



Temporal effects of diversity faultlines and social categories in training groups

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Diversity

- Is diversity good or bad for organizations?
 - “Diversity refers to differences between individuals on any attribute that may lead to the perception that another person is different from self” (van Knippenberg, De Dreu, & Homan, 2004, p. 1011).
 - Diversity becomes more important as more organisations employ more heterogeneous individuals, e. g.:
 - Demographic change (age)
 - International mobility (ethnicity)
 - Gender equality



A test case for the impact of diversity

- *Background*

- DEOMI's flagship course entails weeks spent in highly diverse small groups exploring diversity and discrimination.
- This experience is taxing both affectively and cognitively
- The groups are geared toward achieving behavioral change in students.

- *Research Question*

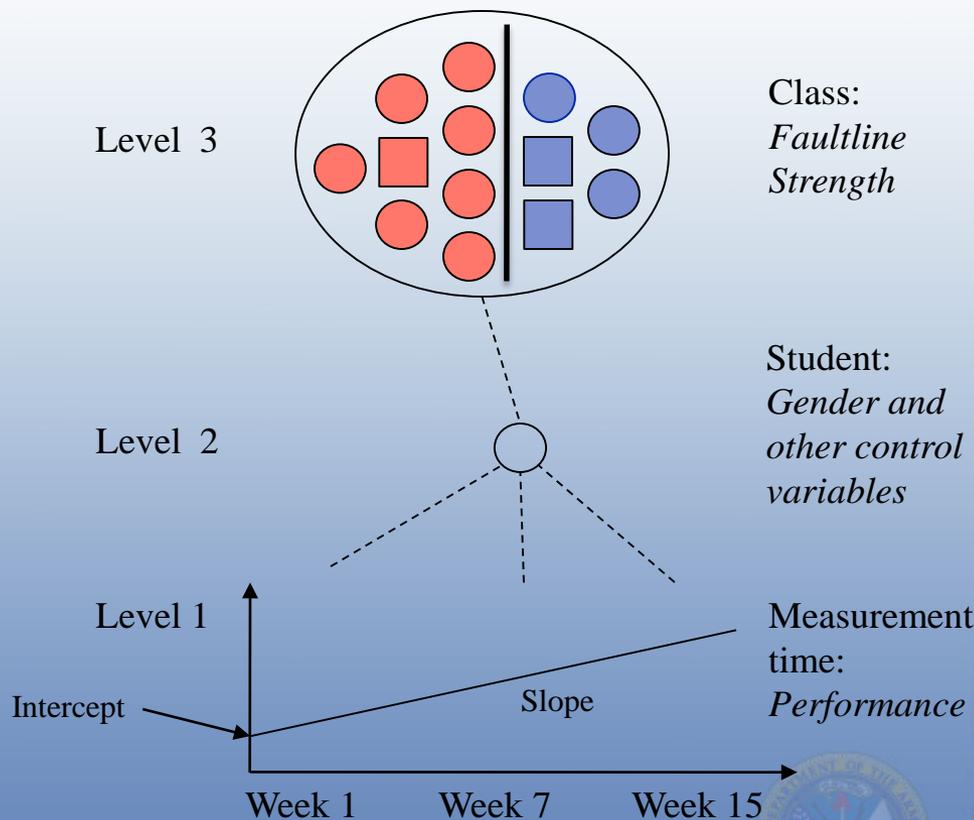
- We were interested in finding out whether diversity within training groups as well as perceived similarities between trainers and group members affected students' behavioral change



Faultlines over time: Can stronger faultlines lead to more positive outcomes over time than weaker ones?

- Diversity faultlines could lead to problematic effects at the beginning, but could foster team learning over time (e.g., Brodbek & Greitemeyer, 2000)
- Test of this assumption in 84 diverse military training groups (N = 1133, 13.1 trainees per group) where learning was measured over time
- Sample was diverse with regard to race (32 Asian, 578 Black, 114 Hispanic, 13 Native American, 345 White), gender (721 male, 368 female), and other attributes
- Focal area of training: Behavioral change associated with challenging interactions brought about by group diversity – Assessments of students’ behaviors associated with course objectives: Ratings (0-100) at three equally spaced time points by three raters (the two trainers and one outside assessor) on five scales
- Faultline strength F_{au} (Thatcher, Jehn, & Zanutto, 2003) computed over available social categories

A three-level growth model of the impact of faultlines on training performance over time



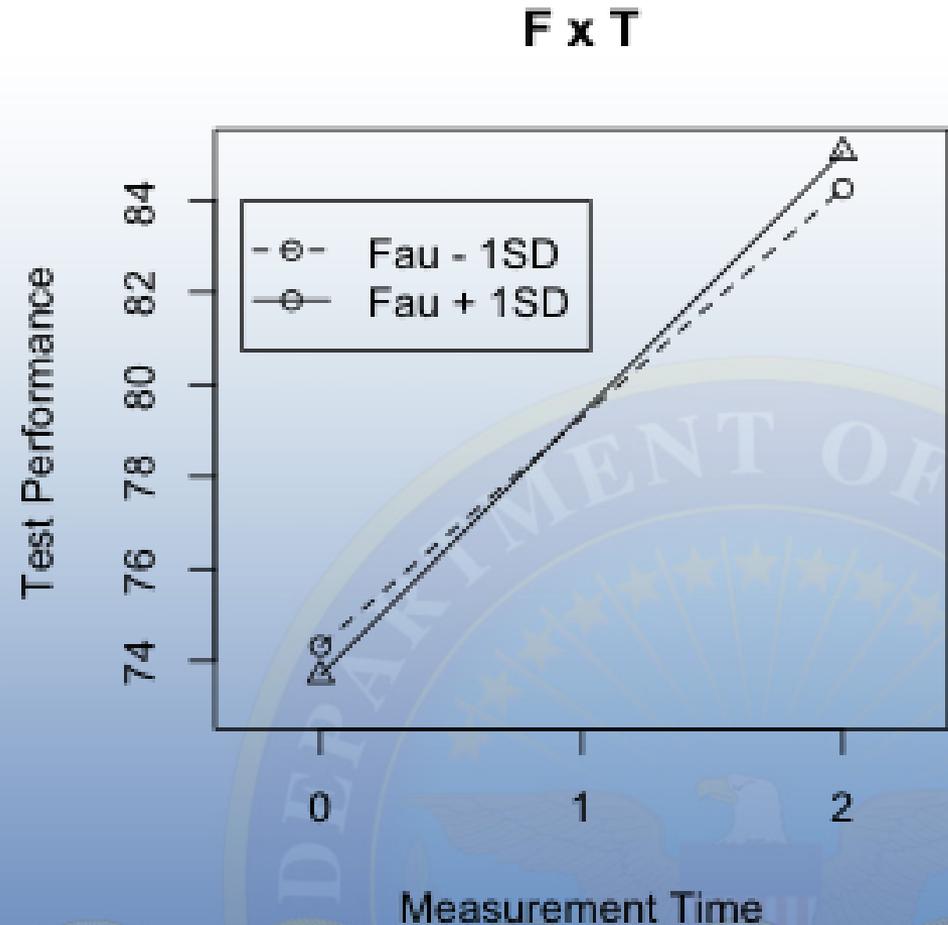
– Hypothesis: Strong faultlines are associated with a lower intercept and a higher slope in test performance than weak faultlines

– ICC(1) of test scores in classes = .09, $p < 0.001$, ICC(2) = 0.79: Multilevel modeling warranted



The proposed effect

- *Analysis*
 - Random Coefficient Growth Modeling in R (Bliese, 2009) shows that...
 - Students' similarity to trainers only impacted students' learning initially
 - Faultines (i.e., group diversity) has a positive impact on student learning over time



Implications

- Salient team diversity (faultlines) can have negative short-term effects but positive long-term effects
- Diverse teams may require time to attain their optimal level of functioning.

