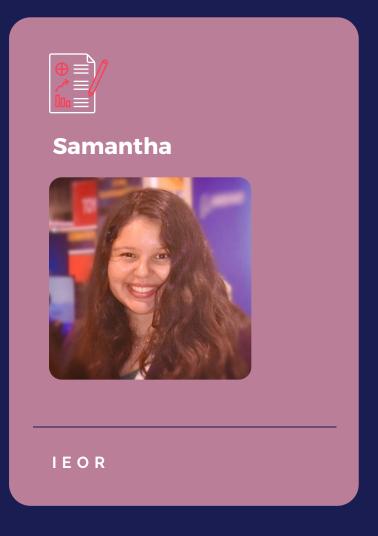
Fall 2021 Instruction Methods

Natalie Andersson, Lucie Chen, Samantha Torres & Jihee Choo

Meet the Team









MOTIVATION

Students are looking forward to in-person class, but after seeing the devastating effects of the pandemic, we were worried if reopening in the fall would be a good idea.

How did we break down what to consider?



Case Predictions



Student Sentiment



Administrative Concerns

How are we making a decision?

Case Predictions 0.5

Student 0.3

Administrative Aspects 0.2

Case Predictions 0.3
Student 0.2
Administrative Aspects 0.5

Case Predictions 0.2
Student 0.5
Administrative Aspects 0.3

Lower Score

Change to In Person

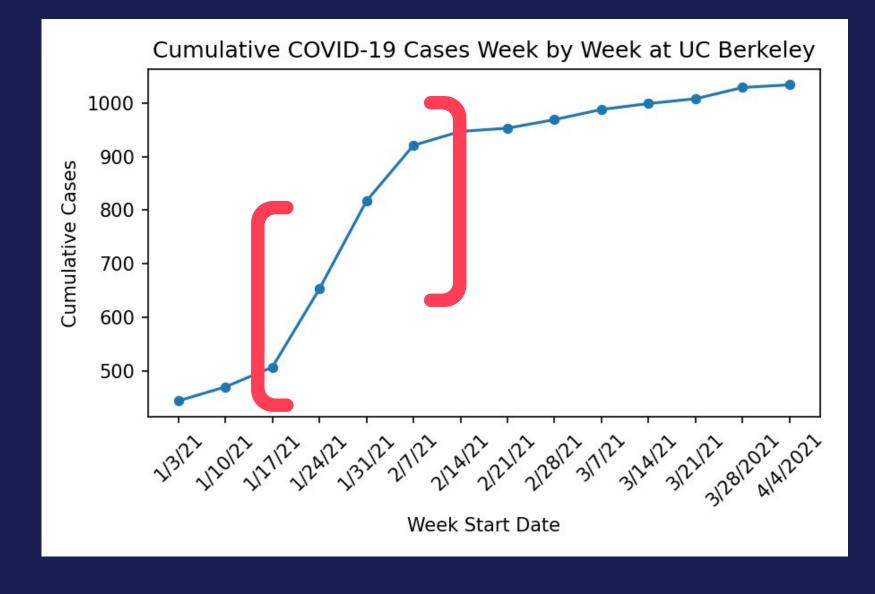
Preliminary Data Analysis

Significant increase in case numbers when students returned to campus for the spring 2021 semester.

Since then, cases have slowed down a lot.

1/24/21

SPRING SEMESTER STARTS



3/7/21

VACCINE AVAILABILITY INCREASES What happened at other colleges that have already reopened?

METHODS

Scale trends at other colleges to predict what would happen if UC Berkeley were to reopen

LACK OF DATA

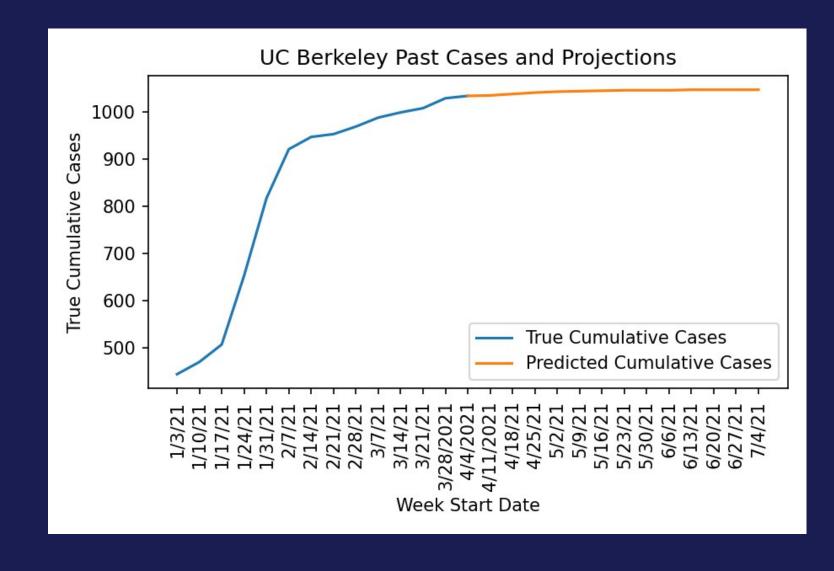
Very few colleges have extensive data on case numbers prior to reopening.

Case numbers at a college tend to reflect case numbers in their local region. Almost no colleges in CA have reopened.

What is the projection on case numbers? SEIR Modeling

References MIT Operations Research Lab's DELPHI Model

LINK





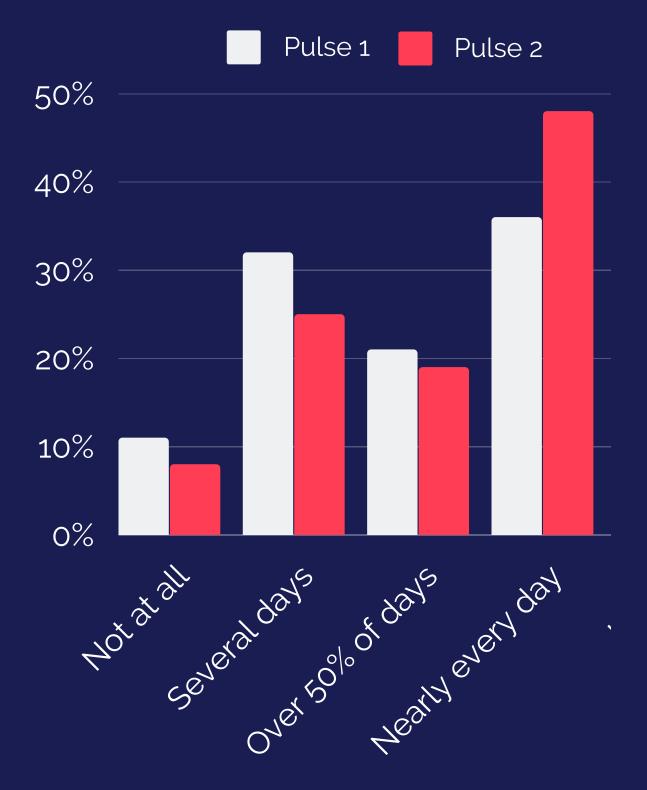
Scoring: Case Predictions

Lower score means in person, higher score: keep things as is. Total points possible is 45.



How do students feel?

Z O O M B U R N O U T A M O N G U N D E R G R A D U A T E S



ANXIETY

Over 40% of undergraduates are experiencing anxiety and over 30% are experiencing depression

During the Fall 2020 semester anxiety and depression levels increased

ZOOM BURNOUT

The majority of undergraduate and graduate students are experiencing at least some form of zoom burnout

Almost 50% of undergrads report feeling burnout every day

BASIC NEEDS

Undergraduates expressed concern over paying bills and rent

Drop in enrollment for both undergrad and grad students in the spring 2021 semester



Scoring: Student Sentiment

Lower score means in person, higher score: keep things as is. Total points possible is 45.



What administrative concerns are there?

RESEARCH

Projects restricted due to limited funding

FINANCES

Unprecedented \$34M deficit

A C A D E M I C D I S H O N E S T Y

Students are concerned over cheating

ATHLETICS

Reduced income from televised athletics



Scoring: Administrative Aspects

Lower score means in person, higher score: keep things as is. Total points possible is 45.



Scoring & Final Decision



Weights

Case Projections: 0.5
Student Sentiment: 0.3
Administrative Aspects: 0.2



Decision Score Bands

Fully remote: 31 - 45

Hybrid: 16 - 30

Mainly in person: 0 - 15



Final Score & Decision

Case Projection = 0.5(5)



Student Sentiment = 0.3(18)



Admin Aspects = 0.2(15)

Total Score: 10.9

THANKS FOR LISTENING!

WORKS CITED

DELPHI Model: https://www.covidanalytics.io/projections

UC Berkeley Covid Data: https://coronavirus.berkeley.edu/dashboard/

UC Berkeley Pulse Survey Data: https://ucbsurveys.berkeley.edu/surveyresults/Pulse/

COVID Impact on UC Berkeley Research: https://cshe.berkeley.edu/file/1612

COVID Impact on UC Berkeley Finances: https://news.berkeley.edu/2020/07/15/update-on-budget-expense-reduction-measures/

Examining College Decisions to Reopen During COVID: https://journals.sagepub.com/doi/full/10.1177/2378023120988203

FEEL FREE TO EMAIL US WITH ANY QUESTIONS!

Natalie: natalieandersson@berkeley.edu

Lucie: lucie.chen@berkeley.edu

Samantha: samanthatorres@berkeley.edu

Jihee: jiheechooo1@berkeley.edu