

# INDEX

- Abitur* degree, 10–11, 19–21, 23
- Academic ability, 74
- Academic achievement, 18–19  
educational aspirations and, 18–19  
gender gaps in, 181–208, 211–218  
relationship with prevalence of  
shadow education, 88–91,  
98*n*2, 103
- Academic high-school qualification  
(AHSQ), 7, 17, 19, 25, 27,  
28, 30, 31, 33
- Academic undermatch, 108
- Adjustment process, 10
- Aggression  
physical, 42, 44, 45, 62  
psychological, 42, 44  
sexual, 44, 63
- Albania, shadow education in, 79, 84,  
88
- American Society for Cell Biology,  
162
- Anticipation of discrimination, 31–32
- Anticipatory family obligations,  
117–121
- Apprenticeship (*Berufsausbildung*), 22
- Arrival of migrants, 11, 15–17
- Asian American students,  
socialization experiences of,  
159
- Asians and Pacific Islanders (APIs),  
model minority stereotype  
of, 155–174  
analyses, 164–165  
Asian American students,  
socialization experiences of,  
159, 166–168, 170–171  
doctoral education, 156–158, 161,  
163, 166, 167, 170, 171,  
173*n*8  
extending prior research, 161–162  
international vs domestic, 159–161  
limitations, 165–166  
research productivity, 168–170,  
173*n*5  
socialization, 157–159  
variables, 163–164, 165, 179
- Aspiration–achievement paradox,  
6–7, 8, 10
- Australia, shadow education in, 91
- Autonomy, 109, 111, 112, 116,  
121–123, 125
- Bamboo ceiling, 173
- Blocked opportunities framework, 8,  
10, 19, 30, 32, 35
- Brazil, shadow education in, 98*n*7
- California State University (CSU)  
high-achieving students enrollment,  
109
- Campus climate, and doctorate  
education, 179
- Center for the Integration of  
Research, Teaching, and  
Learning (CIRTL)  
Network, 162
- Child Behavior Check List, 53
- Children of immigrants  
educational attainment of,  
131–133  
group differences, 138–141  
high-brow cultural capital, 130,  
131, 133–135, 137–138,  
141, 143, 145, 147, 148

- highest math course in high school, 136
- home-country cultural capital, 131, 135, 138, 141, 143, 146, 148
- initial college major in STEM, 137
- multivariate analysis, 141–146
- race-ethnicity/immigrant generation, 137
- STEM bachelor's degree, completion of, 137
- STEM education, 129–150, 154
- China
  - academic performance, 43
  - doctoral education, 161
  - homeroom teacher system, 43
  - New Curriculum, 43
  - one fee system, 49
  - risk factors associated with teachers and classrooms, 53
  - school violence in, 41–65
- Classroom climate, 43, 63–64
- Classroom risk factors, 53–54, 60–61
- Coauthorship, 158
- Cognition framework of high-achieving students apply to college, 113–114
- Community support, for education, 48
- Compulsory education, 49
- Confucianism, 75
- Cultural capital
  - high-brow, 130, 131, 133–135, 137–138, 141, 143, 145, 147, 148
  - home-country, 131, 135, 138, 141, 143, 146, 148
- Cultural framework of high-achieving students apply to college, 113–114
- Cultural path-dependent model, 75–76
- Cultural repertoires, 113
- Cyprus, shadow education in, 79
- Czech Republic
  - educational systems, features of, 211
  - gender gaps in student academic achievement, 182, 183, 186, 187, 191, 192, 195, 200, 207, 208, 212–215, 217–218
  - shadow education in, 97*n*3
- Decision-making of students, 109–114, 117, 118, 120, 122, 125
- Denmark, shadow education in, 88
- Discrimination
  - anticipation of, 31–32
  - in doctorate education, 159, 172, 173*n*7
- Disruptive behavior, 47
- Doctoral education, 156–159, 161, 163, 166, 167, 170, 171, 173*n*8
  - academic motivation and, 161
  - international vs domestic, 159–161
  - language deficiency and, 160
  - opportunity costs and, 160
  - psychological burdens and, 160
  - social relationships and, 160
  - socialization process of, 158–159, 166–168, 170–171
- Duration of stay, and educational aspirations, 18, 28–31
- Economic deprivation, 47
- Economic model, 76–77
- Educational aspirations
  - and academic achievement, 18–19
  - anticipation of discrimination and, 31–32
  - bivariate results, 19–22
  - duration of stay and, 18, 28–31
  - generation status and, 15–17, 18, 28–31
  - hypothesis, 22, 25
  - among immigrant families, formation of, 8–10
  - among immigrant students, in Germany, 5–36

- of parents, 23–28
  - school tracking and, 10–11
  - socioeconomic status and, 18–19
- Educational attainment, 6, 7, 9, 10, 12, 15, 17, 18, 33
  - of immigrant children, 131–133
- Educational enrollment rate, 77–78, 109
- Educational inequality, 11
- Educational policy, implications on shadow education, 96–97
- EEOC
  - Asian American and Pacific Islander (AAPI) Work Group, 173
- England, school violence in, 47
- Enrollment, 131
  - high-achieving students, 107–126
  - rate, 77–78, 109
- Equity in academic achievement, 185
- Ethnicity, 137
  - in doctoral education, 158
- Familism, 112
- Family decision-making, and shadow education, 74–75
- Family relationships, impact on high-achieving students apply to college, 107–126
- Fee-paying out-of-school classes, 73–74, 88, 91, 93–94, 97, 98*n*4
- Financial barriers to school access, 50
- Finland, shadow education in, 88
- Frames, 113
- Gansu Survey of Children and Families (GSCF), 50, 51
- Gender equity, 185
- Gender gaps, in student academic achievement, 181–208, 211–218
  - adjusted gender gaps, 202, 205–207
  - mean and variance of test scores, 191–195
  - methods and data, 187–191
  - model estimates, 196–202, 203, 204
  - multilevel-MIMIC models, model fit of, 195–196
  - previous research, 183–186
  - set-up and hypotheses, 186–187
- Gender inequality, 182, 183, 185–187, 192, 195, 208
- Gender status, 184
- Gender stratification, 185
- Generation status, and educational aspirations, 7, 9, 10, 15–18, 25, 28–31, 36*n*10
- Georgia Tech
  - “Jumping on the M train,” 132
- Germany
  - educational aspirations among immigrant students in, 5–36
  - educational systems, features of, 211
  - gender gaps in student academic achievement, 182, 183, 186, 187, 191, 192, 195, 200, 207, 208, 212–215, 217–218
  - shadow education in, 97*n*3
- Gymnasium* degree, 11, 12, 191
- Hauptschule* (vocational schools), 11–13, 19–21, 23, 31, 191
- Heterogeneity among lower-SES students, 121
- High-achieving students apply to college
  - higher-SES students, narratives of interdependence among, 121–124
  - literature review, 110–113
  - lower-SES students, narratives of interdependence among, 116–121

- method of analysis, 114–116
- narratives, 113–114
- social class and family
  - relationships, impact of, 107–126
- High-brow cultural capital, 130, 131, 133–135, 137–138, 141, 143, 145, 147, 148
- Higher-SES students, narratives of interdependence among, 121–124
- High school, highest math course in, 136
- Hispanic serving institutions (HSIs)
  - doctorate education in, 162
- Historically black colleges and universities (HBCUs)
  - doctorate education in, 162
- Home-country cultural capital, 131, 135, 138, 141, 143, 146, 148
- Homeroom teacher system, 43
- Hong Kong, physical victimization in, 55
- Hostility, and doctorate education, 159
- Human capital model, 74–75
- Identity confusion, 159
- Immigrant education, 5–36
- Immigrant generation, 137
- Immigrant incorporation, 130, 135, 147
- Immigrant optimism, 7–11, 18, 22, 27, 28, 30, 32, 33, 35
- Indonesia, shadow education in, 88
- Inequality
  - gender, 182, 183, 185–187, 192, 195, 208
  - in higher education, 166, 170
- Information deficit, 7–9, 22, 27, 28, 30, 32, 33, 35
- Institutional habitus, 111
- Institutional model, 77–78
- Intergenerational attainment process, 6, 8
- Internalizing behavior, 53
- International Socio-Economic Index of Occupational Status (ISEI), 98–99*n*10, 190
- International Standard Classification of Education (ISCED), 98*n*10
- Interpersonal violence, 47
- Israel, school violence in, 42
- Ivy League universities, high-achieving students enrollment in, 108, 109
- Japan
  - doctorate education, 161
  - educational systems, features of, 211
  - gender gaps in student academic achievement, 182, 183, 191, 212, 213, 216–217
  - juku*, 73
  - school violence in, 42
- K-12 education, 171, 172
- Kaplan, 72
- Kardash's Research Self-Efficacy Scale, 164
- Korea
  - doctoral education, 161
  - educational systems, features of, 211
  - gender gaps in student academic achievement, 183, 191, 212, 213, 216–217
  - shadow education in, 75, 91, 98*n*8, 98*n*9
  - see also* South Korea
- Language achievement test, 58
- Language deficiency, 160
- Lawson's Test of Scientific Reasoning, 164
- Liberal arts colleges, high-achieving students enrollment in, 108, 109

- Lower-SES students, narratives of interdependence among, 116–121
- anticipatory family concerns, 118–121
  - heterogeneity, 121
  - immediate and anticipatory family obligations, 117–118
- Malaysia, shadow education in, 88
- Massachusetts Institute of Technology (MIT), 119
- Math course, in high school, 136
- Median odds ratio (MOR), 54–56, 58–59, 64*n*2
- Mental ability
  - and educational attainment, 6
  - and occupational aspiration, 6
- Middle class children, choice and autonomy among, 112
- MIMIC model, 183, 186–191
  - multi-level, 183, 186, 187
  - model fit of, 195–196
  - two-level, 187, 188, 191, 202, 208
- Model minority stereotype of Asians and Pacific Islanders, 155–174
  - analyses, 164–165
  - Asian American students, socialization experiences of, 159, 166–168, 170–171
  - doctoral education, 156–158, 161, 163, 166, 167, 170, 171, 173*n*8
  - extending prior research, 161–162
  - international vs domestic, 159–161
  - limitations, 165–166
  - research productivity, 168–170, 173*n*5
  - socialization, 157–159
  - variables, 163–164, 165, 179
- Monte Carlo error (MCE), 36*n*7
- Multilevel logistic regression analysis (MLRA), of physical victimization, 44, 54, 56–60
- Narrative causality, 114
- Narrative closure, 114
- Narratives of interdependence, 113–114
  - among higher-SES students, 121–124
  - among lower-SES students, 116–121
- National Center for Education Statistics (NCES), 135
- National Educational Panel Study (NEPS), 6, 11, 17, 19, 22, 35*n*1, 36*n*9
- National Education Longitudinal Study (NELS), 135–136, 138, 150*n*8
- National influences of shadow education, 75–78
  - cultural path-dependent model, 75–76
  - economic model, 76–77
  - institutional model, 77–78
- National Research Council
  - Expanding Underrepresented Minority Participation: America's Science and Technology Talent at the Crossroads*, 130
- National Student Loan Data System, 150*n*3
- Nation at Risk*, 74
- New Curriculum (China), 43
  - New Curriculum Reform, 53
- New Zealand
  - school violence in, 42
  - shadow education in, 91
- No Child Left Behind (NCLB) Act, 96
- Nonvictims, profiles of, 55–56
- Norway
  - gender gaps in student academic achievement, 183

- school violence in, 42
- shadow education in, 88
- Occupational aspiration, 6
- Occupational attainment, 6
- One fee system, 49
- Opportunity structures, 11, 15–17
- Organisation for Economic Co-operation and Development (OECD), 78, 187, 207
- Organizational habitus, 111
- Parents, parenting
  - career aspirations of, 23–28
  - educational aspirations of, 23–28
  - among higher-SES families, 125
  - parental education, 98*n*10
- Peer networks, negative influence of, 8
- Peer victimization, 44, 47, 63
- Physical aggression, 42, 44, 45, 62
- Physical victimization, 44, 45, 48, 51–52, 63, 64
  - multilevel logistic regression analysis of, 44, 54, 56–60
  - prevalence of, 55, 56
  - risk factors of, 48, 51, 61
- Positive discipline, 47
- Positive role models, lack of, 8
- Poverty, and victimization, 47–48
- Prejudice, and doctorate education, 159, 172, 179
- Private supplementary tutoring, *see* Shadow education
- Private tutoring, shadow education in, 73, 76, 93, 96, 97, 104–105
- Programme for International Student Assessment (PISA)
  - gender gaps in student academic achievement, 182, 185–187, 190–192, 205, 208, 216, 217
  - immigrant optimism, 9, 35*n*3
  - shadow education, 73, 78, 79, 83–84, 88, 93, 97*n*2, 98*n*3, 99*n*11
- Psychological aggression, 42, 44
- Race, 137
  - in doctoral education, 158, 159
- Rational choice framework of high-achieving students apply to college, 110–113
- Realschule* (comprehensive schools), 11, 12, 20, 21, 23, 191
- Reproduction model, 75
- Research productivity, 168–170, 173*n*5
- Rural China
  - school violence in, 43, 46, 50, 55
  - see also* China
- SAT preparation services, 76
- School climate, 43, 47, 62
- School risk factors, 54
- School tracking, and educational aspirations, 10–11, 35*n*5, 36*n*6
- School violence, in China, 41–65
  - analytic procedure, 51
  - analytic sample, 51
  - analytic strategy, 54–55
  - bullying, 42, 44–46, 63
  - conceptualization of victimization, 44–45
  - hypothesis, 48–49, 60–61
  - implications of, 63–64
  - limitations of, 63
  - measurement, 51–54
  - peer victimization, 44, 47, 63
  - physical victimization, 44, 45, 48, 51–52, 54–61, 63, 64
  - risk factors of, 42, 44–48, 51–54, 61
  - school risk factors, 54
  - social ecological framework, 45–48
  - student risk factors, 52–53

- teachers and classroom risk
  - factors, 53–54, 60–61
- Secondary education or schooling, 7, 10–12, 17, 18, 27, 33, 35, 35*n*5, 186
- Second generation, 130, 131, 137, 148
- Self-efficacy, 184
- Sexual aggression, 44, 63
- Sexual victimization, 44
- Shadow education, 71–99, 102–105
  - academic achievement and prevalence, relationship between, 88–91, 103
  - analytical strategies, 84, 88
  - country-level variables, 79–84
  - educational policy, implications for, 96–97
  - family decision-making and, 74–75
  - future research, directions for, 97
  - methods, 78–79
  - multilevel regression results, 91–93
  - national influences on, 75–78
  - prevalence of, 72, 88–91, 102
  - student-level variables, 84, 85–87
  - theories and prior research, 74
- Shanghai-China, shadow education in, 79, 84, 88
- Singapore, shadow education in, 98*n*7
- Social capital, 8
- Social class, impact on high-achieving students apply to college, 107–126
- Social competition, 43
- Social ecological framework of student victimization, 45–48
  - contextual perspectives on school violence, 46–48
  - individual risk factors of student victimization, 45–46
- Social exclusion, 44, 63
- Socialization
  - defined, 157–158
  - experiences, of Asian American students, 159
  - process of doctoral education, 158–159
- Social stratification
  - impact on high-achieving students apply to college, 108, 126
  - system, 33
- Socioeconomic status (SES)
  - and educational aspirations, 18–19, 22
  - and educational attainment, 6
  - narratives of interdependence among high-achieving students apply to college, 116–124
  - and occupational aspiration, 6
  - and shadow education, 74, 77, 84, 88, 91, 93–95, 97*n*2, 98*n*3, 98*n*4
- South Korea
  - gender gaps in student academic achievement, 182
  - hagwon*, 73
  - see also* Korea
- STEM (science, technology, math and engineering), 129–150, 156, 166, 171
  - bachelor's degree, completion of, 137
  - initial college major in, 137
- Student risk factors, 52–53
- Student–teacher closeness, 47
- Survey of Earned Doctorates, 165–166
- Survey of Graduate Students and Postdoctorates in Science and Engineering, 166
- Sweden
  - gender gaps in student academic achievement, 183
- Taipei, shadow education in, 91, 98*n*6, 98*n*7
- Taiwan
  - educational systems, features of, 211

- gender gaps in student academic achievement, 182, 183, 186, 191, 192, 195, 200, 212–217
- physical victimization, 55
- Teachers
  - evaluation, 43
  - rankings, 43
  - risk factors associated with, 53–54, 60–61
- Tertiary education, 40
- Third International Mathematics and Science Study (TIMSS), 42, 72, 73, 97*n*1, 185
- Tracking system in schools, and educational aspirations, 10–11, 35*n*5, 36*n*6
- Tunisia, shadow education in, 79, 84, 88
- Turkey
  - educational aspirations among immigrant students in, 8
  - school violence in, 42
- UC Berkeley, 120
- UCLA, 120
- United Arab Emirates, shadow education in, 98*n*7
- United States (US, USA)
  - Asians and Pacific Islanders, 156
  - Department of Commerce
    - ““STEM: Good Jobs Now and for the Future,””, 149
  - doctoral education, 160, 172
  - educational aspirations among immigrant students in, 6
  - educational systems, features of, 211
- gender gaps in student academic achievement, 182, 183, 191, 200, 208, 212, 213, 217–218
- Kumon*, 73
- No Child Left Behind Act, 96
- school violence in, 42, 47
- shadow education in, 76, 96
- University of California (UC)
  - high-achieving students enrollment, 109
- University of Wisconsin-Madison
  - Social Science Computing Cooperative, 36*n*8
- Verbal victimization
  - direct, 44
  - indirect, 44
- Victimization
  - bullying, 42, 44–46, 63
  - conceptualization of, 44–45
  - peer, 44, 47, 63
  - physical, 44, 45, 48, 51–52, 54–61, 63, 64
  - risk factors of, 42, 44–48, 51, 61
  - sexual, 44
  - verbal, 44
- Victims, profiles of, 55–56
- Viet Nam, shadow education in, 88
- Violence, *see* School violence, in China
- Wisconsin model of status attainment, 6
- Working class families, interactions in, 112
- Youth Self Report, 53