

# Students' Learning Experiences During COVID-19 and Familial SES

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### Context of study



- Prolonged period of COVID-19-related school suspension in HK
- Challenge of sustaining students' learning online
- eCitizen Education 360 project collected data about experiences during school suspension and resumption in mid-2020
  - Aims to improve educational opportunities, digital competence, and wellbeing of students



## Aims of study

### This study investigates

- (a) how the pattern of parental home and school involvement varies according to familial socioeconomic status (SES) and
- (b) how this involvement in turn influences students' online learning experiences and outcomes during the COVID-19 school suspension in Hong Kong.

### Literature review



- Call for unravelling intricacies between SES and parenting effects
- All parents perceive it important that their children keep up with schoolwork during COVID-19-related home learning, but high-SES parents better able to support children's learning
- Family stress vs family investment model
- Parents from higher-SES backgrounds are more involved in children's learning



### Literature review

- Do parents adapt their involvement patterns during contingencies?
  - Contextual model of parenting
  - Longitudinal perspective of parenting effects across generations
  - Burgeoning literature on COVID-19 online learning
    - COVID-19-related parental involvement and specific aspects of children's online learning (e.g., screen time)
    - COVID-19-induced parent and children's psychological adjustment
- Question: Does pattern of parental involvement before and during COVID-19 online learning differ?

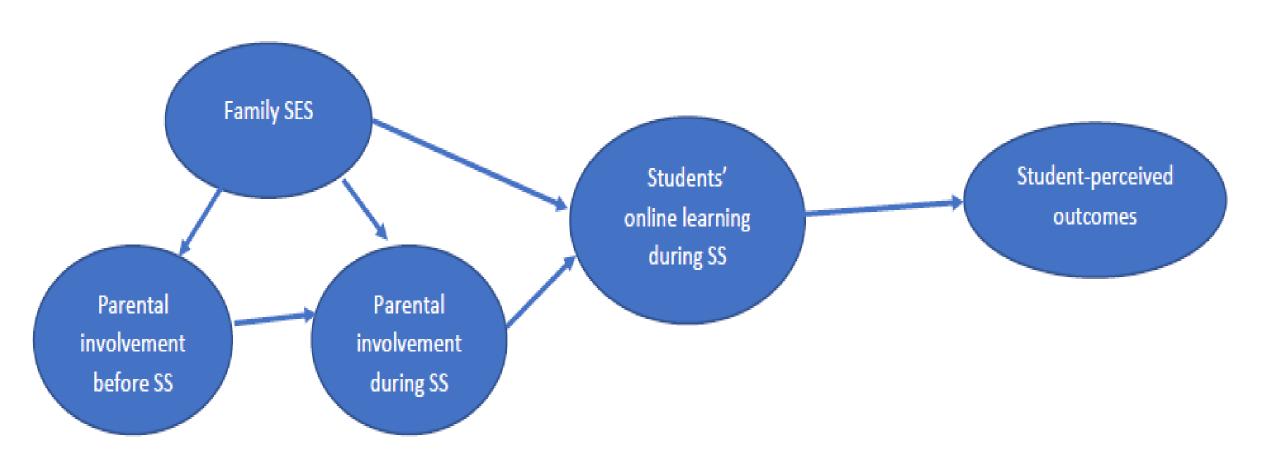
### Literature review



- Inconclusive evidence on effects of parental involvement
  - Positive learning outcomes (e.g., home reading, parental expectations, parent-child communication, parental support)
  - No association between parenting and student achievement
- Parents' mediation in children's online learning
  - Parents are working hard to balance children's online learning opportunities with inherent risks
- Question: Does parental involvement influence students' online learning experiences and outcomes during COVID-19?



## Conceptual framework



*Note*. SS: school suspension of face-to-face lessons



### Method

- Sample
  - survey data collected from 932 secondary school students and their parents during June-July 2020, when schools resumed briefly after their suspension since the end of January 2020







### Variables – Parental involvement



### Before school suspension (examples below):









### During school suspension (examples below):













Students' online learning experiences during school suspension





#### Students' outcomes



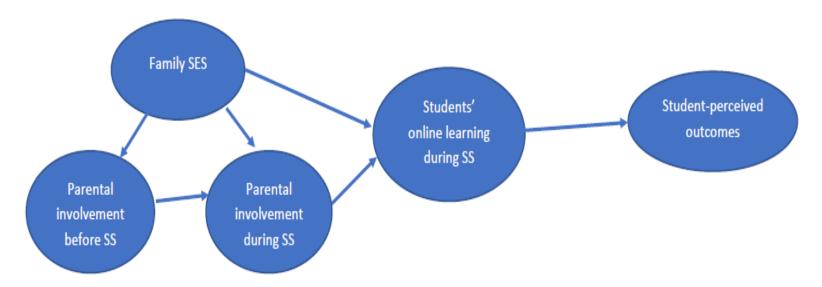






# Analytical strategy

- Confirmatory factor analyses
  - all variables had satisfactory construct validity.
- Structural equation analysis
  - to unravel relationships among familial SES, parental home and school involvement, students' online learning experiences, and learning outcomes



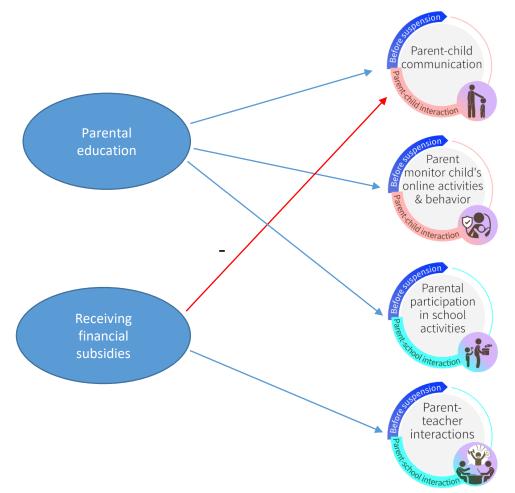


### Limitations

- Cross-sectional survey data precludes definitive claims of causality
  - Future studies can use longitudinal design to examine long-term effects of SES and parental involvement on student learning outcomes
- Measures of students' learning experiences and outcomes were from students' self-reported data
  - Future studies can collect data from teachers and parents

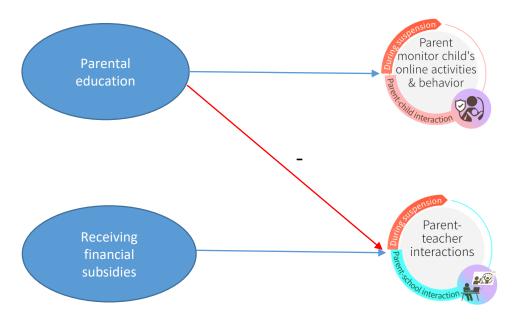








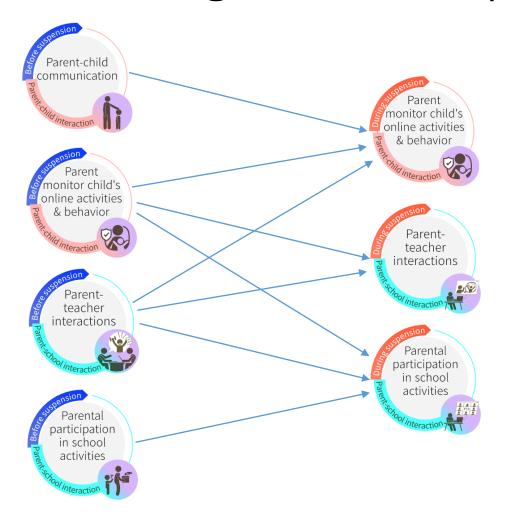




- Results suggest that parents approached teachers when they needed more support in their children's learning.
- The fewer significant associations between SES indicators and parental involvement during school suspension suggest that parents, regardless of SES, recognized the need to be more involved in their children's online learning during school suspension.



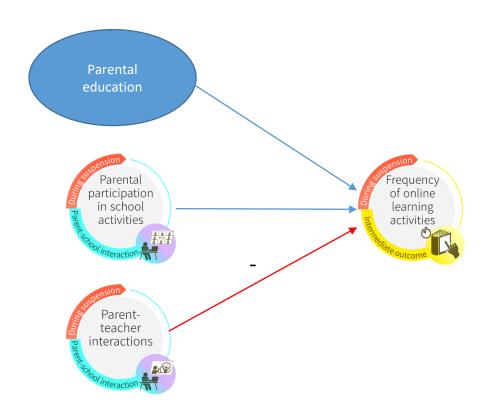
# Results: Parental involvement before and during school suspension

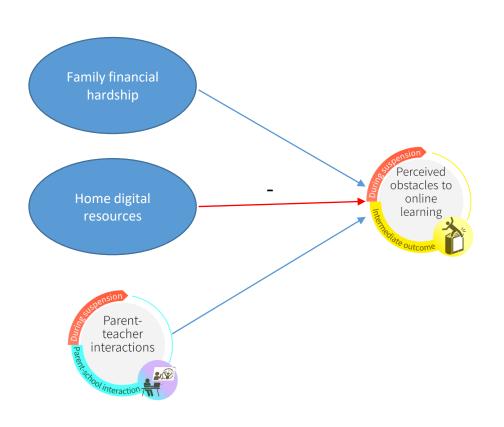


Parents who were more involved at home and in school before school suspension continued to be involved in many aspects during school suspension

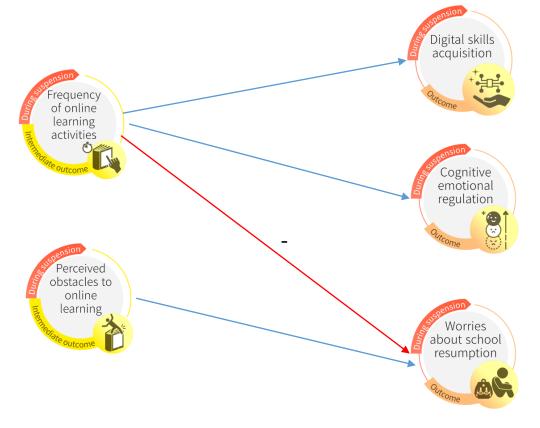
# Results: Influence of SES and parental involvement on students' online learning







# Results: Students' online learning experiences and outcomes







### Theoretical contributions

 Results underscore complexities in digital divide and parental preparedness during school suspension during COVID-19.



### Theoretical contribution 1

### Key finding:

 Compared to familial SES, parental involvement before school suspension had a greater role to play in influencing their subsequent involvement during the school suspension.

### • Implication:

- Parents adopt a long-term perspective in their involvement.
- Insufficient for parents to only start to be more involved in their children's learning when school lessons are conducted online due to emerging contingencies such as the pandemic.



### Theoretical contribution 2

- Key finding:
  - Benefits of students' participation in online learning extend beyond school suspension - less worries after school resumption.
- Implication:
  - Parental involvement predicts students' online learning. Therefore, it has a **protective function** in buffering students from the uncertainties arising from school suspension.



### Practical implications

- Schools need to encourage higher levels of parental involvement and to facilitate students' uptake of online learning when needed (e.g., during school suspension).
- When students participate more effectively online, they are more likely to acquire critical digital skills helpful for **STEM participation**.
- They will also be more self-regulated and ready for face-to-face learning when school resumes, thereby minimizing disruptions to their learning trajectory.

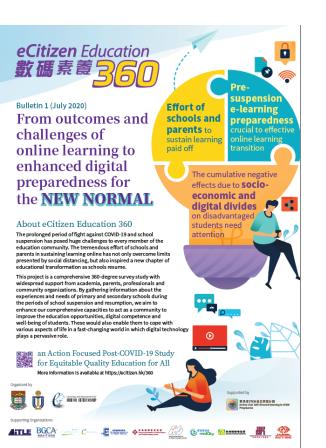


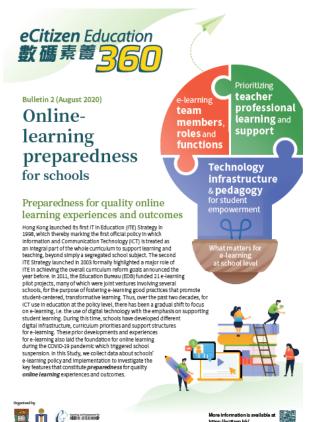
### Future research

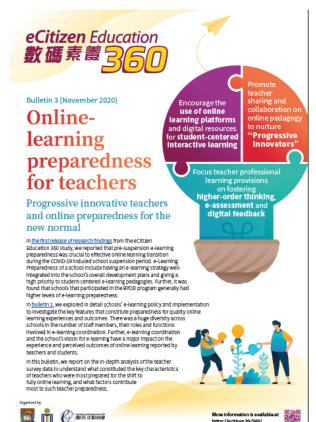
- How do parents adapt their involvement in New Normal?
- How does SES moderate patterns of parental involvement in New Normal?
- How does parental involvement in New Normal contribute to students' holistic development beyond academic learning?

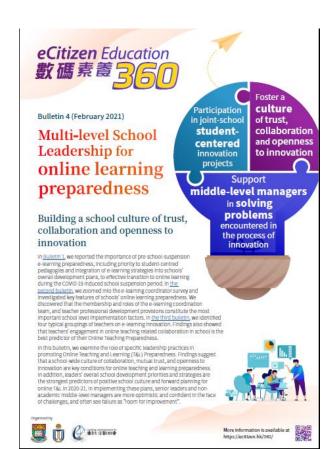
# Visit our project homepage (https://ecitizen.hk/360)











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