Supplementary Tables

*Notes* (for all Tables): Values represent slopes, in units of % increase per unit change in social role convergence measure, with p-values in parentheses. N.D. indicates no data available.

**Table S1.** Summary of trends in the percentage of females for USA Championships using labor force in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|------------|------------|------------|
| 40–44     | 3.7636 (0.00365) | 0.3748 (0.884) | 6.695 (0.0145) |
| 45–49     | 1.7775 (0.188) | 2.564 (0.328) | 6.5113 (0.0623) |
| 50–54     | 1.9698 (0.177) | -2.2992 (0.320) | -0.2614 (0.937) |
| 55–59     | -0.6776 (0.649) | -6.007 (0.00453) | -5.816 (0.0192) |
| 60–64     | 1.445 (0.339) | 2.918 (0.299) | -1.389 (0.706) |
| 65–69     | 1.850 (0.151) | 4.8506 (0.0436) | 2.6296 (0.392) |
| 70–74     | -0.0150 (0.994) | 2.5138 (0.395) | 5.52336 (0.148) |
| Overall   | 1.7423 (0.00114) | 0.05033 (0.9569) | 1.656 (0.1627) |

**Table S2.** Summary of trends in the percentage of females for USA Championships using labor force at age 8 in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|------------|------------|------------|
| 40–44     | 1.1316 (<0.0001) | 0.2576 (0.594) | -1.814 (0.00582) |
| 45–49     | 0.39536 (0.264) | 0.388 (0.561) | -0.2276 (0.830) |
| 50–54     | 1.9313 (<0.0001) | 1.356 (0.088) | 0.9765 (0.477) |
| 55–59     | 1.6177 (<0.0001) | 2.200 (0.00823) | 3.0837 (0.0199) |
| 60–64     | 0.2639 (0.3455) | 1.712 (0.120) | 2.624 (0.107) |
| 65–69     | 0.07927 (0.7359) | -0.3922 (0.4579) | 1.5374 (0.180) |
| 70–74     | -0.590 (0.08059) | -0.4344 (0.2697) | -1.3919 (0.0181) |
| Overall   | 0.6375 (<0.0001) | 0.3356 (0.13585) | -0.3253 (0.3729) |

**Table S3.** Summary of trends in the percentage of females for USA Championships using labor force at age 14 in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|------------|------------|------------|
| 40–44     | 0.9292 (<0.0001) | 0.2501 (0.548) | -1.3917 (0.0181) |
| 45–49     | 0.2899 (0.285) | 0.2141 (0.674) | -0.4625 (0.578) |
| 50–54     | 1.4853 (<0.0001) | 1.0255 (0.0687) | 0.8377 (0.431) |
| 55–59     | 0.6907 (0.117) | 1.924 (0.0051) | 2.1787 (0.0138) |
| 60–64     | 0.2915 (0.483) | -1.336 (0.2411) | 3.890 (0.152) |
| 65–69     | -0.3805 (0.1488) | -3.287 (<0.0001) | -3.631 (0.00835) |
| 70–74     | -0.7138 (0.0416) | -0.7439 (0.3077) | -3.2308 (0.0553) |
| Overall   | 0.5300 (<0.0001) | 0.2490 (0.25147) | -0.3238 (0.3667) |
Table S4. Summary of trends in the percentage of females for yearly rankings using labor force in place of year

| Age Group | 1988–2012       | 1998–2012       | 2007–2012       |
|-----------|-----------------|-----------------|-----------------|
| 40–44     | -0.1104 (0.885) | 0.7727 (0.436)  | 2.0533 (0.196)  |
| 45–49     | -0.4999 (0.529) | -2.6040 (0.0196)| -0.3545 (0.809) |
| 50–54     | 0.8460 (0.185)  | -1.4177 (0.1320)| -0.8940 (0.575) |
| 55–59     | 0.8147 (0.1747) | 2.0163 (0.0450) | 3.076 (0.0382)  |
| 60–64     | 2.3758 (<0.0001)| 1.2436 (0.1593) | -0.8212 (0.445) |
| 65–69     | 0.8612 (0.2289) | 3.589 (0.00208) | 3.823 (0.0270)  |
| 70–74     | 3.059 (0.0045)  | 3.9138 (0.00913)| 2.6961 (0.179)  |
| Overall   | 0.8531 (0.00139)| 0.7682 (0.0647)| 1.1085 (0.0529) |

Table S5. Summary of trends in the percentage of females for yearly rankings using labor force at age 8 in place of year

| Age Group | 1988–2012       | 1998–2012       | 2003–2012       |
|-----------|-----------------|-----------------|-----------------|
| 40–44     | 0.1693 (0.3056) | -0.0109 (0.9571)| -0.8025 (0.1818)|
| 45–49     | 0.6057 (0.00146)| 1.0921 (0.00040)| 0.9806 (0.2974) |
| 50–54     | 0.6051 (0.00186)| 0.6765 (0.0549) | 0.8258 (0.339)  |
| 55–59     | -0.00118 (0.994)| -0.4962 (0.3145)| -3.2574 (0.1625)|
| 60–64     | 0.2005 (0.0802) | -0.1259 (0.7871)| 0.7505 (0.273)  |
| 65–69     | -0.1029 (0.5052)| -0.8089 (0.0144)| -4.682 (0.00192)|
| 70–74     | -0.1767 (0.299) | -0.6327 (0.012) | -0.7596 (0.2928)|
| Overall   | 0.1871 (0.00225)| -0.09563 (0.416)| -0.3094 (0.3328)|

Table S6. Summary of trends in the percentage of females for yearly rankings using labor force at age 14 in place of year

| Age Group | 1988–2012       | 1998–2012       | 2003–2012       |
|-----------|-----------------|-----------------|-----------------|
| 40–44     | 0.1560 (0.2356) | 0.02476 (0.8941)| -1.6214 (0.1677)|
| 45–49     | 0.5166 (0.00031)| 0.7275 (0.00082)| 0.3662 (0.4548) |
| 50–54     | 0.4456 (0.00216)| 0.3936 (0.135)  | 0.3350 (0.753)  |
| 55–59     | -0.2654 (0.116) | -0.5784 (0.1217)| -1.3535 (0.0691)|
| 60–64     | 0.1525 (0.3972) | -0.9765 (0.0150) | 1.213 (0.423)  |
| 65–69     | -0.2020 (0.1523)| -1.2246 (0.0162) | -3.131 (0.01518)|
| 70–74     | -0.0197 (0.9179)| -1.431 (0.00261) | -6.502 (0.00777)|
| Overall   | 0.1766 (0.00202)| -0.00103 (0.993) | -0.5468 (0.1064)|
**Table S7.** Summary of trends in the percentage of females for USA Championships using wage gap in place of year

| Age Group | 1988–2012       | 1998–2012       | 2003–2012       |
|-----------|-----------------|-----------------|-----------------|
| 40–44     | 1.6708 (<0.0001)| 1.3130 (0.110)  | -2.6544 (0.213) |
| 45–49     | 0.7422 (0.0331) | 0.9938 (0.263)  | -2.427 (0.353)  |
| 50–54     | 1.6717 (<0.0001)| 1.4814 (0.076)  | 2.672 (0.337)   |
| 55–59     | 1.1947 (0.00141)| 1.6276 (0.0358) | 3.7414 (0.0694) |
| 60–64     | 0.06011 (0.879) | -1.2558 (0.202) | 4.263 (0.139)   |
| 65–69     | -0.1669 (0.640) | -2.037 (0.02178)| -3.3053 (0.196)|
| 70–74     | -0.4513 (0.403) | 0.00895 (0.993) | -3.929 (0.240)  |
| Overall   | 0.9223 (<0.0001)| 0.6146 (0.05904)| 0.1956 (0.8359) |

**Table S8.** Summary of trends in the percentage of females for USA Championships using wage gap at age 14 in place of year

| Age Group | 1988–2012       | 1998–2012       | 2003–2012       |
|-----------|-----------------|-----------------|-----------------|
| 40–44     | N.D.            | N.D.            | -2.3636 (0.0385) |
| 45–49     | N.D.            | N.D.            | N.D.            |
| 50–54     | N.D.            | N.D.            | N.D.            |
| 55–59     | N.D.            | N.D.            | N.D.            |
| 60–64     | N.D.            | N.D.            | N.D.            |
| 65–69     | N.D.            | N.D.            | N.D.            |
| 70–74     | N.D.            | N.D.            | N.D.            |
| Overall   | N.D.            | N.D.            | -2.3636 (0.0385) |

*Note.* a Includes 6 years of data.

**Table S9.** Summary of trends in the percentage of females for yearly rankings using wage gap in place of year

| Age Group | 1988–2012       | 1998–2012       | 2003–2012       |
|-----------|-----------------|-----------------|-----------------|
| 40–44     | -0.0462 (0.8442)| 0.0296 (0.9292) | -1.682 (0.171)  |
| 45–49     | 0.6811 (0.00273)| 1.5553 (0.00036)| 1.607 (0.1882)  |
| 50–54     | 0.5326 (0.00448)| 0.9195 (0.0172) | 2.554 (0.0738)  |
| 55–59     | 0.0601 (0.7285) | -0.1317 (0.7491)| -1.155 (0.3492) |
| 60–64     | 0.2360 (0.199)  | -0.7151 (0.0357)| 1.199 (0.0563)  |
| 65–69     | -0.1455 (0.5133)| -1.0825 (0.0378)| -4.016 (0.0194) |
| 70–74     | 0.2804 (0.331)  | -1.1171 (0.0865)| 0.1031 (0.961)  |
| Overall   | 0.2570 (0.00143)| 0.07662 (0.649) | 0.17194 (0.7370) |
Table S10. Summary of trends in the percentage of females for yearly rankings using wage gap at age 14 in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|-----------|-----------|-----------|
| 40–44     | N.D.      | N.D.      | -0.8452 (0.169) |
| 45–49     | N.D.      | N.D.      | N.D.      |
| 50–54     | N.D.      | N.D.      | N.D.      |
| 55–59     | N.D.      | N.D.      | N.D.      |
| 60–64     | N.D.      | N.D.      | N.D.      |
| 65–69     | N.D.      | N.D.      | N.D.      |
| 70–74     | N.D.      | N.D.      | N.D.      |
| Overall   | N.D.      | N.D.      | -0.8452 (0.169) |

Table S11. Summary of trends in the percentage of females for USA Championships using percentage female high school sports participation in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|-----------|-----------|-----------|
| 40–44     | 2.2723 (<0.0001) | 9.0555 (0.0377) | -4.239 (0.558) |
| 45–49     | 0.56296 (0.297)  | -0.1576 (0.976)  | -11.732 (0.216) |
| 50–54     | 2.1337 (<0.0001) | 5.2875 (0.273)  | 1.100 (0.907)  |
| 55–59     | 0.63345 (0.259)  | 5.3273 (0.241)  | 7.6929 (0.289) |
| 60–64     | 0.1504 (0.791)   | -14.547 (0.0102) | -8.046 (0.445) |
| 65–69     | 0.1689 (0.741)   | -1.0351 (0.845) | 9.2785 (0.289) |
| 70–74     | -0.8784 (0.271)  | -0.7800 (0.897) | -0.8359 (0.939) |
| Overall   | 1.0315 (<0.0001) | 2.010 (0.2810) | -1.596 (0.62476) |

Table S12. Summary of trends in the percentage of females for USA Championships using percentage female high school sports participation at age 8 in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|-----------|-----------|-----------|
| 40–44     | N.D.      | N.D.      | 0.1629 (0.436) |
| 45–49     | N.D.      | N.D.      | -1.6833 (0.1777) |
| 50–54     | N.D.      | N.D.      | N.D.      |
| 55–59     | N.D.      | N.D.      | N.D.      |
| 60–64     | N.D.      | N.D.      | N.D.      |
| 65–69     | N.D.      | N.D.      | N.D.      |
| 70–74     | N.D.      | N.D.      | N.D.      |
| Overall   | N.D.      | N.D.      | -0.0644 (0.8087) |

Note. aIncludes 2 years of data. bIncludes 4 years of data. cIncludes 6 years of data.
Table S13. Summary of trends in the percentage of females for USA Championships using percentage female high school sports participation at age 14 in place of year.

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|------------|------------|------------|
| 40–44     | N.D.       | N.D.       | -2.01 (0.01898)a |
| 45–49     | N.D.       | N.D.       | -0.3458 (0.2115)b |
| 50–54     | N.D.       | N.D.       | -0.960 (0.03087)c |
| 55–59     | N.D.       | N.D.       | N.D.       |
| 60–64     | N.D.       | N.D.       | N.D.       |
| 65–69     | N.D.       | N.D.       | N.D.       |
| 70–74     | N.D.       | N.D.       | N.D.       |
| Overall   | N.D.       | N.D.       | -0.628 (0.00385)d |

*Note.* aIncludes 7 years of data. bIncludes 5 years of data. cIncludes 3 years of data. dIncludes 9 years of data.

Table S14. Summary of trends in the percentage of females for yearly rankings using percentage female high school sports participation in place of year.

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|------------|------------|------------|
| 40–44     | 0.09603 (0.754) | 0.7654 (0.734) | -5.5332 (0.243) |
| 45–49     | 0.5826 (0.0584) | 5.2049 (0.0548) | -1.887 (0.6477) |
| 50–54     | 0.7816 (0.00158) | 3.1956 (0.165) | 1.9123 (0.687) |
| 55–59     | -0.1838 (0.4428) | -3.9730 (0.1115) | -6.841 (0.1328) |
| 60–64     | 0.5697 (0.0176) | -3.280 (0.1225) | 1.604 (0.616) |
| 65–69     | -0.1959 (0.5017) | -7.259 (0.01396) | -10.590 (0.0377) |
| 70–74     | 0.5580 (0.140) | -10.570 (0.0025) | -13.713 (0.0118) |
| Overall   | 0.3321 (0.00191) | -1.4300 (0.1523) | -3.9917 (0.0181) |

Table S15. Summary of trends in the percentage of females for yearly rankings using percentage female high school sports participation at age 8 in place of year.

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|------------|------------|------------|
| 40–44     | N.D.       | N.D.       | -0.3082 (0.2855)a |
| 45–49     | N.D.       | N.D.       | -0.5692 (0.0566)b |
| 50–54     | N.D.       | N.D.       | N.D.       |
| 55–59     | N.D.       | N.D.       | N.D.       |
| 60–64     | N.D.       | N.D.       | N.D.       |
| 65–69     | N.D.       | N.D.       | N.D.       |
| 70–74     | N.D.       | N.D.       | N.D.       |
| Overall   | N.D.       | N.D.       | -0.4018 (0.077)c |

*Note.* aIncludes 3 years of data. bIncludes 2 years of data. cIncludes 5 years of data.
### Table S16. Summary of trends in the percentage of females for yearly rankings using percentage female high school sports participation at age 14 in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|------------|------------|-----------|
| 40–44     | N.D.       | N.D.       | -1.8970 (0.227)<sup>a</sup> |
| 45–49     | N.D.       | N.D.       | 0.2073 (0.651)<sup>b</sup>  |
| 50–54     | N.D.       | N.D.       | -0.2871 (0.0678)<sup>c</sup> |
| 55–59     | N.D.       | N.D.       | N.D.      |
| 60–64     | N.D.       | N.D.       | N.D.      |
| 65–69     | N.D.       | N.D.       | N.D.      |
| 70–74     | N.D.       | N.D.       | N.D.      |
| Overall   | N.D.       | N.D.       | -0.2332 (0.141)<sup>d</sup>  |

*Note.* <sup>a</sup>Includes 6 years of data.  <sup>b</sup>Includes 3 years of data.  <sup>c</sup>Includes 3 years of data.  <sup>d</sup>Includes 6 years of data.

### Table S17. Summary of trends in the percentage of females for USA Championships using percentage female Olympic participation in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|------------|------------|-----------|
| 40–44     | 0.9042 (<0.0001) | 0.7762 (0.140) | -1.337 (0.1348) |
| 45–49     | 0.1700 (0.4020) | -0.00490 (0.994) | -1.7096 (0.1669) |
| 50–54     | 0.8528 (<0.0001) | 1.031 (0.0558) | 1.507 (0.253) |
| 55–59     | 0.28414 (0.1721) | 1.1626 (0.0235) | 2.029 (0.0362) |
| 60–64     | 0.0393 (0.8569) | -1.001 (0.134) | 1.626 (0.290) |
| 65–69     | -0.0798 (0.6788) | -1.167 (0.0478) | -2.120 (0.0598) |
| 70–74     | -0.3744 (0.1890) | -0.0407 (0.953) | -2.944 (0.0485) |
| Overall   | 0.3840 (<0.0001) | 0.3254 (0.13256) | -0.2906 (0.5103) |

### Table S18. Summary of trends in the percentage of females for USA Championships using percentage female Olympic participation at age 8 in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|------------|------------|-----------|
| 40–44     | 1.041 (0.0115) | -0.4236 (0.440) | -1.319 (0.0103) |
| 45–49     | 0.9546 (0.1816) | 1.131 (0.398) | -0.0211 (0.995) |
| 50–54     | 2.946 (0.0079) | 2.425 (0.072) | 1.839 (0.343) |
| 55–59     | 5.247 (0.00053) | 4.338 (0.0224) | 9.121 (0.0254) |
| 60–64     | 1.833 (0.233) | 4.025 (0.128) | 4.120 (0.178) |
| 65–69     | 0.8206 (0.676) | 2.704 (0.453) | 5.085 (0.315) |
| 70–74     | 0.1914 (0.874) | -5.062 (0.286) | -3.959 (0.666) |
| Overall   | 1.351 (<0.0001) | 0.4120 (0.3173) | 0.5590 (0.2860) |
Table S19. Summary of trends in the percentage of females for USA Championships using percentage female Olympic participation at age 14 in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|-----------|-----------|-----------|
| 40–44     | 1.243 (<0.0001) | 0.5114 (0.2436) | -0.4373 (0.4707) |
| 45–49     | 0.2496 (0.501) | 0.0630 (0.9072) | -0.2746 (0.6926) |
| 50–54     | 2.890 (<0.0001) | 1.760 (0.135) | 2.303 (0.443) |
| 55–59     | -0.3280 (0.7071) | 2.613 (0.032) | 2.281 (0.122) |
| 60–64     | -3.630 (0.03834) | -4.514 (0.0445) | -1.436 (0.716) |
| 65–69     | -3.439 (0.00717) | -7.123 (0.00053) | -6.986 (0.00413) |
| 70–74     | -6.826 (0.00837) | -4.110 (0.2628) | -4.110 (0.2628) |
| Overall   | 0.8708 (<0.0001) | 0.3731 (0.1839) | -0.2409 (0.5294) |

Table S20. Summary of trends in the percentage of females for yearly rankings using percentage female Olympic participation in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|-----------|-----------|-----------|
| 40–44     | 0.1037 (0.372) | 0.1254 (0.5810) | -1.097 (0.296) |
| 45–49     | 0.3171 (0.00448) | 0.8651 (0.00097) | 0.4297 (0.6356) |
| 50–54     | 0.2812 (0.00159) | 0.3583 (0.132) | 0.1439 (0.890) |
| 55–59     | -0.1103 (0.204) | -0.3072 (0.2454) | -1.542 (0.1232) |
| 60–64     | 0.0490 (0.5891) | -0.5133 (0.0148) | 0.3147 (0.657) |
| 65–69     | -0.1079 (0.3134) | -0.7431 (0.0145) | -2.129 (0.0514) |
| 70–74     | 0.03092 (0.8218) | -1.289 (0.00027) | -3.110 (0.00734) |
| Overall   | 0.10496 (0.0078) | -0.11414 (0.269) | -0.8139 (0.0279) |

Table S21. Summary of trends in the percentage of females for yearly rankings using percentage female Olympic participation at age 8 in place of year

| Age Group | 1988–2012 | 1998–2012 | 2003–2012 |
|-----------|-----------|-----------|-----------|
| 40–44     | 0.1569 (0.502) | -0.2226 (0.347) | -0.4709 (0.1880) |
| 45–49     | 1.2711 (0.00106) | 2.081 (0.000534) | 2.118 (0.4532) |
| 50–54     | 0.9506 (0.0125) | 1.0668 (0.0822) | 0.9361 (0.489) |
| 55–59     | 0.2062 (0.7963) | -0.9033 (0.3944) | -26.1724 (0.282) |
| 60–64     | 0.8019 (0.10095) | 1.739 (0.298) | 1.739 (0.298) |
| 65–69     | 0.7222 (0.510) | -1.627 (0.3950) | -4.527 (0.0811) |
| 70–74     | 0.6744 (0.19357) | 0.4384 (0.918) | N.D. |
| Overall   | 0.5133 (0.00028) | 0.1832 (0.400) | -0.3395 (0.2877) |
Table S22. Summary of trends in the percentage of females for yearly rankings using percentage female Olympic participation at age 14 in place of year

| Age Group | 1988–2012   | 1998–2012   | 2003–2012   |
|-----------|-------------|-------------|-------------|
| 40–44     | 0.1891 (0.308) | 0.04615 (0.834) | -1.608 (0.321) |
| 45–49     | 0.6755 (0.00046) | 0.7398 (0.00247) | 0.3235 (0.3207) |
| 50–54     | 0.9172 (0.00354) | 0.9054 (0.0859) | 3.6530 (0.232) |
| 55–59     | -0.6256 (0.062) | -1.0177 (0.1582) | -4.6887 (0.0212) |
| 60–64     | -1.762 (0.00087) | -1.4625 (0.0259) | -0.0777 (0.9394) |
| 65–69     | -1.0790 (0.140) | -2.485 (0.1600) | -5.430 (0.0868) |
| 70–74     | -1.5775 (0.1853) | -4.7830 (0.097) | -4.7830 (0.097) |
| Overall   | 0.3103 (0.00216) | 0.2500 (0.103) | 0.00249 (0.9939) |