

Individual differences in decision-making: impact of COVID-19

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INTRO

- Social isolation and anxiety from uncertainty affects cognitive and academic performance in students.^{1,2,3,5}
- Individuals who already have mental health issues may be particularly at risk.^{4,6}

METHODS

1. $N' = 555$, currently $N = 29$, pre-pandemic participants, invited back.

Tested via **Cognition.Run**

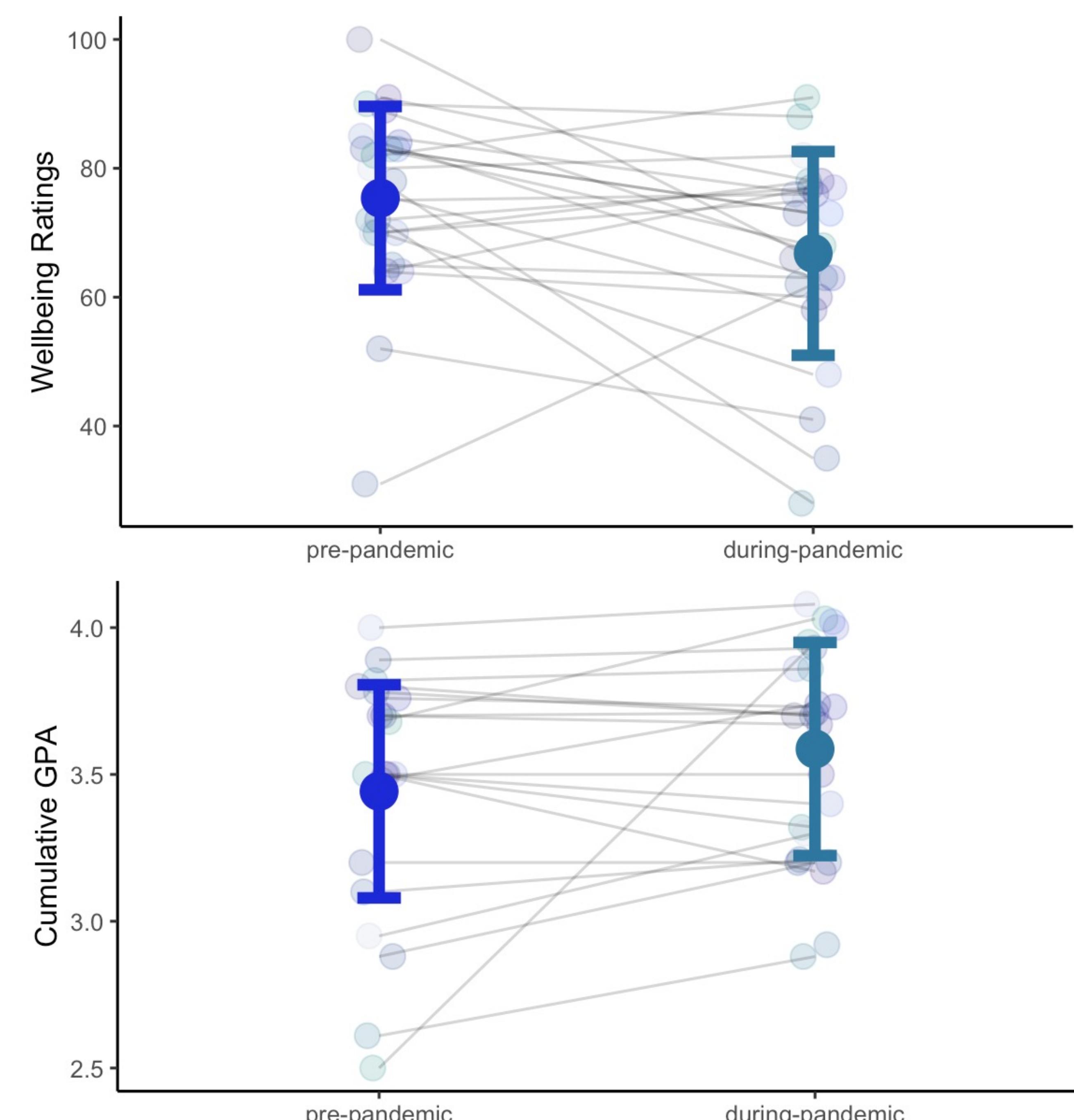
2. Longitudinal measures

(Drug use⁷, social networks⁸, psychiatric conditions, fluid intelligence⁹, GPA)

3. Cross-sectional measures

(Perceived stress¹⁰, anxiety¹¹, depression¹², resilience¹³, social adjustment¹⁴, coronavirus anxiety¹⁵)

PRELIMINARY RESULTS



IMPLICATIONS

- The overall impact on mental health status and academic performance in Concordia students.
- Micro-longitudinal changes in cognitive performance, socio-emotional functioning and educational achievement.

References:

1. Amaral-Prado, Borghi, Mello, & Grassi-Kassis (2020).
2. Hasan, & Bao (2020).
3. Wang, Lu, Ko, Chen, Li, Chang, & Yen (2020).
4. Merzon, Manor, Rotem, Schneider, Vinker, Golan Cohen, & Green (2020).
5. Marelli, Castelnovo, Somma, Castronovo, Mombelli, Bottoni, & Ferini-Strambi (2021).
6. Husky, Kovess-Masfety, & Swendsen (2020).
7. WHO ASSIST Working Group (2002). The Alcohol, Smoking and Substance Involvement Screening Test (ASSIST)
8. Lubben, Blozik, Gillmann, Iliffe, von Renteln Kruse, Beck, & Stuck (2006). Lubben Social Network Scale.
9. Raven (2003). Raven Advanced Progressive Matrices.
10. Pedrozo-Pupo, Pedrozo-Cortés, & Campo-Arias (2020). Perceived stress-scale for COVID-19.
11. Beck, Epstein, Brown, & Steer (1988). Beck Anxiety Inventory.
12. Radloff (1991). Center for Epidemiologic Studies Depression Scale.
13. Campbell-Sills & Stein (2007). Connor-Davidson resilience scale (CD-RISC).
14. Mundt, Marks, Shear, & Greist (2002). The Work and Social Adjustment Scale.
15. Lee (2020). Coronavirus Anxiety Scale.

So far, participants report:

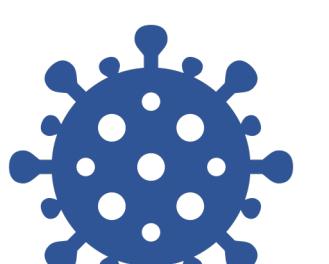
8.6 % decrease in wellbeing



50 % rate their professors as accommodating



45 % likelihood of contracting covid-19



Take a picture to access the study & materials!

