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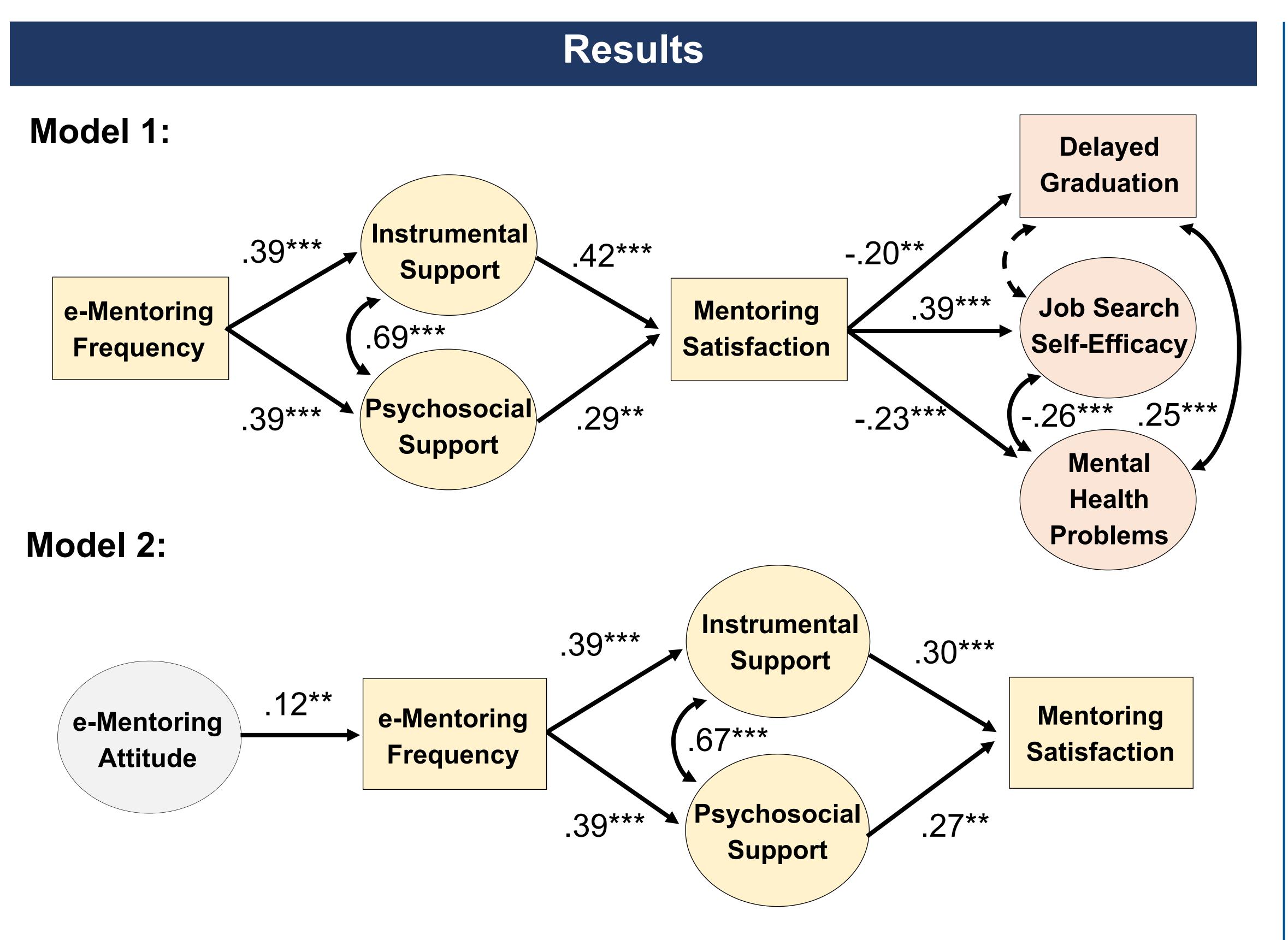
Patterns and Outcomes of Electronic Mentoring Among Engineering Graduate Students During the COVID-19 Pandemic

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Methods

- ☐ Online Surveys: June 3-22,2020 (retrospect of experience in Spring 2020)
- ☐ Participants: 566 engineering graduate students
 - 44 institutions in 16 states
 - Female (40.3%)
 - Black/Hispanic/Native
 American (13.8%)
 - Household experienced a loss of income (33.2%)
 - Disability (6 types; 12.0%)
 - International (36.4%)
 - PhD (38.7%), Master's (61.3%)
- e-Mentoring Measures: Videoconferencing, email, phone, social media
- ☐ Analytic Strategy: Structural Equation Modeling (SEM)



Note: Both SEM models show good model fit. Demographics were controlled in two models. Values are standardized path coefficients. Dashed paths are not statistically significant. *p<.05, **p<.01, ***p<.001.

Findings

- □ Pandemic: Negatively affected academic, career, and mental health outcomes of engineering grad students, especially among underrepresented minorities
- □ e-Mentoring Frequency:
- More hours on video conferencing and emailing
- Positively predict mentoring support, satisfaction, and student outcomes
- e-Mentoring Attitude:Positively predict e-Mentoring frequency
- ☐ Concern: Low SES students reported lower levels of e-mentoring attitude and satisfaction

