## **OOS-predictive performance Pupil Sex** Random effect Intercept Sex Controls + 68.9% intercepts random effects model school-level Controls + 68.9% Density intercepts & ability Controls + 68.8% intercepts & ses જ Controls + **Pupil-**68.8% intercepts & sex Full random effects-68.7% 2 Random effect Pupil- & School-level standard model Incl. All School Vars-66.0% **Pupil Parental Education** Random effect Intercept Ses Incl. School-level 66.0% Parental education Incl. Urbanity 65.3% Incl. Denomination -65.3% Density Pupil-level tandard mode All pupil variables 65.3% Ability only 64.7% 0.70 0.64 0.66 0.68 Out-of-sample predictive accuracy -2 -1 2 Random effect