

Relationship Between Teacher Participation in CCRS Professional Development and Educational Functioning Level Gains: 2015-16 through 2018-19

December 14, 2020

Project Team

- Amanda Harrison
- Christine Houck
- Cathy Kassab

▶ Research Question

- Are students of teachers who participated in formal College and Career Readiness professional development (CCRS PD) more likely to make educational functioning level (EFL) gains than other students?
- Does the relationship between CCRS PD and EFL gains vary by type of program?

Study Design

- Descriptive exploratory study
- Longitudinal
 - Four years of student data (2015-2019)
 - 33,415 students with pretest and posttest
 - Four years of teacher PD data (2014-2018)
 - 389 participated in CCRS PD

Data Collection

- Teacher participation databases
- eData
 - Student assessment data
 - Pretest and posttest
 - EFL gain, yes/no
 - Amount EFL gain (0-6)
 - Teacher/student class assignment

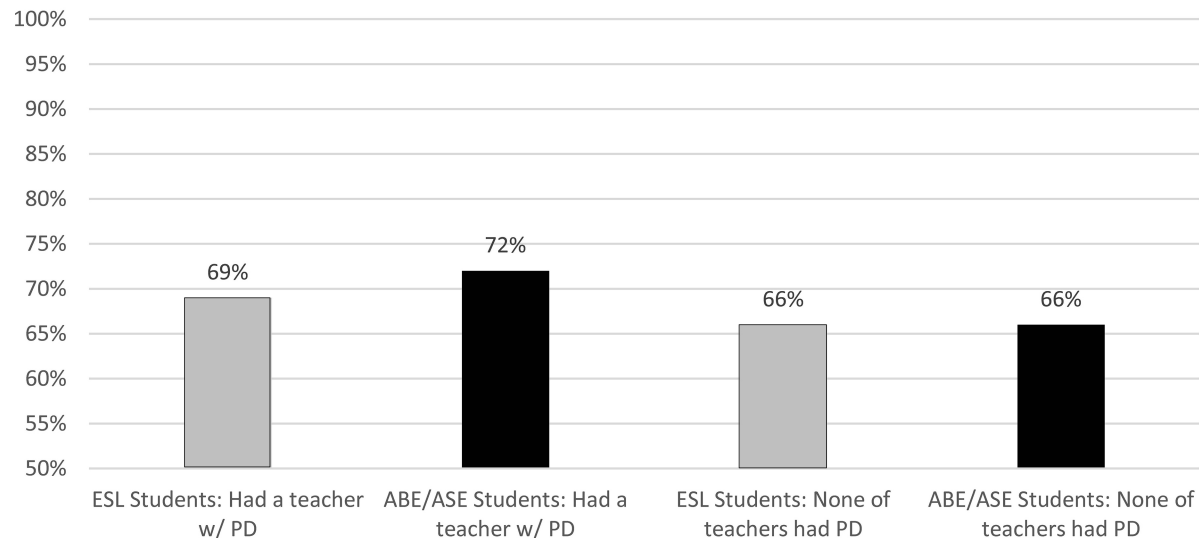
Results

- Baseline equivalence
 - Students who had one or more teachers with PD differed significantly at baseline from those who did not have a teacher with PD
 - Pretest EFL
 - Number of teachers
 - Number of years in database

Results – looking at first year of pre/post

- Students who had one or more teachers with CCRS PD were more likely to have an EFL gain than students who did not have a class with a teacher with CCRS PD

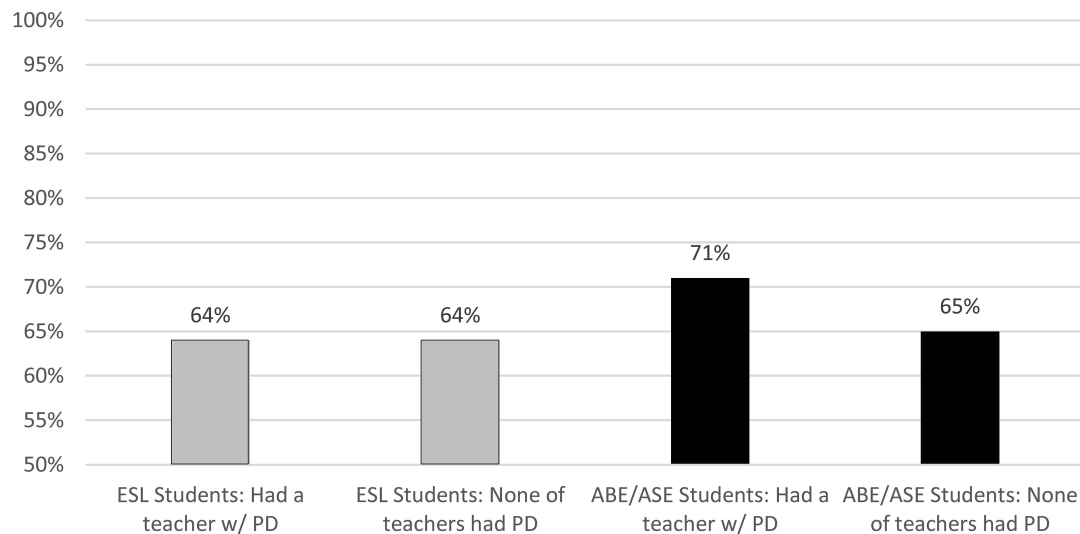
Figure 1: Unadjusted Percentage of ESL and ABE/ASE Students with an EFL Gain the 1st Year Student had Pre- & Post-test Data



Results – looking at last year of pre/post

- ABE/ASE students with a PD teacher were more likely to have an EFL gain than ABE/ASE students who did not have a PD teacher
- ESL students with a PD teacher were no more likely to have an EFL gain than those who did not have a PD teacher

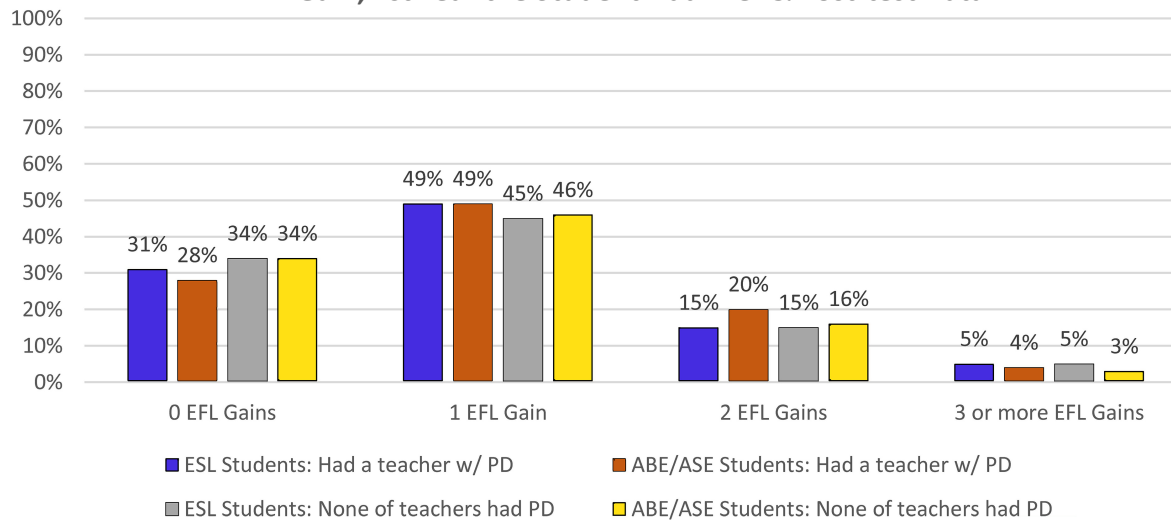
Figure 2: Unadjusted Percentage of ESL & ABE/ASE Students with an EFL Gain the Last Year the Student Had Pre- & Post-test Data



Results – amount of EFL gain

- For ABE/ASE students, having one or more teachers who participated in the PD was related to the amount of the EFL gain
- For ESL students, having one or more teacher with PD was unrelated to the amount of the EFL gain.

Figure 3: Unadjusted Percentage of ESL & ABE/ASE Students by Amount of EFL Gain, 1st Year the Student Had Pre- & Post-test Data



▶ Results – percentage of PD teachers

- ABE/ASE students who had a higher percentage of teachers with the PD had greater EFL gains
- For ESL students, the percentage of teachers with the PD was not related to the amount of the EFL gain

▶ Results – amount of participation in PD

- If include all ABE/ASE, amount of PD seems to have a relationship with EFL gain
- If exclude students with teachers who did not have PD, positive association disappears
- Needs more analysis

Results summary

- **ABE/ASE students with PD teachers were more likely to have an EFL gain/greater gains** than students who did not take a class with a teacher who had the PD
- **ESL students who had one or more teachers with the PD were more likely to have an EFL gain** than those who were not in a class with a teacher who participated in the PD
- ABE/ASE who had a greater proportion of teachers with the PD were more likely to have EFL gains
- **ABE/ASE students were more likely to experience an EFL gain or to experience a greater amount of EFL gain than ESL students** if they had a teacher with the PD
- **Amount of the PD was not positively associated** with EFL gains or the amount of the EFL gain for students who had one or more teachers with the PD

Limitations

- Other factors to consider
 - Full-time vs. part-time teachers
 - Years' experience
 - Student barriers – we controlled for student entry level variability, but not barriers.
 - Distinguish between type of PD (f2f, institute, webinar-based, JEPD, PLCs)

Next Steps

- Use same data set to dig in a little more, look at some additional factors
 - Investigate negative relationship
- Look at other outcomes (employment, HSE)
- Include ELPs PD and look at ESL teachers specifically
- Another state do our same study?