Situation-Behavior Profiles as a Locus of Consistency in Personality

Walter Mischel, Yuichi Shoda, and Rodolfo Mendoza-Denton

Abstract
Traditional approaches have long considered situations as "noise" or "error" that obscures the consistency of personality and its invariance. Therefore, it has been customary to average the individual's behavior on any given dimension (e.g., conscientiousness) across different situations. Contradicting this assumption and practice, recent studies have demonstrated that by incorporating the situation into the search for consistency, a new locus of stability is found. Namely, people are characterized not only by stable individual differences in their overall levels of behavior, but also by distinctive and stable patterns of situation-behavior relations (e.g., she does X when A but Y when B). These...
EVIDENCE FOR THE CONTEXTUALIZED IF...THEN...EXPRESSION OF PERSONALITY INVARIANCE

Figure 1 shows behavioral data that are typical of those found for any two individuals in a given domain of behavior across many different situations. In traditional conceptions, the variability in an individual’s behavior across situations (the ups and downs along the y-axis) is seen as unwanted, uninformative variance reflecting either situational influences or measurement error. In dealing with this variability, the most widely accepted approach has been to aggregate the individual’s behavior on a given dimension across many situations to arrive at the person’s “true score.” The average summary score that results allows one to ask whether individuals are different in their overall level of a disposition, and is useful for many purposes—yet it may conceal potentially valuable information about where and when individuals differ in their unique patterns of behavior. If these patterns of situation-behavior relations are indeed stable and meaningful, rather than just measurement error, they may be thought of as “if...then...” (if situation A, then the person does X, but if situation B, then the person does Y) “signatures” that contain clues about the underlying personality system that produces them.

In a study testing for the stability and meaningfulness of such situation-behavior profiles, the behavior of children was observed in vivo over the course of a summer within a residential camp setting (Shoda, Mischel, & Wright, 1994). The data collection yielded an extensive archival database that allowed systematic analyses of coherence in behavior as it unfolded across naturalistic situations and over many occasions, under unusually well-controlled research conditions that ensured the reliability and density of measurement.

In selecting situations for the analysis, it was important to move beyond the nominal situations specific to any given setting (such as the woodworking room, dining hall, or playground) that would necessarily be of limited generalizability and usefulness outside the specific setting. Rather, the relevant psychological features of situations—the “active ingredients” that exert a significant impact on the behavior of the person and that cut across nominal settings—were identified. Within this camp setting, five types of psychological situations that could be objectively recorded emerged: three negative situations (“teased, provoked, or threatened by peer,” “warned by adult,” and “punished by adult”) and two positive situations (“praised by adult” and “approached socially by peer”). The children’s social behavior (e.g., verbal aggression, with-
drawal, friendly behavior, prosocial behavior) was unobtrusively observed and recorded as it occurred in relation to each of the selected interpersonal situations, with an average of 167 hr of observation per child over the course of the 6-week camp.

With this unusually extensive data archive, it was possible to assess the stability of the hypothesized situation-behavior relationships for each person. Figure 2 shows illustrative profiles for two children's verbally aggressive behavior across the five types of situations. The frequencies of behavior were first standardized, so that the remaining intraindividual variance in the profiles reflects behavior above and beyond what would be normally expected in the situation indicated—and is thus attributable to the individual's distinctive personal qualities. The two lines within each panel indicate the profiles based on two separate, nonoverlapping samples of situations.

As the figure shows, compared with the other children at the camp, Child 9 showed a distinctly higher level of verbal aggression when warned by adults, but a lower-than-average level when approached positively by a peer. In contrast, Child 28 displayed higher levels of verbal aggression in comparison with others when approached positively by a peer, not when warned by an adult. In contrast to the prediction that intraindividual variability in behavior across situations reflects noise and should thus have an average stability of zero, the results provided strong evidence that participants' if...then... profiles were both distinctive and stable.

THE PERSONALITY PARADOX RECONSIDERED

Further analyses tested the hypothesis that individuals' self-perceptions of consistency are related to the stability of their situation-behavior profiles (Mischel & Shoda, 1995). These analyses utilized data from a field study in which college students were repeatedly observed on campus in various situations relevant to their conscientiousness in the college setting (Mischel & Peake, 1982). The results revealed that students who perceived themselves as consistent did not show greater overall cross-situational consistency than those who did not. However, the average correlation for situation-behavior profile stability was near .5 for individuals who perceived themselves as consistent, whereas it was trivial for those who viewed themselves as inconsistent. It is the stability in the situation-behavior profile and not the cross-situational consistency of behavior that seems to be related to the perception of consistency.

The intuition of consistency, then, seems to be neither paradoxic nor illusory. It is in fact based on a different type of behavioral

---

Fig. 2. Illustrative if...then... signatures of verbal aggression in relation to five situations in two time samples, T1 and T2 (solid and dotted lines). Data for two children are shown in standardized scores (Z) relative to the normative levels of verbal aggression in each situation. The profile stability coefficients for the children are shown above the graphs. Reprinted by permission from Mischel and Shoda (1995, Fig. 2, p. 249).
consistency than has been sought for so many years. Cross-situational variability seems to be an essential expression of the enduring but dynamic personality system itself and its stable underlying organization. Given such findings, the need arose for a conception of personality that could generate—and allow one to predict and understand—not only the overall average differences between people, but also their stable and unique patterns of intra-individual variability.

**TOWARD A DYNAMIC CONCEPTION OF PERSONALITY**

To address this need, psychologists are beginning to reconceptualize personality not as a mere collection of attributes, but as a coherent organization of mental-emotional representations interacting within a network of relationships and constraints (e.g., Hinton, McClelland, & Rumelhart, 1986). This type of model, familiar in cognitive science, provides a framework for conceptualizing an organized personality processing system that is sensitive to different features of situations and can respond discriminatively to them in characteristic and stable ways.

Cognitive-affective personality system (CAPS) theory (Mischel & Shoda, 1995) represents one instantiation of how such a processing system might function. Within this framework, the stable units of personality consist of mental representations whose activation or inhibition leads to the behaviors displayed. At a molar level of analysis, these mental representations, or cognitive-affective units (CAUs), include the individual’s construals, goals, expectations, beliefs, and affects, as well as self-regulatory standards, competencies, plans, and strategies. Each individual is characterized by a relatively stable activation network among the units within the system, reflecting the culture and subculture (Mendoza-Denton, Shoda, Ayduk, & Mischel, 1999), as well as the individual’s social learning history, genetic endowment, and biological history (e.g., temperament).

Individual differences in this model arise not only from differences in the chronic accessibility of CAUs, but also from the distinctive organization of interrelationships among them within each person. As the individual moves across situations that contain different psychological features, different mediating units and their characteristic interrelationships become activated. When the if's posed by the situation change, so do the then's generated by the personality system, but the if . . . then . . . relationships remain the same, reflecting the stable organization of CAUs distinctive for that individual. Computer simulations drawing from such a conceptualization of personality have demonstrated that the CAPS model can account for both inter-individual differences in mean levels of behavior and stable intra-individual variability of behavior across psychological situations (Mischel & Shoda, 1995).

**FROM IDIOGRAPHIC TO NOMOTHETIC ASSESSMENT OF PROCESSING DISPOSITIONS**

In CAPS theory, a personality type consists of people who share a common organization of relations among mediating units in the processing of certain situational features—a common network of interrelated CAUs. The kinds of assessment tools needed to study such personality types can range from situation-specific questionnaires (e.g., Chiu, Hong, Mischel, & Shoda, 1995) to rigorously monitored daily diary studies (e.g., Ayduk, Downey, Testa, Yen, & Shoda, 1999), to experimental studies of the impact of various situational triggers on the individual’s behavior (e.g., Shoda & Tiernan, in press). Such assessments can be undertaken through either a top-down or a bottom-up approach. In top-down approaches, the researcher begins with a theory of the internal processing dynamics that may characterize a type, and then hypothesizes the distinctive if . . . then . . . profile for that type, as well as the psychological triggers that define the profile (e.g., Downey & Feldman, 1996; Morf & Rhodewalt, 2001). Bottom-up approaches, by contrast, take advantage of recent advances in statistical techniques to extract person classes, behavior classes, and situation classes from people’s responses to standardized inventories (Vansteelandt & Van Mechelen, 1998).

Such research programs are steps toward building a personality typology that takes account of both the situation and the characteristic organization of the underlying system that distinguishes each type. The CAPS model provides a framework for outlining the particular networks that distinctively characterize different individuals and personality types. From such an approach to typologies, psychologists may be able ultimately to meet a central goal in personality assessment articulated years ago (Mischel, 1968): to make specific predictions about how certain subtypes of individuals are likely to think, feel, and behave in certain kinds of situations.

**Recommended Reading**

Gender and Group Process: A Developmental Perspective
Eleanor E. Maccoby

Department of Psychology, Stanford University, Stanford, California

Abstract
Until recently, the study of gender development has focused mainly on sex typing as an attribute of the individual. Although this perspective continues to be enlightening, recent work has focused increasingly on children’s tendency to segregate in same-sex groups. This self-segregation of the two sexes implies that much of childhood gender enactment occurs in the context of same-sex dyads or larger groups. There are emergent properties of such groups, so that certain sex-distinctive qualities occur at the level of the group rather than at the level of the individual. There is increasing research interest in the distinctive nature of the group structures, activities, and interactions that typify all-male as compared with all-female groups, and in the socialization that occurs within these groups. Next steps in research will surely call for the integration of the individual and group perspectives.

Keywords
sex; gender; groups; socialization

Among researchers who study the psychology of gender, a central viewpoint has always been that individuals progressively acquire a set of behaviors, interests, personality traits, and cognitive biases that are more typical of their own sex than of the other sex. And the individual’s sense of being either a male or a female person (gender identity) is thought to be a core element in the developing sense of self. The acquisition of these sex-distinctive characteristics has been called sex typing, and much research has focused on how and why the processes of sex typing occur. A favorite strategy has been to examine differences among individuals in how sex typed they are at a given age, searching for factors associated with a person’s becoming more or less “masculine” or more or less “feminine” than other individuals. In early work, there was a heavy emphasis on the fami-