# Academic Stress and Study Habits

## Research Topic

#### Research Questions

- O How do undergraduate students cope with academic stress?
- What is the relationship between perceived academic stress and preferred study method?
- What is the relationship between perceived academic stress and deviant behavior?

#### Significance

- College students experiment with substances more than other 18-25 yearolds
- College students are willing to take extreme measures to match workload
- Non-medical prescription stimulant use highest among college students and is steadily increasing (NSDUH 2016)

#### Theoretical Framework

#### Strain Theory - Merton (1938)

- Presents a way to study deviant behavior that arise based on social/cultural circumstance
- Strain = tension between "frame of aspirational reference" and access to legitimate means
- "literal demoralization" or "deinstitutionalization" of means (675)
  - O I.e. wealth accumulation in the U.S.
- Strain → deviance
- Problem: strain doesn't always lead to deviant behavior

#### General Strain Theory – Agnew (1992, 2002)

- Update: indirect relationship between strain and drug use
- Strain = disjunction between aspirations and expectations (or achievements)
- Strain → negative affective states
- Individuals may cope using "non-deviant" means
  - Minimize importance
  - Self-esteem
- Chronic strain = higher propensity for deviant behavior

## **Existing Literature**

- Use prevalence varies across studies 4% and 35% of undergraduate students
- Most research is only interested in relationship between non-med use and other drug use
  - Low and Gendaszek (2002) cocaine and MDMA
  - McCabe et al (2014) binge drinking and marijuana
- Less research on strain, criminological theory
  - "Prescribing Some Criminological Theory" Maahs et al (2016); "Academic strain and non-medical use of prescription stimulants among college students" – Ford and Schroeder (2009)
  - Strain = school importance vs. GPA
  - O Mixed results
- Criminalization of non-med users

## Methods and Sample

- Survey written and online through Qualtrics
- 100 UIUC undergraduates
  - O 34% freshman, 15% sophomore, 27% junior, 22% senior
  - 45% white, 25% Asian/pacific islander, 7% Latinx, 3% African-American
  - 60% female, women
- Follow-up interviews
  - Subjective meaning of "stress"
  - Perceptions of study drug use on campus
  - Discover underlying motivations not captured by survey data

## Data Analysis - Strain

- Operationalizing "Strain"
  - Inputs: hours per day, hours per week
  - Outputs: feeling prepared for class, feeling prepared for exams, GPA
  - O Input/Output score
    - OCoded variables 1-4
    - Sum of variables
    - O Inputs outputs
    - O High/low input/output
  - O High input, low output = under strain

#### **Strain Variable Groups** Strain Variable | Freq. Percent Cum. Outputs > inputs 15 15.00 15.00 76.00 no strain 61 61.00 under strain 24 24.00 100.00 100 100.00 Total I

# Data Analysis – Negative Affect

- Operationalizing "Negative Affective State"
  - Level of academic stress on an average day (none, low, moderate, high)
  - Perception of Academic Stress Scale (Bedewy and Gabriel (2015)
    - 19-item scale –Wilcoxon rank sum testresults TBD

Reported Level of Academic Stress by Strain Group Stress Average Day					
Strain Variable	none	low		ate high	Total +
outputs > inputs no strain under strain	1 0 <b>0</b>	3 8 <b>0</b>	7 31 <b>14</b>	4 22 <b>10</b>	15 61 <b>24</b>
- <del></del> Total	1	11	 52	 36	100

### PAS Scale – Frequent Responses

- Negative affect items
  - My teachers are critical of my academic performance (41% agree/strongly agree)
  - I fear failing courses this year
  - I think that my worry about examinations is a weakness of character
  - Teachers have unrealistic expectations of me (40% disagree)
  - The size of the curriculum (workload) is excessive (48% agree/strongly agree)
  - I believe that the amount of work assigned is too much (42% agree/strongly agree).
  - I am unable to catch up if I fall behind in my work (46% agree/strongly agree)
  - I struggle to balance my school-work and social life (60% agree/strongly agree)

## Data Analysis – Study Drugs

$\bigcirc$	Preferred	study	method
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- O Coffee, cramming
  - Not dependent on stress level
- Both stimulating methods
- Study Drug Use
  - Use rate consistent with literature
- Compared to the compared to
  - 62% regardless of use
- Estimated campus use
  - 47% about half

Has	s Used	Study Drug	Freq.	Percent	Cum.
	no yes		74 19	79.57 20.43	79.57 100.00
	Total		93		100.00

**Use Rates** 

#### Study Drug Use by Strain Variable

	Has Used Study Drug			
Strain Variable	no	yes	Total	
outputs > inputs no strain under strain	+ 12 <b>46</b> 16	+ 3 <b>10</b> 6	15 <b>56</b> 22	
Total	74	19	93	

## **Preliminary Findings**

- Study drug use at UIUC on higher end of the spectrum
- 88% of students report moderate/high academic stress on an average day
- Higher frequency of high academic stress among those under strain
- No direct relationship found between strain and study drug use
- O Positive association between negative affect and study drug use
  - 17% of "no strain" group have used study drug
  - 27% of "under strain" group have used study drug

#### Limitations and Future Research

- Compare the second of the s
  - Prescription status unknown
  - Small sample, college students not representative
  - Self-report data, social desirability bias
- Future research
  - Longitudinal study
  - Examine relationship with binge drinking
  - O Frequency, dosage of use