**Supplemental Materials**

Through the eyes of my peers: Sharing perceptions of unequal treatment in ethno-racially diverse classrooms

**Results**

Table S1. Study 1. Null model, controls and main effects of minority and majority peer perceptions predicting own perceived unequal treatment in US study.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Null model | | | Controls | | | Minority and majority peer perceptions main effects | | |
|  | B (S.E.) | CI | p | B (S.E.) | CI | p | B (S.E.) | CI | p |
| **INDIVIDUAL LEVEL** |  |  |  |  |  |  |  |  |  |
| Minority perceptions |  |  |  |  |  |  | 0.285 (0.037) | 0.225, 0.345 | 0.000 |
| Majority perceptions |  |  |  |  |  |  | 0.338 (0.017) | 0.310, 0.367 | 0.000 |
| Minority perceptions\* Group status | |  |  |  |  |  |  |  |  |
| Majority perceptions\* Group status | |  |  |  |  |  |  |  |  |
| **Control variables** |  |  |  |  |  |  |  |  |  |
| Age |  |  |  | 0.14 (0.04) | 0.07, 0.21 | 0.001 | 0.086 (0.033) | 0.031, 0.141 | 0.010 |
| Gender |  |  |  | -0.06 (0.05) | -0.14, 0.03 | 0.256 | -0.068 (0.050) | -0.151, 0.015 | 0.176 |
| Group status |  |  |  | 0.12 (0.06) | 0.01, 0.22 | 0.061 | 0.113 (0.062) | 0.011, 0.214 | 0.068 |
| **CLASS LEVEL** |  |  |  |  |  |  |  |  |  |
| Composition |  |  |  | 0.31 (0.33) | -0.24, 0.86 | 0.359 | -0.048 (0.077) | -0.174, 0.079 | 0.536 |
| Composition\*Minority perceptions | |  |  |  |  |  |  |  |  |
| Composition\*Majority perceptions | |  |  |  |  |  |  |  |  |
| **Residual variance** |  |  |  |  |  |  |  |  |  |
| Individual level | 0.42 (0.06) | 0.33, 0.52 | 0.000 | 0.43 (0.06) | 0.33, 0.53 | 0.000 | 0.404 (0.055) | 0.313, 0.495 | 0.000 |
| Class level | 0.05 (0.04) | -0.02, 0.11 | 0.215 | 0.03 (0.03) | -0.02, 0.07 | 0.305 | 0.000 (0.003) | -0.005, 0.005 | 0.957 |
| **Model fit** |  |  |  |  |  |  |  |  |  |
| Number of parameters | 3 |  |  | 7 |  |  | 9 |  |  |
| Deviance (-2LL) | 1530.62 |  |  | 1481.62 |  |  | 1412.202 |  |  |
| Akaike (AIC) | 1536.61 |  |  | 1495.62 |  |  | 1430.201 |  |  |
| Bayesian (BIC) | 1550.47 |  |  | 1527.78 |  |  | 1471.551 |  |  |
| Sample-Size Adjusted BIC | 1540.95 |  |  | 1505.55 |  |  | 1442.973 |  |  |

Table S2. Study 2a. Null model, controls and main effects of minority and majority peer perceptions predicting own perceived unequal treatment in Belgian study. Cross-sectional effects.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Null model | | | Controls | | | Minority & majority perceptions main effects | | |
|  | B (S.E.) | CI | P | B (S.E.) | CI | P | B (S.E.) | CI | P |
| **INDIVIDUAL LEVEL** |  |  |  |  |  |  |  |  |  |
| Minority perceptions |  |  |  |  |  |  | 0.267 (0.037) | 0.206, 0.327 | 0.000 |
| Minority perceptions\* Group status | |  |  |  |  |  |  |  |  |
| Majority perceptions |  |  |  |  |  |  | 0.376 (0.053) | 0.288, 0.464 | 0.000 |
| Majority perceptions\* Group status | |  |  |  |  |  |  |  |  |
| **Control variables** |  |  |  |  |  |  |  |  |  |
| Age |  |  |  | 0.12 (0.02) | 0.08, 0.15 | 0.000 | 0.043(0.021) | 0.009, 0.077 | 0.039 |
| Gender |  |  |  | -0.20 (0.04) | -0.27, -0.13 | 0.000 | -0.122 (0.048) | -0.201, -0.043 | 0.011 |
| Group status |  |  |  | -0.02 (0.06) | -0.12, 0.09 | 0.803 | 0.019 (0.063) | -0.085, 0.123 | 0.767 |
| Cognitive test |  |  |  | -0.50 (0.14) | -0.72, -0.28 | 0.000 | -0.346 (0.161) | -0.612, -0.081 | 0.032 |
| **CLASS LEVEL** |  |  |  |  |  |  |  |  |  |
| Composition |  |  |  | -0.20 (0.11) | -0.37, -0.02 | 0.073 | -0.163 (0.101) | -0.328, 0.003 | 0.106 |
| Composition \* Minority perceptions | |  |  |  |  |  |  |  |  |
| Composition \* Majority perceptions | |  |  |  |  |  |  |  |  |
| **Residual variance** |  |  |  |  |  |  |  |  |  |
| Individual level | 0.89 (0.02) | 0.85, 0.92 | 0.000 | 0.86 (0.03) | 0.81, 0.91 | 0.000 | 0.867 (0.032) | 0.815, 0.919 | 0.000 |
| Class level | 0.10 (0.02) | 0.08, 0.13 | 0.000 | 0.08 (0.02) | 0.04, 0.11 | 0.000 | 0.001 (0.020) | -0.031, 0.034 | 0.948 |
| Model fit |  |  |  |  |  |  |  |  |  |
| Number of parameters | 3 |  |  | 8.00 |  |  | 10 |  |  |
| Deviance (-2LL) | 10495.7 |  |  | 6603.18 |  |  | 4378.966 |  |  |
| Akaike (AIC) | 10501.7 |  |  | 6619.18 |  |  | 4398.966 |  |  |
| Bayesian (BIC) | 10520.39 |  |  | 6665.43 |  |  | 4452.893 |  |  |
| Sample-Size Adjusted BIC | 10510.86 |  |  | 6640.02 |  |  | 4421.125 |  |  |

Table S3. Study 2b. Null model, controls and main effects of minority and majority peer perceptions predicting own perceived unequal treatment in Belgian study. Longitudinal effects.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Null model | | | Controls | | | Minority & majority perceptions main effects | | |
|  | B (S.E.) | CI | P | B (S.E.) | CI | P | B (S.E.) | CI | P |
| **INDIVIDUAL LEVEL** |  |  |  |  |  |  |  |  |  |
| Minority perceptions |  |  |  |  |  |  | 0.114 (0.041) | 0.046, 0.182 | 0.006 |
| Minority perceptions\* Group status |  |  |  |  |  |  |  |  |  |
| Majority perceptions |  |  |  |  |  |  | -0.056 (0.054) | -0.145, 0.033 | 0.299 |
| Majority perceptions\* Group status |  |  |  |  |  |  |  |  |  |
| **Control variables** |  |  |  |  |  |  |  |  |  |
| Age |  |  |  | 0.11 (0.02) | 0.07, 0.15 | 0.000 | 0.112 (0.026) | 0.069, 0.155 | 0.000 |
| Gender |  |  |  | -0.05 (0.04) | -0.13, 0.02 | 0.235 | -0.096 (0.054) | -0.185, -0.006 | 0.078 |
| Group status |  |  |  | -0.03 (0.06) | -0.13, 0.08 | 0.701 | -0.025 (0.065) | -0.133, 0.082 | 0.699 |
| Cognitive test |  |  |  | -0.02 (0.14) | -0.25, 0.22 | 0.914 | 0.279 (0.169) | 0.001, 0.557 | 0.099 |
| Own perceptions Time1 |  |  |  | 0.39 (0.02) | 0.35, 0.43 | 0.000 | 0.387 (0.029) | 0.340, 0.435 | 0.000 |
| **CLASS LEVEL** |  |  |  |  |  |  |  |  |  |
| Composition |  |  |  | -0.11 (0.11) | -0.29, 0.07 | 0.322 | 0.273 (0.152) | 0.023, 0.523 | 0.073 |
| Composition \* Minority perceptions |  |  |  |  |  |  |  |  |  |
| Composition \* Majority perceptions |  |  |  |  |  |  |  |  |  |
| **Residual variance** |  |  |  |  |  |  |  |  |  |
| Individual level | 0.86 (0.02) | 0.82, 0.90 | 0.000 | 0.75 (0.03) | 0.70, 0.80 | 0.000 | 0.757 (0.035) | 0.700, 0.814 | 0.000 |
| Class level | 0.10 (0.02) | 0.07, 0.13 | 0.000 | 0.04 (0.02) | 0.01, 0.07 | 0.011 | 0.013 (0.020) | -0.020, 0.046 | 0.530 |
| Model fit |  |  |  |  |  |  |  |  |  |
| Number of parameters | 3 |  |  | 9 |  |  | 11 |  |  |
| Deviance (-2LL) | 7626.52 |  |  | 4439.72 |  |  | 2922.446 |  |  |
| Akaike (AIC) | 7632.53 |  |  | 4457.72 |  |  | 2944.445 |  |  |
| Bayesian (BIC) | 7650.29 |  |  | 4506.734 |  |  | 2999.824 |  |  |
| Sample-Size Adjusted BIC | 7640.76 |  |  | 4478.142 |  |  | 2964.885 |  |  |

Table S4. Study 2a and 2b. Main effects of minority and majority peer perceptions predicting own perceived unequal treatment controlling for parental education in Belgian study. Cross-sectional and longitudinal effects.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Minority perceptions cross-sectional main effects | | | Minority perceptions longitudinal main effects | | | Majority perceptions cross-sectional main effects | | | Majority perceptions longitudinal main effects | | |
|  | B (S.E.) | CI | P | B (S.E.) | CI | P | B (S.E.) | CI | P | B (S.E.) | CI | P |
| **INDIVIDUAL LEVEL** |  |  |  |  |  |  |  |  |  |  |  |  |
| Minority perceptions | 0.378 (0.045) | 0.304, 0.452 | 0.000 | 0.136 (0.043) | 0.066, 0.207 | 0.001 |  |  |  |  |  |  |
| Minority perceptions\* Group status |  |  |  |  |  |  |  |  |  |  |  |  |
| Majority perceptions |  |  |  |  |  |  | 0.497 (0.060) | 0.398, 0.597 | 0.000 | -0.036 (0.056) | -0.128, 0.056 | 0.523 |
| Majority perceptions\* Group status |  |  |  |  |  |  |  |  |  |  |  |  |
| **Control variables** |  |  |  |  |  |  |  |  |  |  |  |  |
| Age | 0.081 (0.021) | 0.047, 0.116 | 0.000 | 0.108 (0.025) | 0.068, 0.149 | 0.000 | 0.048 (0.022) | 0.011, 0.085 | 0.032 | 0.100 (0.026) | 0.057, 0.144 | 0.000 |
| Gender | -0.189 (0.048) | -0.268, -0.110 | 0.000 | -0.062 (0.052) | -0.148, 0.023 | 0.232 | -0.131 (0.046) | -0.207, -0.056 | 0.004 | -0.058 (0.049) | -0.138, 0.023 | 0.241 |
| Group status | 0.002 (0.063) | -0.102, 0.106 | 0.972 | 0.011 (0.069) | -0.103, 0.125 | 0.872 | 0.015 (0.068) | -0.097, 0.127 | 0.824 | -0.019 (0.070) | -0.135, 0.096 | 0.785 |
| Cognitive test | -0.447 (0.148) | -0.691, -0.203 | 0.003 | 0.101 (0.157) | -0.157, 0.360 | 0.519 | -0.428 (0.158) | -0.688, -0.169 | 0.007 | 0.031 (0.170) | -0.249, 0.311 | 0.854 |
| Parental education | 0.049 (0.042) | -0.020, 0.118 | 0.242 | 0.081 (0.050) | -0.001, 0.163 | 0.103 | 0.045 (0.040) | -0.021, 0.110 | 0.262 | 0.021 (0.048) | -0.059, 0.101 | 0.663 |
| Own perceptions Time1 |  |  |  | 0.360 (0.028) | 0.314, 0.406 | 0.000 |  |  |  | 0.401 (0.028) | 0.356, 0.447 | 0.000 |
| **CLASS LEVEL** |  |  |  |  |  |  |  |  |  |  |  |  |
| Composition | -0.202 (0.097) | -0.360, -0.043 | 0.037 | -0.010 (0.119) | -0.206, 0.186 | 0.932 | -0.092 (0.115) | -0.281, 0.096 | 0.420 | 0.169 (0.149) | -0.077, 0.414 | 0.258 |
| Composition \* Minority perceptions |  |  |  |  |  |  |  |  |  |  |  |  |
| Composition \* Majority perceptions |  |  |  |  |  |  |  |  |  |  |  |  |
| **Residual variance** |  |  |  |  |  |  |  |  |  |  |  |  |
| Individual level | 0.885 (0.031) | 0.834, 0.937 | 0.000 | 0.758 (0.035) | 0.700, 0.815 | 0.000 | 0.862 (0.031) | 0.811, 0.913 | 0.000 | 0.731 (0.032) | 0.679, 0.784 | 0.000 |
| Class level | 0.027 (0.014) | 0.004, 0.050 | 0.055 | 0.040 (0.024) | 0.000, 0.079 | 0.096 | 0.003 (0.020) | -0.030, 0.036 | 0.900 | 0.039 (0.018) | 0.009, 0.070 | 0.032 |
| Model fit |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of parameters | 10 |  |  | 11 |  |  | 10 |  |  | 11 |  |  |
| Deviance (-2LL) | 5132.382 |  |  | 3407.758 |  |  | 5090.22 |  |  | 3534.326 |  |  |
| Akaike (AIC) | 5152.382 |  |  | 3429.758 |  |  | 5110.221 |  |  | 3556.325 |  |  |
| Bayesian (BIC) | 5207.725 |  |  | 3486.696 |  |  | 5165.669 |  |  | 3613.813 |  |  |
| Sample-Size Adjusted BIC | 5175.955 |  |  | 3451.755 |  |  | 5133.899 |  |  | 3578.871 |  |  |

Table S5. Study 2b. Minority and majority peer perceptions of unequal treatment predicting own perceived unequal treatment in Belgian study. Longitudinal main effects for separate minority and majority subsamples

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Minority peers main effects | | | | | | Majority peers main effects | | | | | |
|  | Minority sample | | | Majority sample | | | Minority sample | | | Majority sample | | |
|  | B (S.E.) | CI | P | B (S.E.) | CI | P | B (S.E.) | CI | P | B (S.E.) | CI | P |
| **INDIVIDUAL LEVEL** |  |  |  |  |  |  |  |  |  |  |  |  |
| Minority perceptions | 0.12 (0.06) | 0.02, 0.22 | 0.040 | 0.09 (0.04) | 0.02, 0.16 | 0.039 |  |  |  |  |  |  |
| Majority perceptions |  |  |  |  |  |  | -0.08 (0.078) | -0.21, 0.05 | 0.304 | 0.05 (0.07) | -0.06, 0.17 | 0.46 |
| **Control variables** |  |  |  |  |  |  |  |  |  |  |  |  |
| Age | 0.09 (0.03) | 0.04, 0.14 | 0.005 | 0.12 (0.03) | 0.08, 0.17 | 0.000 | 0.09 (0.04) | 0.02, 0.17 | 0.029 | 0.11 (0.03) | 0.06, 0.16 | 0.000 |
| Gender | -0.00 (0.08) | -0.13, 0.12 | 0.956 | -0.12 (0.07) | -0.23, -0.01 | 0.070 | -0.03 (0.10) | -0.19, 0.14 | 0.798 | -0.08 (0.06) | -0.17, 0.01 | 0.152 |
| Cognitive test | 0.23 (0.21) | -0.11, 0.57 | 0.258 | 0.14 (0.21) | -0.21, 0.48 | 0.517 | 0.44 (0.27) | -0.01, 0.88 | 0.106 | -0.16 (0.20) | -0.49, 0.16 | 0.403 |
| Own perceptions Time1 | 0.36 (0.04) | 0.29, 0.44 | 0.000 | 0.34 (0.04) | 0.30, 0.42 | 0.000 | 0.43 (0.05) | 0.35, 0.52 | 0 | 0.37 (0.03) | 0.32, 0.43 | 0.000 |
| **CLASS LEVEL** |  |  |  |  |  |  |  |  |  |  |  |  |
| Minority proportion | -0.23 (0.14) | -0.46, -0.01 | 0.093 | 0.44 (0.20) | 0.11, 0.77 | 0.029 | 0.14 (0.22) | -0.22, 0.51 | 0.518 | 0.18 (0.18) | -0.11, 0.48 | 0.31 |
| **Residual variance** |  |  |  |  |  |  |  |  |  |  |  |  |
| Individual level | 0.85 (0.06) | 0.75, 0.94 | 0.000 | 0.69 (0.04) | 0.61, 0.76 | 0.000 | 0.88 (0.08) | 0.76, 1.01 | 0.000 | 0.68 (0.04) | 0.62, 0.74 | 0 |
| Class level | 0.04 (0.03) | -0.01, 0.10 | 0.200 | 0.01 (0.03) | -0.04, 0.06 | 0.771 | 0.02 (0.06) | '-0.08, 0.12 | 0.776 | 0.03 (0.02) | 0.01, 0.06 | 0.05 |
| Model fit |  |  |  |  |  |  |  |  |  |  |  |  |
| Number of parameters | 9 |  |  | 9 |  |  | 9 |  |  | 9 |  |  |
| Deviance (-2LL) | 1805.98 |  |  | 1837.84 |  |  | 1073.924 |  |  | 2610.636 |  |  |
| Akaike (AIC) | 1823.976 |  |  | 1855.836 |  |  | 1091.925 |  |  | 2628.637 |  |  |
| Bayesian (BIC) | 1864.474 |  |  | 1897.332 |  |  | 1127.689 |  |  | 2673.22 |  |  |
| Sample-Size Adjusted BIC | 1835.899 |  |  | 1868.754 |  |  | 1099.132 |  |  | 2644.635 |  |  |