

東京労働経済学研究会・定例研究会

Subject Specialization and Student Achievement: Evidence from a Cluster-Randomized Experiment in Elementary Schools

(報告内容が変更となりました)

●日時

2026. **4.10** (金)
15:30~17:00

●場所

明治大学駿河台キャンパス
リバティタワー13階1134教室

●報告者

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(慶応義塾大学 総合政策学部教授)

●どなたでもご参加いただけます！

●要旨

We estimate the causal effect of subject specialization in elementary schools using a cluster-randomized experiment in Japan. Assigning part-time science specialists increases science achievement by 0.18 standard deviations and mathematics by 0.13 standard deviations, while mathematics specialization yields no gains. The asymmetry reflects comparative advantage. Student achievement is strongly linked to homeroom teachers' subject expertise, and reallocating instruction away from high-expertise teachers attenuates returns. Effects are largest in science, where teachers report low subject confidence and experienced retired specialists were deployed. We find no evidence of increased coordination costs or deterioration in teacher-student relationships. The intervention is substantially more cost-effective than class size reduction. Targeted specialization improves learning when aligned with teacher comparative advantage and subject-specific skill constraints.

共催：明治大学政治経済学部経済学科、明治大学EBPM研究センター

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