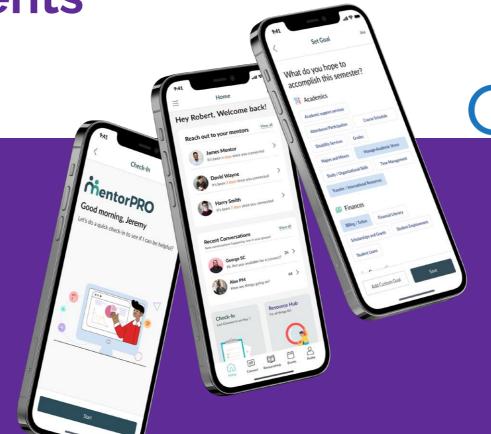
Implementation of a Technology-Enhanced Peer Mentor Referral System for First-Year University Students

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PSYCHOLOGICAL SCIENCE

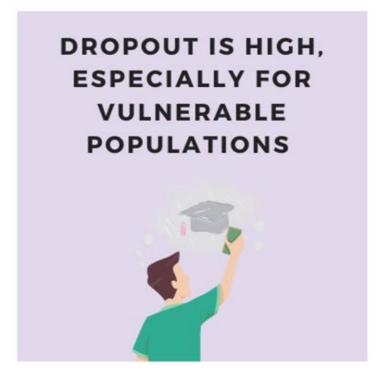
College students are in need

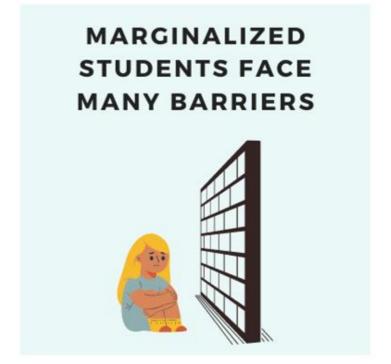
60%

of college students meet criteria for at least one mental health challenge







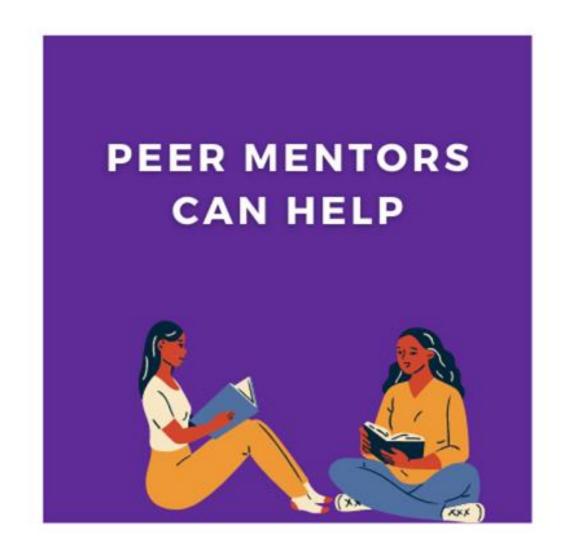


OVERALL, ABOUT 30-40% OF UNDERGRADUATE STUDENTS DROP OUT OF COLLEGE WITHOUT FINISHING THEIR DEGREE

60% HIGHER CHANCE FOR STUDENTS WITH DISABILITIES
 23% HIGHER CHANCE FOR FIRST-GENERATION COLLGE STUDENTS
 35% HIGHER RISK FOR BLACK/AFRICAN AMERICAN STUDENTS



College students are in need





Research supports that mentoring is most effective when it...



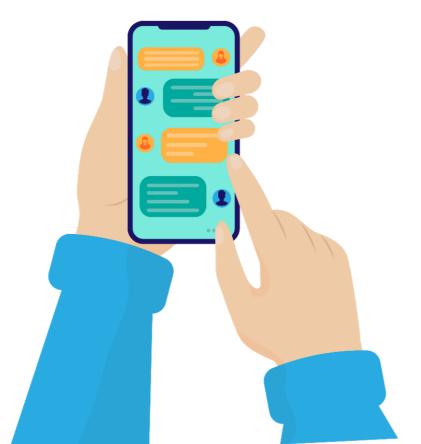








Why Technology?







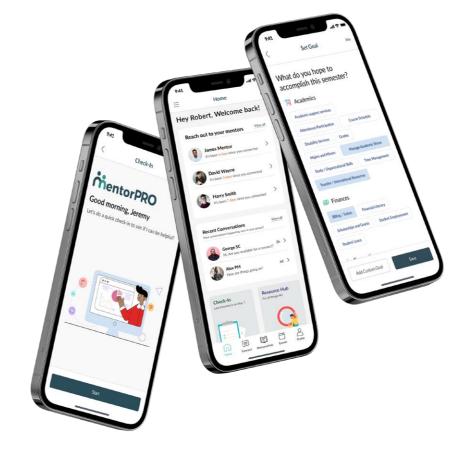






Current Study





Study Aims:

- Examine the acceptability and feasibility of MentorPRO with a college student population.
- 2. Explore what insights college support staff can gain regarding student functioning.
- 3. Identify areas of improvement for the future of MentorPRO and peer mentoring in the technology space.



Methodology

Participants

- -Pilot Program: August 2021-May 2022
- -Private university in northeastern United States
- -6,709 eligible first year students
- -Paid trained peer mentors (2nd year +)

	Full first-year class	Students in peer mentoring program
Number of students (N)	6709	3141
Age $(m [sd])$	18.60 (0.70)	19.36 (0.65)
Gender* (n [%])		
Female	3979 (59.33)	1961 (62.43)
Male	2724 (40.60)	1177 (37.47)
Not reported	6 (0.09)	3 (0.10)
International students (n [%])	605 (9.02)	334 (10.63)
Race and ethnicity ^a (n [%])		
Asian	1318 (19.65)	543 (17.29)
Black or African American	449 (6.69)	203 (6.46)
Hispanic or Latino	849 (12.65)	377 (12.00)
Other	6 (0.09)	6 (1.63)
White	2883 (42.97)	1391 (44.29)
Two or more races	468 (6.98)	240 (7.64)
Race and ethnicity unknown	131 (1.95)	47 (1.50)
Generational status (n [%])		
First generation	751 (11.19)	331 (10.54)
Continuing-generation	3631 (54.12)	1484 (47.25)
Not reported	2327 (34.68)	1326 (42.22)

^{*}The university only reports female and male gender at this time



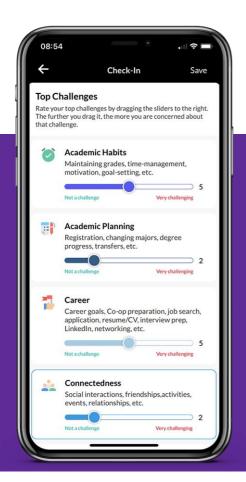
^aThe university only collects race and ethnicity from domestic students

Acceptability & Feasibility: Engagement

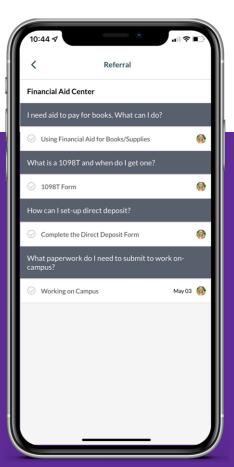
Check-In

Messages

Referrals

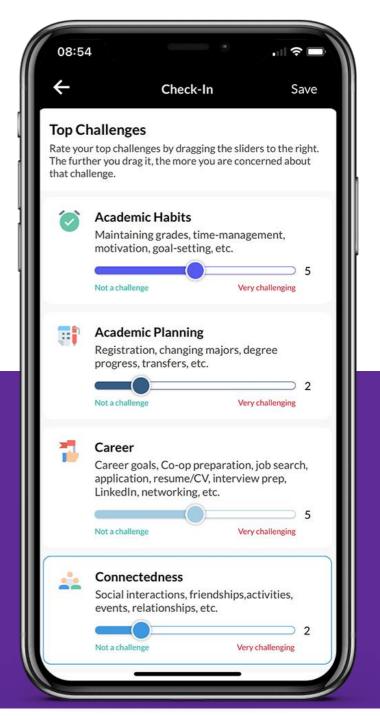






Check-In

- Students identify how severe their top challenges are
- Inspired by Top Problems (Weisz, 2011)
- Six life domains:
 - Academic Habits
 - Academic Planning
 - Career
 - Connectedness
 - Finances
 - Health & Wellbeing
- Measured engagement by number of completed Check-Ins



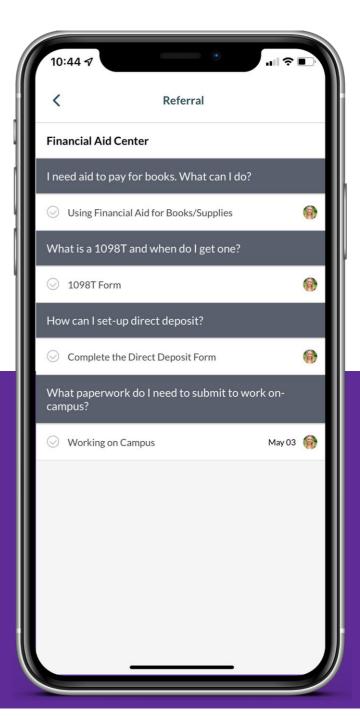
Chat

- Students are able to message the mentors that they have been assigned to
- Messages are also monitored by peer mentors' supervisors for students' safety
- Engagement defined by number of messages sent to peer mentors



Referrals

- Main intervention feature
- Mentors assign mentees with resource referrals related to their challenges and goals
- Supportive Accountability Model



Student Wellbeing: Student Adjustment Surveys

3 Items:

"I feel part of the [university] community" (adapted from Goodenow, 1993)

"I am confident that I will be a successful student at [the university]" (adapted from Bedewy and Gabriel, 2015).

"When I have questions about [the university], I reach out to my peer mentor"
(created by MentorPRO team)

^{*5-}point Likert scale: strongly disagree (1) to strongly agree (5)

^{*}This questionnaire was presented the first time students used MentorPRO, then was presented again every 3 months.

Results

MentorPRO Pilot Program

	Full first-year class	Students in peer mentoring program	Difference statistic
Number of students (N)	6709	3141	
Age $(m [sd])$	18.60 (0.70)	19.36 (0.65)	t(3140) = 65.53, p < 0.001
Gender* (n [%])			$\chi^2(2) = 13.08, p = 0.001$
Female	3979 (59.33)	1961 (62.43)	
Male	2724 (40.60)	1177 (37.47)	
Not reported	6 (0.09)	3 (0.10)	
International students (n [%])	605 (9.02)	334 (10.63)	$\chi^2(1) = 10.10, p = 0.002$
Race and ethnicity ^a (n [%])			$\chi^2(6) = 21.71, p = 0.001$
Asian	1318 (19.65)	543 (17.29)	
Black or African American	449 (6.69)	203 (6.46)	
Hispanic or Latino	849 (12.65)	377 (12.00)	
Other	6 (0.09)	6 (1.63)	
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First generation	751 (11.19)	331 (10.54)	
Continuing-generation	3631 (54.12)	1484 (47.25)	
Not reported	2327 (34.68)	1326 (42.22)	

^{*}The university only reports female and male gender at this time

46.83% of first years opted in

Who did this program appeal to?

- Females
- International students
- White students
- Multiracial students



^aThe university only collects race and ethnicity from domestic students

Main Findings

Engagement

Check-Ins	Chat	Referrals
17,032 check-ins	13,456 messages to peer mentors	756 referrals
2,947 students	1,798 students	458 students



Main Findings

Engagement

Check-Ins	Chat	Referrals
17,032 check-ins	13,456 messages to peer mentors	756 referrals
2,947 students	1,798 students	458 students



Number of Check-Ins significantly correlated with GPA

r(2945)=0.04, p=0.043

Survey Responses

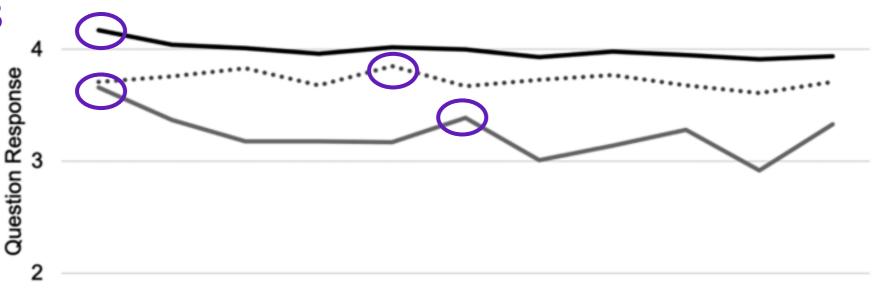
What insights college support staff can gain regarding student functioning?

- Check-in Scores
- Student Adjustment Survey Responses





Survey Responses



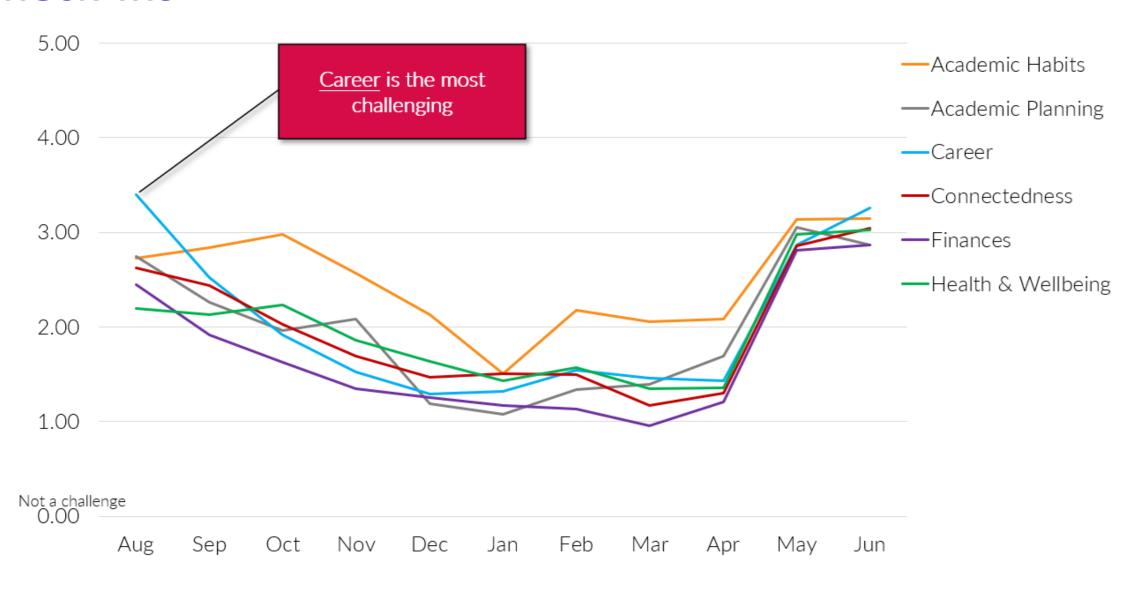


- I am confident that I will be a successful student at [the university]



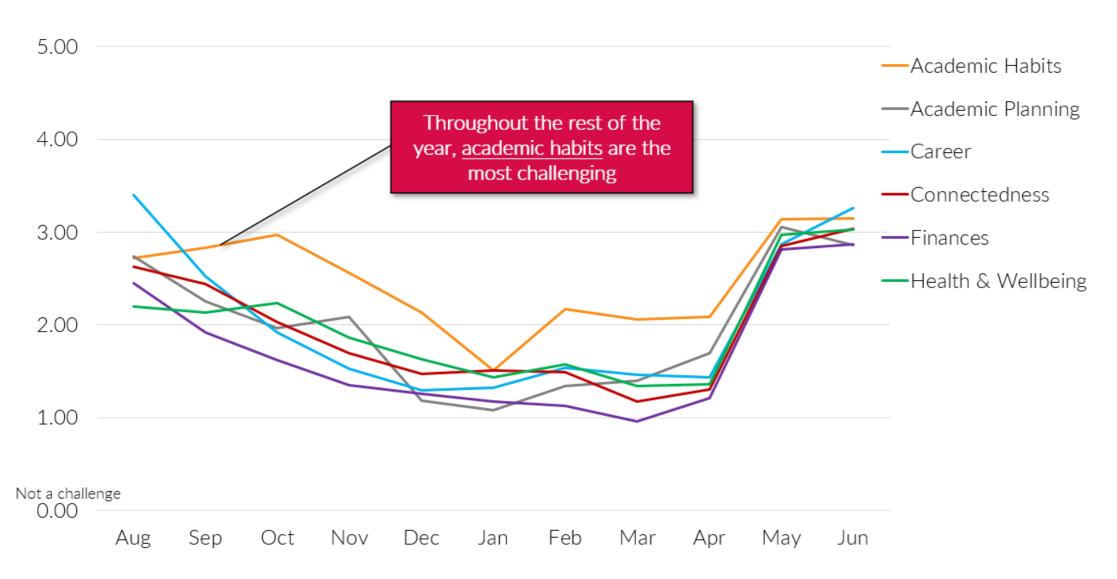
Note. Mean responses by month of the questionnaire items.

Check-Ins





Check-Ins





Limitations

- No true baseline data for all students
- No control or comparison group
- Change in Check-In procedure





Discussion Points

- Pilot year demonstrated acceptability and feasibility.
- Referral engagement lower than we anticipated.
- Check-Ins and Surveys can inform university staff on what challenges students are having, and when they might need the most support.
- Future work



Thank you!!

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Q+A

