

Gaze Aversion: Door Placement's Effect on Classroom Attendance



Hayden Hobbick
Faculty Advisor: Dr. David Zuckerman
Central Washington University Economics





stablediffusionweb.com



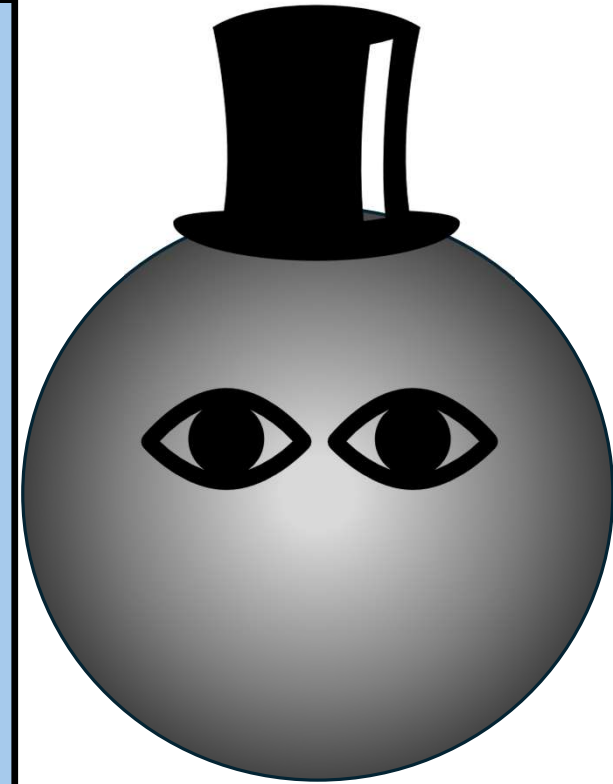
Research Question:

- Does the classroom door placement affect student attendance patterns at Central Washington University?

Motivation:

- Investigate human decision-making and an overlooked input to academic success.
- Behavior under both reputational concerns and direct observation.
- Inform community space design.

- Hypothesis: Classes with the door in the front are more likely to have a greater rate of absences than classes with the door in the back.
- Students prefer to avoid walking into the classroom late and being subjected to the judgmental eyes of their peers
- **Gaze Aversion:** *When agents are under reputational concerns, they are willing to incur a cost to avoid direct observation.*



Quarter

Week

Day

Time

Course Subject

Course #

Total Students

Building

Max Capacity

Door placement

*Subjective Importance of
Attendance*

Attendance Mandatory

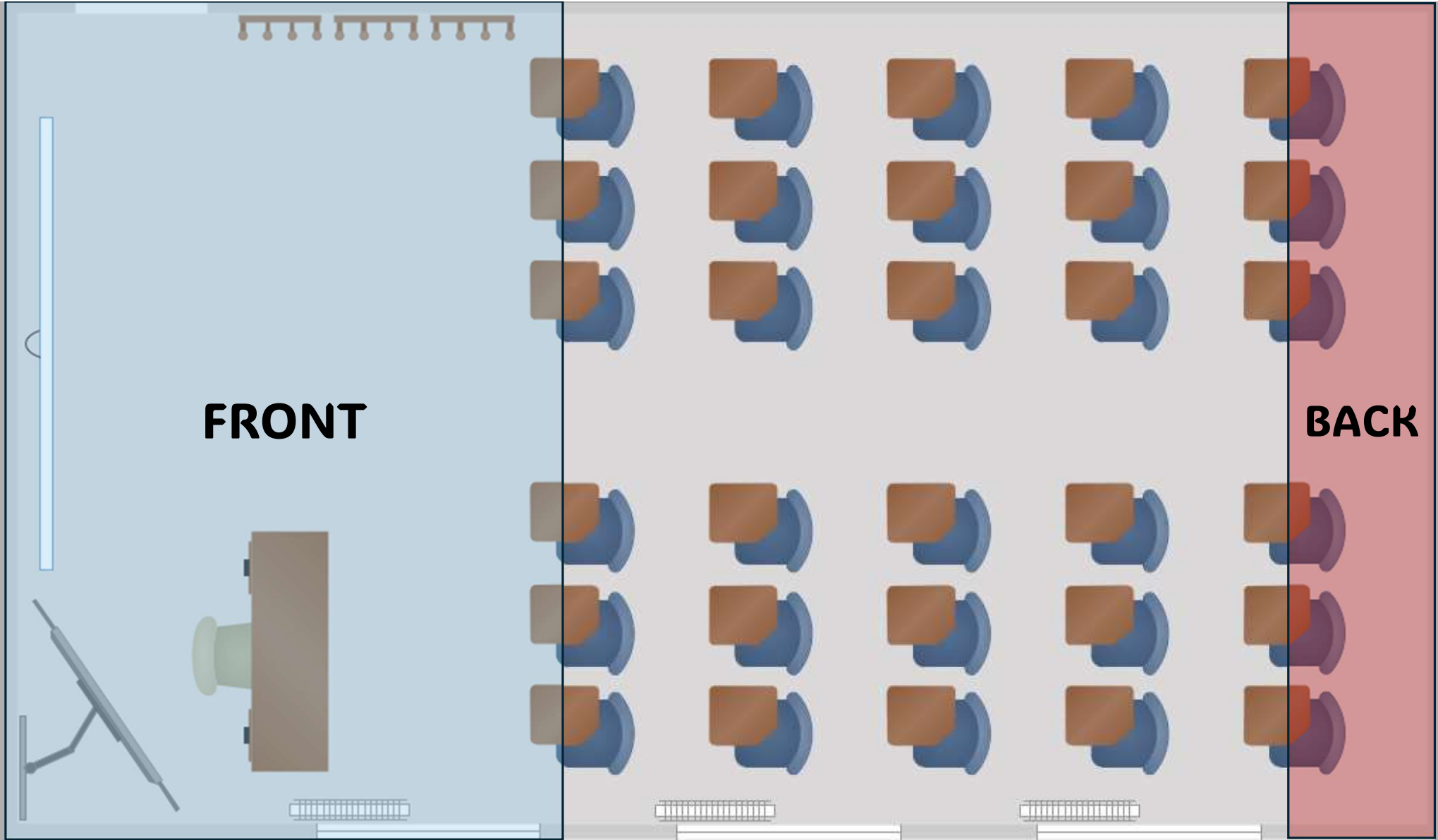
%Absent

%Late

%Excused Absent

FRONT

BACK



Course 1

Course Prefix and Number:

e.g., UNIV 101

Classroom:

e.g., Samuelson 115

Total # of Students in Class Roster:

e.g., 30

Attendance Data - Day 1

Which day are you reporting attendance for?

Select a day

Was attendance mandatory on this day? (Answer "Yes" if attendance on this day was counted toward a student's overall grade, or if there was an in-class exercise (e.g., a test) that counted toward a student's grade.)

Select an answer

Total # of Students Absent:

e.g., 2

of Excused Absences:^{1, 2}

of Students Late:²

1. Excused absences include students who have contacted you ahead of time with a legitimate reason for their absence. These students should also be included in the total number of student absences.

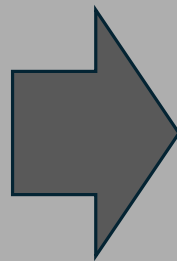
2. If you do not record excused absences and/or the number of late students, please leave the corresponding text box blank. If you **do** record these, and there were zero excused absences and/or late students, please enter "0".

Sample	Total Data	Subset w/ Late and Unexcused Data
# Observations	1695	567
# Unique Courses	77	44
# Front Door Obs.	974	295
# Back Door Obs.	721	272
% Mandatory Attendance	0.54	0.65
Avg. Class Size	22.44	13.88
Mean % Absent	0.23	0.14
Mean % Unexcused	NA	0.12
Mean % Late	NA	0.04

Variable	Back Door	Front Door
<i>Mean start time</i>	11.14	11.37
<i>Mean credit amount</i>	4.28	4.63
<i>% Upper-level course</i>	55%	26%
<i>Mean class size</i>	22.34	22.52
<i>% Mandatory attendance</i>	63%	47%
<i>Mean subjective importance</i>	5.99	5.37

Balance Check

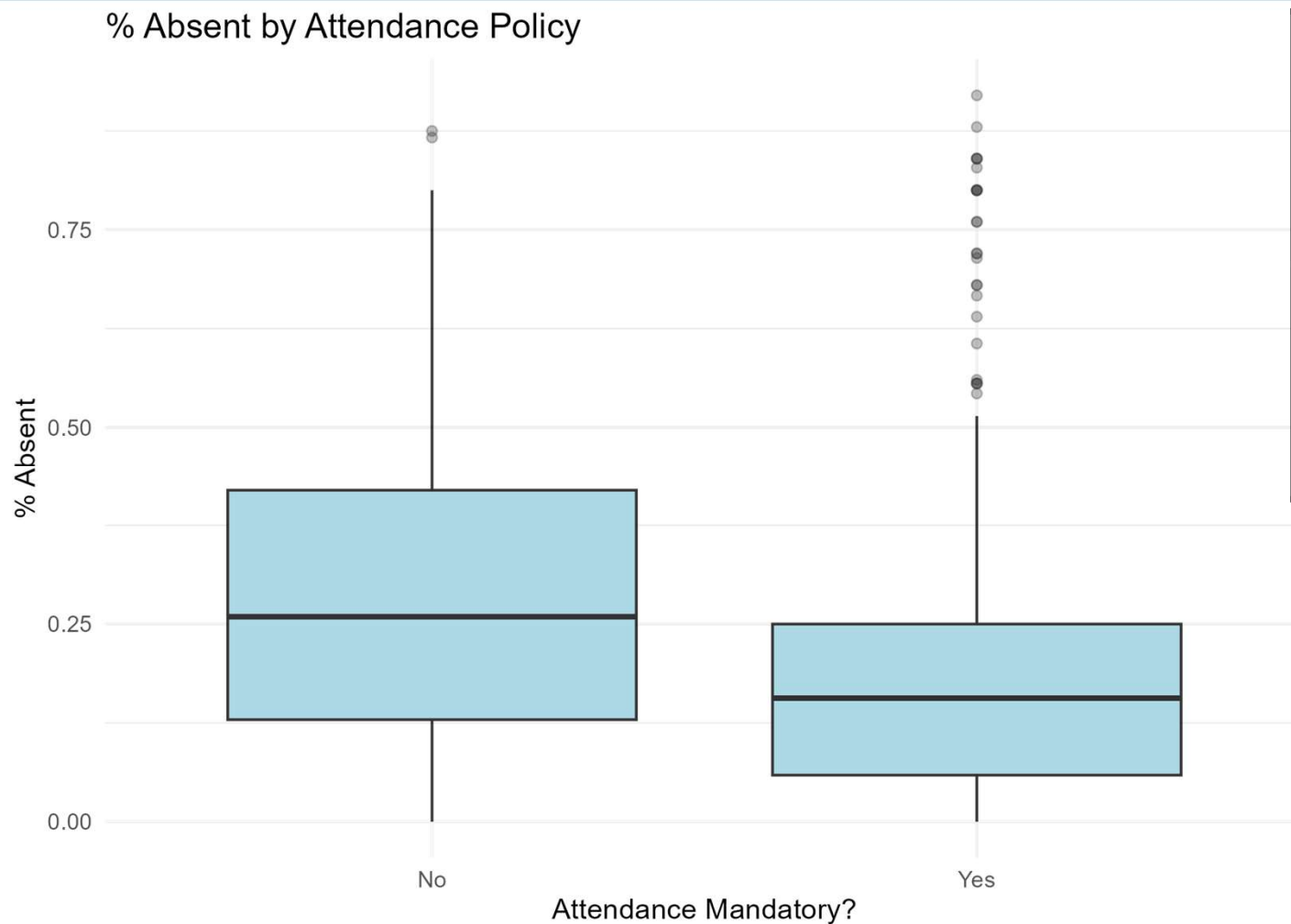
Compares the distribution of control variables across our two different door conditions



Back Door

Earlier start time
Higher course level
Smaller class size
Higher importance of attendance

% Absent by Attendance Mandatory

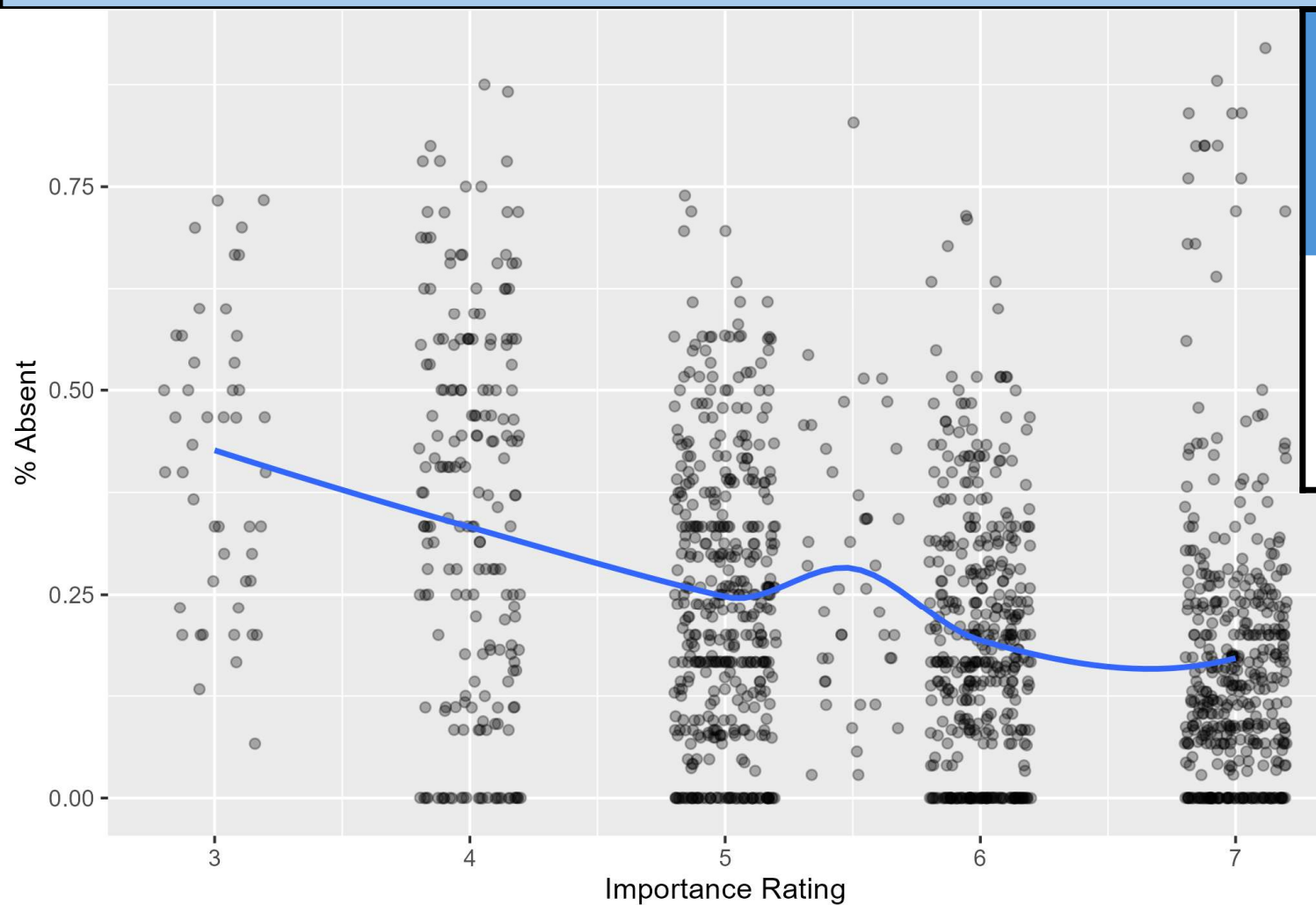


Door placement	% Mandatory attendance
Back Door	63%
Front Door	47% HH1

Slide 11

HH1 Larger difference than last year, maybe worth talking about
Hayden Hobbick, 2026-05-16T07:24:52.448

% Absent by Subjective Importance

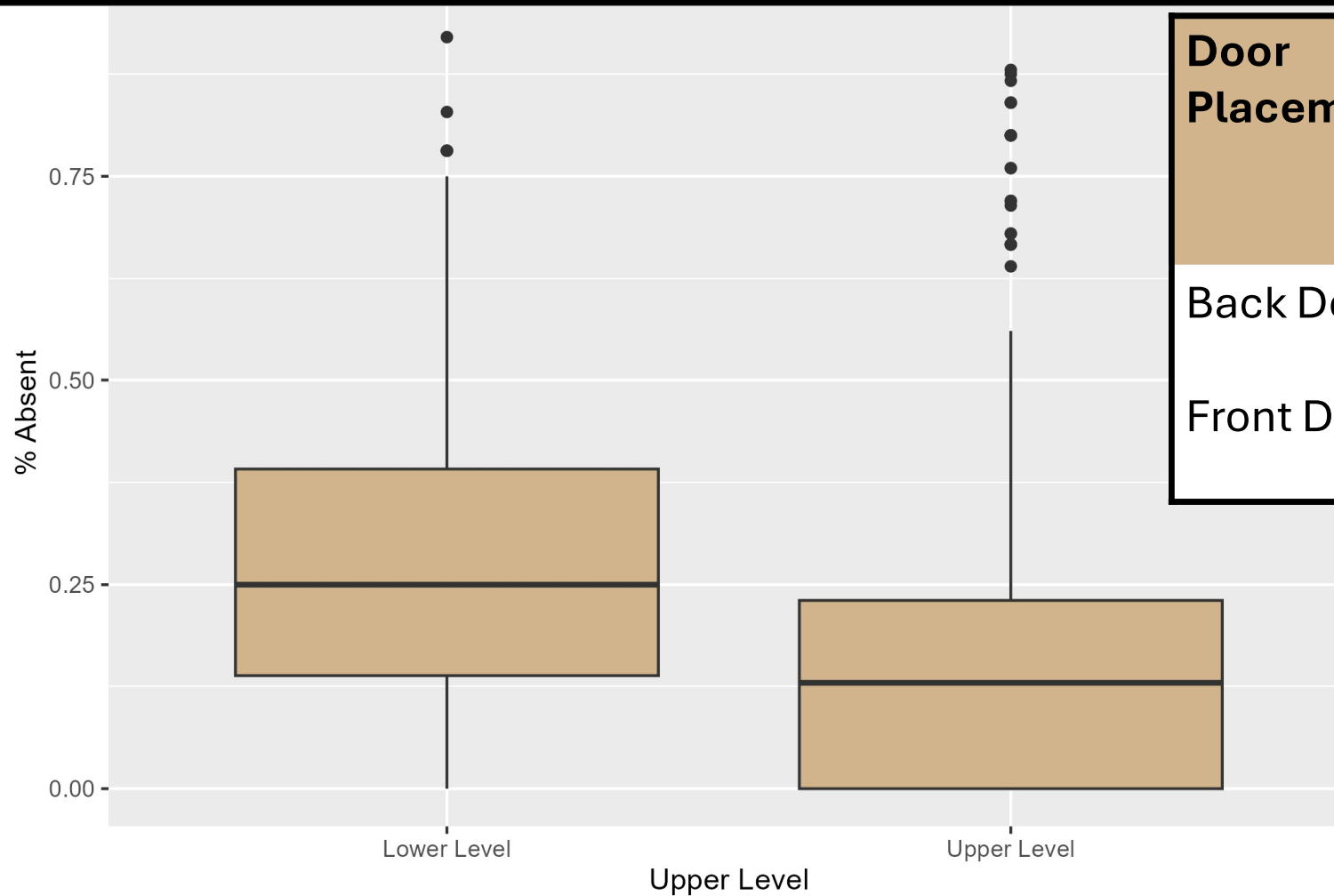


Door Placement	Mean Subjective Importance
Back Door	5.99
Front Door	5.37

Slide 12

HH1 Smaller distribution than last year
Hayden Hobbick, 2026-05-16T08:09:16.698

% Absent by Class Level



Door Placement

% Upper-Level Course

Back Door

55%

Front Door

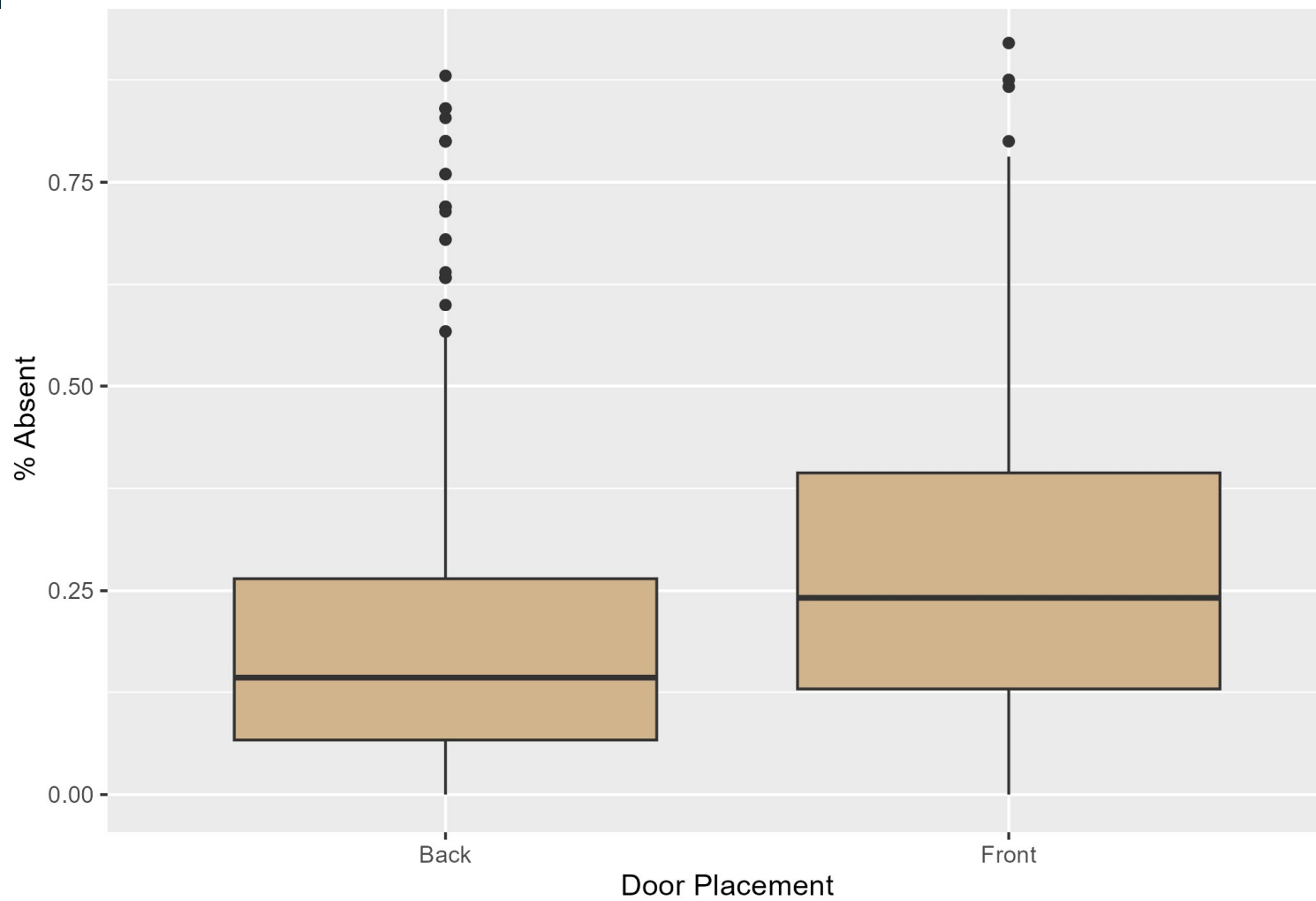
26%

Door placement	% Mandatory attendance
Back Door	63%
Front Door	47%

Door placement	Mean Subjective Importance
Back Door	5.99
Front Door	5.37

Door Placement	% Upper-Level Course
Back Door	55%
Front Door	26%

% Absent By Door Placement



Term	No Control or Interaction	Mandatory Attendance	With Interaction
Back Door (vs. Front)	-0.055**	-0.046*	-0.091**
Mandatory Attendance	NA	-0.025	-0.070
Back Door x Mandatory Attendance	NA	NA	0.086
Total Students	0.009***	.009***	0.008***
Upper-Level Course	-0.020	0.034	0.030
Subjective Importance	-0.046**	-0.043**	-0.038**
Day, Week, Time, & Class Size Controls	Yes	Yes	Yes
Observations	1679	1484	1484
Number of Clusters	77	72	72
R-squared	0.425	0.445^{HH2}	0.451

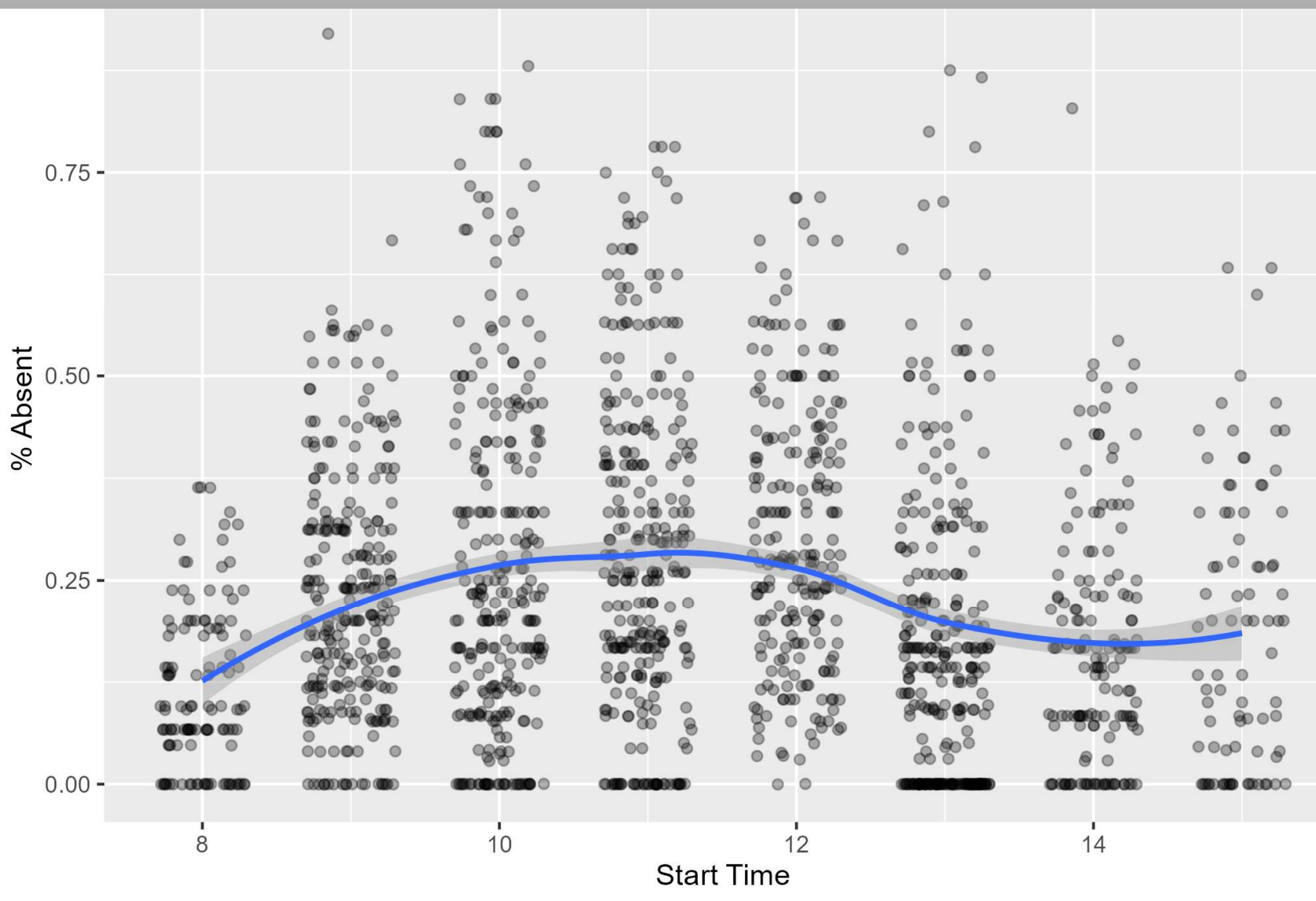
HH1

HH2

Slide 15

- HH1** No % Filled Data available
Hayden Hobbick, 2026-05-16T09:19:44.089
- HH2** I'd like to remove this row
Hayden Hobbick, 2026-05-16T09:20:01.600

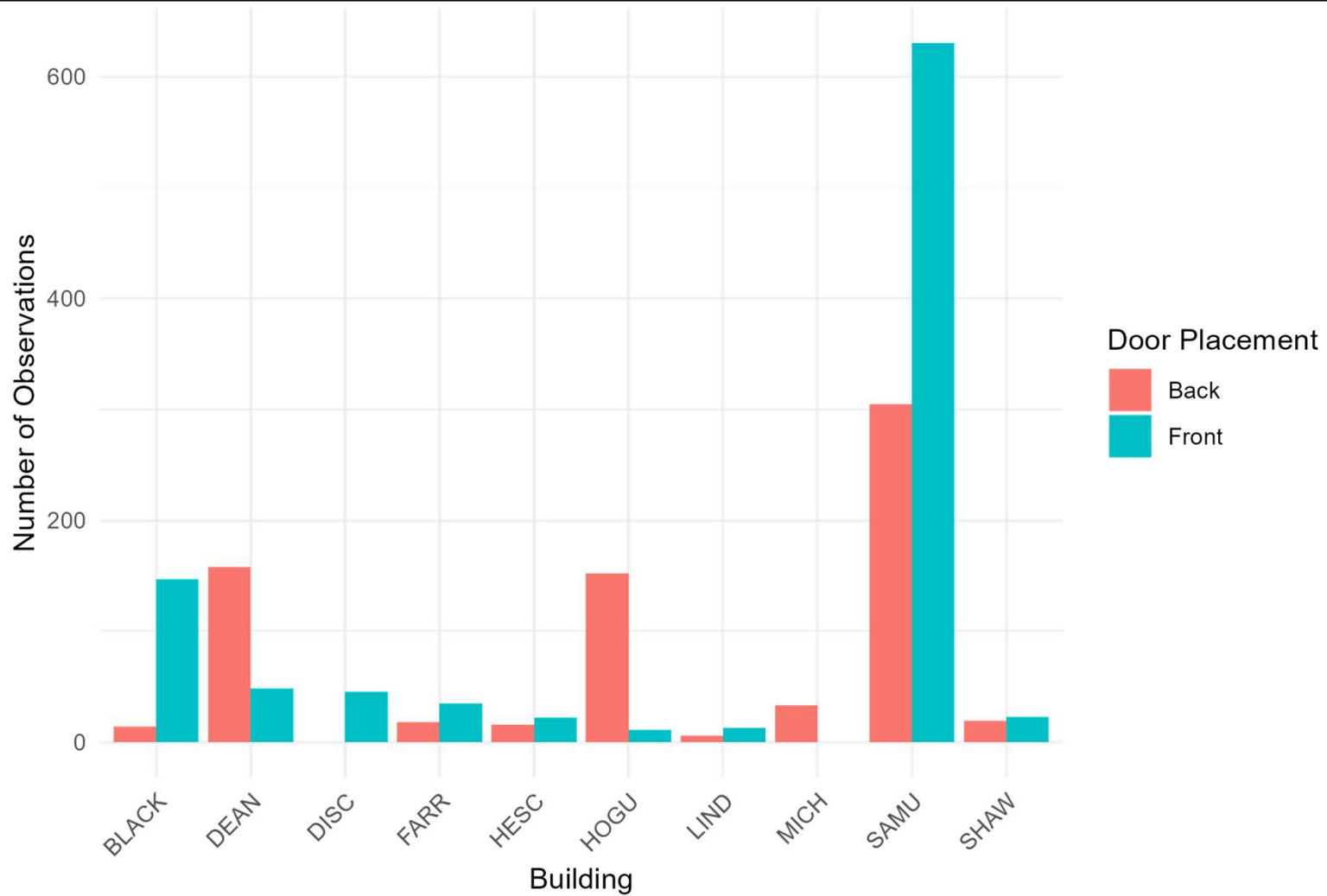
% Absent by the Time-of- Day



Limitations

- Representativeness
- Limited scope
- Omitted Variable Bias
- Biased measurement error
- Experimenter Demand Effect
- Missing variables → Mean Imputation

Number of Observations by Building and Door Placement



1) Continue collecting data throughout Spring Quarter

2) Publish conclusive results

3) Suggest improvements to community space design



Gaze Aversion: Door Placement's Effect on Classroom Attendance



Hayden Hobbick: HobbickH@gmail.com
Faculty Advisor: Dr. David Zuckerman
Central Washington University Economics

Thank you

