parent university’s own IFC council—a group of student representatives from each recognized IFC fraternity chapter whom regularly meet with university staff to discuss rules/boundaries. Failure to abide by the rules outlined by these overseers’ policies can result in a fraternity being unrecognized by the university which is costly—a fraternity relies on the university for new students to recruit.

Moratoriums

A moratorium is defined as a temporary ban on social events with alcohol for IFC fraternities.³ This can include the cancellation of new member recruitment, philanthropy activities, tailgates, or third party vendor events, although the breadth of restrictions differs by university. For example, some universities may allow philanthropy events provided no alcohol is present. Importantly, moratoriums differ from individual chapter suspensions. While universities may temporarily suspend individual fraternity chapters each year, moratoriums apply to all IFC fraternities. Moreover, the timing and length of a moratorium varies substantially. Figure ?? shows the start and end dates of each moratorium over time. Moratoriums in the sample can last as little as six calendar-days, or as long as 848 calendar-days.⁴ Additionally, moratoriums are generally implemented due to triggering events (see Figure ??). These events can be a prominent sexual assault allegation, a fraternity-related death (usually due to alcohol poisoning), or an extreme behavior violation.⁵ Figure ?? shows the distribution of the triggering events: 19 are triggered by behavior violations, 10 by sexual assaults, nine by a fraternity-related death, and six are unspecified. As alluded to in the introduction, moratoriums are enacted across the US. Figure ?? shows the locations of the 37 universities in the sample (see Section ?? for further details on sample construction) alongside the corresponding fraction of total enrollment in an IFC fraternity. Most universities are located in the Midwest and South, although there are several universities from both the West and East Coast. Note that the fraction of total enrollment belonging to an IFC is incomplete as only 33 of the 37 (89%) universities provided this information.

Moratoriums can be implemented by two sources of jurisdiction: the university or the IFC council.⁶ When a moratorium is implemented by the university, the university sets the guidelines that fraternities must abide by during the moratorium. On the other hand, an IFC-implemented moratorium is student-enforced. This means that the IFC council is responsible for producing both the guidelines and oversight of the moratorium. Figure ?? shows that IFC-implemented moratoriums are less frequent (17) than university-implemented moratoriums (27), and Section ?? examines the potential differences in oversight.

Armstrong, Elizabeth A., Laura Hamilton, and Brian Sweeney. 2006. “Sexual Assault on Campus: A Multilevel, Integrative Approach to Party Rape.” *Social Problems* 53 (4): 483–99. <https://doi.org/10.1525/sp.2006.53.4.483>.

²A chapter, otherwise known as a *house*, is a unique fraternity. A fraternity can have many chapters across the US, with usually one per-school.

³This is the minimum requirement for a moratorium in this paper. Some universities ban alcohol at social events for all IFC fraternities in addition to the rest of their Fraternity and Sorority Life. However, IFC fraternities are generally the main focus.

⁴Note the distinction between calendar-days and academic-calendar days. A calendar day represent the entire calendar, whereas an academic-calendar represents only the fall/spring semesters of the university school year.

⁵A behavior violation refers to hazing, rule violations, offensive behavior, and other disorderly conduct that results in a moratorium.

⁶Note that the fraternity’s chapter headquarters cannot impose a moratorium. Since chapter headquarters are unique to a fraternity chapter, they only have jurisdiction over one specific fraternity.

- Asel, Ashley, Tricia Seifert, and Ernest Pascarella. 2009. "The Effects of Fraternity/Sorority Membership on College Experiences and Outcomes: A Portrait of Complexity." *Oracle: The Research Journal of the Association of Fraternity/Sorority Advisors* 4 (2): 1–15. <https://doi.org/10.25774/2p5f-gt14>.
- Carpenter, Christopher, and Carlos Dobkin. 2009. "The Effect of Alcohol Consumption on Mortality: Regression Discontinuity Evidence from the Minimum Drinking Age." *American Economic Journal: Applied Economics* 1 (1): 164–82. <https://doi.org/10.1257/app.1.1.164>.
- . 2015. "The Minimum Legal Drinking Age and Crime." *The Review of Economics and Statistics* 97 (2): 521–24. https://doi.org/10.1162/REST_a_00489.
- Carrell, Scott E., Mark Hoekstra, and James E. West. 2011. "Does Drinking Impair College Performance? Evidence from a Regression Discontinuity Approach." *Journal of Public Economics* 95 (1): 54–62. <https://doi.org/10.1016/j.jpubeco.2010.08.008>.
- De Donato, Andrew, and James Thomas. 2017. "The Effects of Greek Affiliation on Academic Performance." *Economics of Education Review* 57 (April): 41–51. <https://doi.org/10.1016/j.econedurev.2017.01.004>.
- DeSimone, Jeff. 2007. "Fraternity Membership and Binge Drinking." *Journal of Health Economics* 26 (5): 950–67. <https://doi.org/10.1016/j.jhealeco.2007.01.003>.
- Even, William E., and Austin C. Smith. 2020. "Greek Life, Academics, and Earnings." *J. Human Resources*, March. <https://doi.org/10.3368/jhr.57.3.1018-9814R3>.
- Francesconi, Marco, and Jonathan James. 2019. "Liquid Assets? The Short-Run Liabilities of Binge Drinking." *The Economic Journal* 129 (621): 2090–2136. <https://doi.org/10.1111/ecoj.12627>.
- Ha, Joung Yeob, and Austin C. Smith. 2019. "Legal Access to Alcohol and Academic Performance: Who Is Affected?" *Economics of Education Review* 72: 19–22. <https://doi.org/http://dx.doi.org/10.1016/j.econedurev.2019.05.002>.
- Hayek, J. C., R. M. Carini, P. T. O'Day, and G. D. Kuh. 2002. "Triumph or Tragedy: Comparing Student Engagement Levels of Members of Greek-Letter Organizations and Other Students." <https://scholarworks.iu.edu/dspace/handle/2022/24308>.
- Hechinger, John. 2017. *True Gentlemen: The Broken Pledge of America's Fraternities*. 1st ed. Hachette Book Group, Inc.
- Liang, Lan, and Jidong Huang. 2008. "Go Out or Stay in? The Effects of Zero Tolerance Laws on Alcohol Use and Drinking and Driving Patterns Among College Students." *Health Economics* 17 (11): 1261–75. <https://doi.org/10.1002/hec.1321>.
- Lindo, Jason M., Peter Siminski, and Isaac D. Swensen. 2018. "College Party Culture and Sexual Assault." *American Economic Journal: Applied Economics* 10 (1): 236–65. <https://doi.org/10.1257/app.20160031>.
- Mara, Jack, Lewis Davis, and Stephen Schmidt. 2018. "Social Animal House: The Economic and Academic Consequences of Fraternity Membership." *Contemporary Economic Policy* 36 (2): 263–76. <https://doi.org/10.1111/coep.12249>.
- Minow, Jacqueline Chevalier, and Christopher J. Einolf. 2009. "Sorority Participation and Sexual Assault Risk." *Violence Against Women* 15 (7): 835–51. <https://doi.org/10.1177/1077801209334472>.
- Raghav, Manu, and Timothy M. Diette. 2021. "Greek Myth or Fact? The Role of Greek Houses in Alcohol and Drug Violations on American Campuses." SSRN Scholarly Paper ID 3908875. Rochester, NY: Social Science Research Network. <https://doi.org/10.2139/ssrn.3908875>.
- Routon, P. Wesley, and Jay K. Walker. 2014. "The Impact of Greek Organization Membership on Collegiate Outcomes: Evidence from a National Survey." *Journal of Behavioral and Experimental Economics* 49 (April): 63–70. <https://doi.org/10.1016/j.socrec.2014.02.003>.
- Seabrook, Rita C. 2019. "Examining Attitudes Towards Sexual Violence and IPV Prevention Activities Among Fraternity Members with Official and Unofficial Houses." *Journal of American College Health* 0 (0): 1–6. <https://doi.org/10.1080/07448481.2019.1679153>.

Zimmerman, Paul R., and Bruce L. Benson. 2007. "Alcohol and Rape: An 'Economics-of-Crime' Perspective." *International Review of Law and Economics* 27 (4): 442–73. <https://doi.org/10.1016/j.irle.2007.09.002>.