

### Evidence of Unconscious Bias in Academic Settings

- **CVs** Even psychologists are more likely to hire a male job applicant than a female job applicant with an identical record. Steinpres et al. (1999) presented 238 psychologists with CVs from actual scientists; only the names were changed. Female tenure candidates were four times as likely to receive cautionary comments such as “we would have to see her job talk” and “I would need to see evidence that she had gotten these grants and publications on her own.”
- **Letters** A study of over 300 recommendation letters for successful medical faculty applicants found that letters for females were shorter, placed less emphasis on research, more emphasis on teaching, contained more “grindstone adjectives” such as “hardworking” and “diligent,” contained twice as many doubt-raisers, and were less likely to include stand-out adjectives such as “brilliant” and “superb” (Trix & Psenka, 2003).
- **Publications** A study of postdoctoral fellowships awarded in Sweden found that peer reviewers gave female applicants lower scores than male applicants who displayed the same level of scientific productivity (Wenneras and Wold, 1997).
- **Funding Success** Analysis of 128 applicants for a prestigious grant in Europe found that differences in male and female success rates depended on the discipline. Gender disparities were especially pronounced in Biology and the Earth Sciences (Brouns, 2000). During 2001-2003 female applicants for NIH grants received only 63% of the funding that male applicants received (RAND, 2005).
- **Salaries** Recent data indicate there is still a statistically significant differential (2.9% - 8.4%) in starting salaries for men and women faculty with comparable experience and rank (Toumanoff, 2005). Studies also show that salaries for women don’t progress as quickly as salaries for men (Valian, 2005).
- **Small Numbers** Research has shown that women and minorities are judged more fairly when they are at least 30% of the applicant pool (Sackett et al., 1991; Heilman, 1980).

### Other Research Findings

#### *Gender*

- Success is more frequently attributed to “skill” for males and “luck” for females, even when the evaluators are presented with evidence of equal success for both genders (Deaux & Emswiller, 1974).
- A 2000 study of symphony orchestras found that “blind” auditions increase the chance that a woman will be hired or promoted; researchers maintain that blind audition procedures alone accounted for 1/3 of the increase in the proportion of women musicians hired into top-tier American symphonies (Goldin and Rouse).
- Evaluators who are busy, distracted, or under time pressure give women lower ratings than men for the same written evaluations of performance (Martell, 1991). In such circumstances, evaluators are more likely to rely on stereotypes.

#### *Race / Ethnicity*

- A significant racial gap has been identified in the rate of callbacks for interviews; when resumes have traditionally white names they elicit 50% more callbacks than when they have black names (Bertrand and Mullainathan, 2002).
- A 2000 study found that evaluators of candidates with ambiguous qualifications (i.e., unclear as to whether qualified or not) indicated stronger support for white applicants than for equally qualified African American applicants (Dovidio and Gaertner, 2000).

## References

- Bertrand, M. and S. Mullainathan. (2002). Are Emily and Brendan more employable than Lakisha and Jamal?: A field experiment on labor market discrimination. Available online at: <http://gsb.uchicago.edu/pdf/bertrand.pdf> .
- Brouns, M. (2000). The gendered nature of assessment procedures in scientific research funding: The dutch case." *Higher Education in Europe*, 25, (2), 193-199.
- Deaux, K. and Emswiller, T. (1974). Explanations for successful performance on sex-linked tasks: What is skill for the male is luck for the female. *Journal of Personality and Social Psychology*, 29, 80-85.
- Dovidio, J.F. and Gaertner, S.L. (2000). Aversive racism in selection decisions: 1989 and 1999. *Psychological Science*, 11, 315-319.
- Goldin, C., and Rouse, C. (2000). Orchestrating impartiality: The impact of 'blind' auditions on female musicians." *American Economic Review* 90, (4), 715-741.
- Heilman, M. E. (1980). The impact of situational factors on personnel decisions concerning women: Varying the sex composition of the applicant pool. *Organizational Behavior and Human Performance*, 26, 286-295.
- Martell, R. F. (1991). Sex bias at work: The affects of attentional and memory demands on performance ratings for men and women. *Journal of Applied Social Psychology*, 21, 1936-1960.
- RAND Corporation. (2005). Gender differences in major federal external grant programs. Available online at: <http://www.rand.org/publications/TR/TR307/index.html>
- Sackett, P. R., DuBois, C. L., Cathy, L., & Noe, A. W. (1991). Tokenism in performance evaluation: The effects of work group representation on male-female and white-black differences in performance ratings. *Journal of Applied Psychology*, 76, 263-267.
- Steinpreis, R.E., Anders, K.A., and Ritzke, D. (1999). The impact of gender on the review of the curricula vitae of job applicants, *Sex Roles*, 41, 509-528.
- Toumanoff, Peter. (2005). The effect of gender on salary-at-hire in the academic labor market. *Economics of Education Review*, 24, (2), 179-188.
- Trix, F. and Psenka, C. (2003). Exploring the color of glass: letters of recommendation for female and male medical faculty. *Discourse & Society*, 14, 191-220.
- Valian, V. (2005). Sex Disparities in Advancement and Income. Available online at: <http://www.hunter.cuny.edu/genderequity/equityMaterials/numbers.pdf>
- Wenneras, C. and Wold, A. (1997). Nepotism and sexism in peer review. *Nature*, 387, 341-343.

## Other Recommended Reading

- Freedman, S.M. & Phillips, J.S. (1988). The changing nature of research on women at work. *Journal of Management*, 14, 231-251.
- Gladwell, M. (2005). *Blink: The Power of Thinking Without Thinking*. New York / Boston: Little, Brown.
- Heilman, M. E. (1980). The impact of situational factors on personnel decisions concerning women: Varying the sex composition of the applicant pool. *Organizational Behavior and Human Performance*, 26, 286-295.
- Major, B. (1994). From social inequality to personal entitlement: The role of social comparisons, legitimacy appraisals, and group memberships. *Advances in Experimental Social Psychology*, 26, 293-355.
- Sackett, P. R., DuBois, C. L., Cathy, L., & Noe, A. W. (1991). Tokenism in performance evaluation: The effects of work group representation on male-female and white-black differences in performance ratings. *Journal of Applied Psychology*, 76, 263-267.
- Valian, V. (1998). *Why So Slow? The Advancement of Women*. Boston, MA: MIT Press.