Figures and Tables

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| Table 1. Analytic sample summary statistics | | |
|  |  |  |
| Panel A. Chinese sample | | |
|  | Female students, N = 2,464 | Male students, N = 2,481 |
| Match | 80.03% | 19.59% |
| Female teacher | 80.03% | 80.41% |
| Score | 0.305 (0.814) | -0.273 (1.045) |
| Self-concept | 0.150 (0.921) | -0.140 (1.036) |
|  |  |  |
| Panel B. English sample | | |
|  | Female students, N = 2,473 | Male students, N = 2,489 |
| Match | 89.77% | 10.85% |
| Female teacher | 89.77% | 89.15% |
| Score | 0.276 (0.858) | -0.252 (1.044) |
| Self-concept | 0.217 (0.935) | -0.208 (1.003) |
|  |  |  |
| Panel C. Math sample | | |
|  | Female students, N = 2,498 | Male students, N = 2,518 |
| Match | 58.61% | 40.87% |
| Female teacher | 58.61% | 59.13% |
| Score | 0.100 (0.927) | -0.074 (1.042) |
| Self-concept | -0.106 (0.932) | 0.115 (1.036) |

|  |  |  |  |
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| Table 2. Observed balance between female and male teachers | | | |
|  |  |  |  |
| Panel A. Chinese sample | | |  |
| Teacher Characteristics | Female, *N* = 89 | Male, *N* = 24 | *p*-value |
| Age | 37 (7) | 41 (8) | 0.018 |
| Teaching experience (years) | 15 (8) | 19 (9) | 0.015 |
| Education attainment (years) | 16 (1) | 16 (1) | 0.011 |
| Teacher-advisor | 28% | 25% | 0.8 |
| Professional rank |  |  | 0.2 |
| Novice teacher | 3.40% | 4.20% |  |
| Intermediate teacher | 38% | 17% |  |
| Advanced teacher | 37% | 54% |  |
| Senior teacher | 21% | 25% |  |
|  |  |  |  |
| Panel B. English sample | | |  |
| Teacher Characteristics | Female, *N* = 96 | Male, *N* = 12 | *p*-value |
| Age | 38 (7) | 40 (8) | 0.5 |
| Teaching experience (years) | 16 (9) | 18 (9) | 0.4 |
| Education attainment (years) | 16 (1) | 16 (1) | 0.7 |
| Teacher-advisor | 29% | 42% | 0.5 |
| Professional rank |  |  | 0.8 |
| Novice teacher | 5.20% | 0% |  |
| Intermediate teacher | 32% | 25% |  |
| Advanced teacher | 43% | 42% |  |
| Senior teacher | 20% | 33% |  |
|  |  |  |  |
| Panel C. Math sample | | |  |
| Teacher Characteristics | Female, *N* = 65 | Male, *N* = 51 | *p*-value |
| Age | 38 (8) | 42 (7) | 0.02 |
| Teaching experience (years) | 15 (8) | 20 (9) | 0.006 |
| Education attainment (years) | 16 (1) | 16 (1) | 0.002 |
| Teacher-advisor | 31% | 31% | >0.9 |
| Professional rank |  |  | 0.6 |
| Novice teacher | 4.60% | 2.00% |  |
| Intermediate teacher | 22% | 14% |  |
| Advanced teacher | 48% | 53% |  |
| Senior teacher | 26% | 31% |  |

Table 3. Observed balance between students being taught by female versus male teachers

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  | Taught by Female Teacher | | |
|  | Chinese Sample | English Sample | Math Sample |
| Baseline Chinese | 0.016 | -0.018 | -0.026 |
|  | -0.01 | -0.009 | -0.013 |
| Baseline English | -0.002 | 0.004 | 0.003 |
|  | -0.015 | -0.01 | -0.017 |
| Baseline math | -0.0003 | 0.013 | 0.033\* |
|  | -0.014 | -0.011 | -0.015 |
| Baseline cognitive | -0.008 | -0.011 | -0.047\* |
|  | -0.012 | -0.009 | -0.019 |
| Female student | -0.016 | 0.005 | 0.002 |
|  | -0.01 | -0.006 | -0.01 |
| Age | 0.011 | 0.011 | -0.001 |
|  | -0.013 | -0.01 | -0.014 |
| Only child | -0.013 | 0.001 | -0.001 |
|  | -0.009 | -0.007 | -0.012 |
| Rural residency | -0.007 | -0.002 | 0.014 |
|  | -0.008 | -0.007 | -0.016 |
| Migrant worker family | -0.017 | 0.011 | 0.006 |
|  | -0.01 | -0.008 | -0.018 |
| Mother education (years) | -0.002 | -0.001 | 0.0002 |
|  | -0.001 | -0.001 | -0.002 |
| Father education (years) | -0.001 | 0.001 | 0.001 |
|  | -0.001 | -0.001 | -0.002 |
| Family income | 0.014 | 0.019\* | 0.031\*\* |
|  | -0.011 | -0.007 | -0.011 |
| School Fixed Effects | Yes | Yes | Yes |
| School clustered SE | Yes | Yes | Yes |
| *F*-Statistics | 1.281 (*df* = 12; 62) | 0.806 (*df* = 12; 62) | 2.51\*\* (*df* = 12; 62) |
| Observations | 4,945 | 4,962 | 5,016 |
| *R2* | 0.589 | 0.622 | 0.455 |

Table 4. Gender achievement gaps

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Panel A. Baseline gender achievement gaps | | | | | | | | | |
|  | Chinese | Chinese | Chinese | English | English | English | Math | Math | Math |
| Female student | 0.580\*\*\* | 0.590\*\*\* | 0.313\*\*\* | 0.513\*\*\* | 0.525\*\*\* | 0.241\*\*\* | 0.125\*\*\* | 0.139\*\*\* | -0.246\*\*\* |
| -0.031 | -0.03 | -0.025 | -0.031 | -0.028 | -0.024 | -0.033 | -0.029 | -0.028 |
| Student characteristics | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Cognitive score | No | Yes | Yes | No | Yes | Yes | No | Yes | Yes |
| Other subject scores | No | No | Yes | No | No | Yes | No | No | Yes |
| School FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| School clustered SE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 4,945 | 4,945 | 4,945 | 4,962 | 4,962 | 4,962 | 5,016 | 5,016 | 5,016 |
| *R2* | 0.107 | 0.207 | 0.516 | 0.099 | 0.21 | 0.587 | 0.025 | 0.185 | 0.503 |
|  |  |  |  |  |  |  |  |  |  |
| Panel B. Wave 2 gender achievement gaps | | | | | | | | | |
|  | Chinese | Chinese | Chinese | English | English | English | Math | Math | Math |
| Female student | 0.573\*\*\* | 0.172\*\*\* | 0.175\*\*\* | 0.522\*\*\* | 0.100\*\*\* | 0.108\*\*\* | 0.162\*\*\* | 0.069\*\* | -0.078\*\*\* |
| -0.032 | -0.022 | -0.022 | -0.032 | -0.022 | -0.024 | -0.036 | -0.023 | -0.02 |
| Student characteristics | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Baseline same subject score | No | Yes | Yes | No | Yes | Yes | No | Yes | Yes |
| Baseline other subject scores | No | No | Yes | No | No | Yes | No | No | Yes |
| School FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| School clustered SE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 4,945 | 4,945 | 4,945 | 4,962 | 4,962 | 4,962 | 5,016 | 5,016 | 5,016 |
| *R2* | 0.106 | 0.527 | 0.605 | 0.096 | 0.681 | 0.705 | 0.027 | 0.557 | 0.612 |
|  |  |  |  |  |  |  |  |  |  |
| Panel C. Wave 2 gender gaps in subject self-concept | | | | | | | | | |
|  | Chinese | Chinese | Chinese | English | English | English | Math | Math | Math |
| Female student | 0.296\*\*\* | 0.183\*\*\* | 0.165\*\*\* | 0.422\*\*\* | 0.201\*\*\* | 0.173\*\*\* | -0.229\*\*\* | -0.286\*\*\* | -0.287\*\*\* |
| -0.027 | -0.027 | -0.028 | -0.037 | -0.039 | -0.04 | -0.037 | -0.032 | -0.03 |
| Student characteristics | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Baseline same subject score | No | Yes | Yes | No | Yes | Yes | No | Yes | Yes |
| Baseline other subject scores | No | No | Yes | No | No | Yes | No | No | Yes |
| School FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| School clustered SE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 4,945 | 4,945 | 4,945 | 4,962 | 4,962 | 4,962 | 5,016 | 5,016 | 5,016 |
| *R2* | 0.037 | 0.07 | 0.076 | 0.078 | 0.239 | 0.247 | 0.031 | 0.228 | 0.232 |

Table 5. Teacher-student gender matching effects for female students

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | |
|  | Wave 2 Score (Female Students Only) | | | | | | | | |
|  |  | | | | | | | | |
|  |  | | | | | | | | |
|  | Chinese | Chinese | Chinese | English | English | English | Math | Math | Math |
|  | | | | | | | | | |
| Match | 0.095 | 0.047 | 0.068 | 0.048 | -0.0001 | 0.015 | 0.165\*\* | 0.181\*\* | 0.178\*\* |
|  | (0.080) | (0.074) | (0.097) | (0.056) | (0.055) | (0.045) | (0.060) | (0.067) | (0.065) |
|  | | | | | | | | | |
| Student Covariates | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Homeroom Covariates |  | Yes | Yes |  | Yes | Yes |  | Yes | Yes |
| Teacher Covariates |  |  | Yes |  |  | Yes |  |  | Yes |
| School FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| School clustered SE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 2,464 | 2,464 | 2,464 | 2,473 | 2,473 | 2,473 | 2,498 | 2,498 | 2,498 |
| *R2* | 0.535 | 0.541 | 0.542 | 0.688 | 0.689 | 0.692 | 0.606 | 0.611 | 0.613 |
|  | | | | | | | | | |
|  |  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | |
|  | Wave 2 Self-Concept (Female Students Only) | | | | | | | | |
|  |  | | | | | | | | |
|  |  | | | | | | | | |
|  | Chinese | Chinese | Chinese | English | English | English | Math | Math | Math |
|  | | | | | | | | | |
| Match | 0.138 | 0.099 | 0.044 | 0.085 | -0.033 | -0.018 | 0.155\* | 0.123 | 0.107 |
|  | (0.115) | (0.123) | (0.099) | (0.133) | (0.111) | (0.092) | (0.072) | (0.085) | (0.074) |
|  | | | | | | | | | |
| Student Covariates | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Homeroom Covariates |  | Yes | Yes |  | Yes | Yes |  | Yes | Yes |
| Teacher Covariates |  |  | Yes |  |  | Yes |  |  | Yes |
| School FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| School clustered SE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 2,464 | 2,464 | 2,464 | 2,473 | 2,473 | 2,473 | 2,498 | 2,498 | 2,498 |
| *R2* | 0.079 | 0.087 | 0.097 | 0.247 | 0.255 | 0.261 | 0.267 | 0.272 | 0.278 |
|  | | | | | | | | | |

Table 6. Teacher-student gender matching effects for male students

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | |
|  | Wave 2 Score (Male Students Only) | | | | | | | | |
|  |  | | | | | | | | |
|  |  | | | | | | | | |
|  | Chinese | Chinese | Chinese | English | English | English | Math | Math | Math |
|  | | | | | | | | | |
| Match | -0.098 | -0.086 | -0.099 | 0.076 | 0.094 | 0.058 | -0.011 | 0.003 | -0.003 |
|  | (0.083) | (0.083) | (0.094) | (0.064) | (0.059) | (0.047) | (0.045) | (0.048) | (0.051) |
|  | | | | | | | | | |
| Student Covariates | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Homeroom Covariates |  | Yes | Yes |  | Yes | Yes |  | Yes | Yes |
| Teacher Covariates |  |  | Yes |  |  | Yes |  |  | Yes |
| School FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| School clustered SE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 2,481 | 2,481 | 2,481 | 2,489 | 2,489 | 2,489 | 2,518 | 2,518 | 2,518 |
| *R2* | 0.609 | 0.612 | 0.613 | 0.703 | 0.704 | 0.706 | 0.638 | 0.640 | 0.642 |
|  | | | | | | | | | |
|  |  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | |
|  | Wave 2 Self-Concept (Male Students Only) | | | | | | | | |
|  |  | | | | | | | | |
|  |  | | | | | | | | |
|  | Chinese | Chinese | Chinese | English | English | English | Math | Math | Math |
|  | | | | | | | | | |
| Match | -0.090 | -0.163 | -0.150 | 0.016 | 0.062 | -0.018 | -0.037 | 0.010 | -0.047 |
|  | (0.115) | (0.116) | (0.111) | (0.104) | (0.087) | (0.088) | (0.065) | (0.068) | (0.064) |
|  | | | | | | | | | |
| Student Covariates | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Homeroom Covariates |  | Yes | Yes |  | Yes | Yes |  | Yes | Yes |
| Teacher Covariates |  |  | Yes |  |  | Yes |  |  | Yes |
| School FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| School clustered SE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 2,481 | 2,481 | 2,481 | 2,489 | 2,489 | 2,489 | 2,518 | 2,518 | 2,518 |
| *R2* | 0.073 | 0.079 | 0.082 | 0.259 | 0.264 | 0.268 | 0.233 | 0.237 | 0.244 |
|  | | | | | | | | | |
|  |  | | | | | | | | |