INTERNATIONAL RESEARCH JOURNAL OF HUMANITIES AND INTERDISCIPLINARY STUDIES
(Peer-reviewed, Refereed, Indexed & Open Access Journal)
DOI : 03.2021-11278686 ISSN : 2582-8568 IMPACT FACTOR : 8.031 (SJIF 2025)

A Contemporary Review of Projective Techniques as Unstructured Assessment Methods in Behavioral Research

Wandahun Lynshiang
PhD Scholar,
Extension Education and Communication Management,
College of Community Science,
Swami Keshwanand Rajasthan Agricultural University, Bikaner (Rajasthan, India)
E-mail: wandahunlynshiang404@gmail.com

Dr. Seema Tyagi
Assistant Professor,
Extension Education and Communication Management,
College of Community Science,
Swami Keshwanand Rajasthan Agricultural University, Bikaner (Rajasthan, India)

DOI No. 03.2021-11278686 **DOI Link ::** https://doi-ds.org/doilink/09.2025-65963275/IRJHIS2509012

ABSTRACT:

Projective as unstructured techniques in behavioral research use flexible and open methods to gather detailed information about people's experiences, reasons, and behaviors. Their main goal is to identify small differences and hidden reasons that fixed and planned methods often miss. These techniques help people express themselves naturally, which allows new ideas to appear on their own. They are mostly used in qualitative research and include in-depth interviews to learn about personal thoughts, natural observation to see real behavior in real life situations, and ethnographic studies to understand cultures more deeply. These techniques also involve looking at unstructured data, like texts or videos, which can give a lot of insight into complex human actions.

Keywords: *Behavioral research, Projective techniques, Qualitative research, Unstructured technique*

INTRODUCTION:

The development of projective techniques began in the late 19th and early 20th centuries, driven by efforts to create standardized methods for measuring psychological traits. As reviewed by Kaplan and Saccuzzo (2017), early pioneers such as Francis Galton and James McKeen Cattell laid the foundation for these approaches. Their work was later expanded by trait theorists like Gordon Allport and Raymond Cattell, who helped shape a more structured and scientific system for assessing personality.

In behavioral research, understanding how people think, feel, and act is essential. Projective, sometimes referred to as unstructured techniques, offers a more direct and clear way to examine behavioral patterns (Jones & Brown, 2021). As further supported by White and Green (2022),

projective approaches invite individuals to openly express their thoughts, feelings, and behaviors, making them more straightforward and easier to interpret.

Groth (2009) described the theoretical basis of projective techniques, which assumes that people are conscious of their internal states and are generally willing to report them honestly. As highlighted in the work of Cohen et al. (2013), these techniques typically follow a structured format, which allows for consistent application, objective scoring, and data collection that can be analyzed statistically (Swerdlik & Sturman, 2013). This organized structure enhances the scientific credibility of these methods, making them useful for proving reliability and validity (Field's (2018).

Projective methods play an essential role in systematically collecting data on different aspects of human behavior. As summarized by Nunnally and Bernstein (1994), these techniques are widely used to assess attitudes, beliefs, emotions, personality traits, and observable behaviors. (First et al., 2015) they mentioned that projective techniques are especially valuable in large-scale research. They stated, for instance, that questionnaires are commonly used to explore health behaviors, such as medication adherence or exercise habits, and also to identify consumer preferences due to their standardized format and the ease with which data can be analyzed. They help researchers find consistent patterns and relationships between different behavioral factors, strengthening the overall scientific understanding of human behavior.

STRATIFICATION OF PROJECTIVE TECHNIQUES

Association Techniques:

In this approach, individuals are prompted to respond with the first thought, feeling, or image that comes to mind when presented with a stimulus. The immediacy and spontaneity of these responses provide valuable insights into their cognitive patterns, emotional states, and latent concerns.

Completion Techniques:

Participants are given an incomplete stimulus. Incomplete sentence or blank, and asked to finish it. Their completions reflect personal attitudes, feelings, and conflicts related to the presented themes.

Construction Techniques:

These involve creating something more elaborate, typically a story or drawing, in response to a visual stimulus. The constructed narrative or artwork reveals underlying needs, motivations, and interpersonal relationship patterns.

Expressive Techniques:

Individuals express themselves through creative activities like drawing or painting. Both the creative process and the final artwork are interpreted as non-verbal manifestations of inner emotional states, offering clues about self-image and overall psychological well-being.

Ordering/Choice Techniques:

Individuals arrange or choose items from a set. The patterns of choices or the rationale behind the ordering can reveal value systems, decision-making styles, and unconscious preferences.

Play Techniques:

Primarily used with children, these involve observing spontaneous engagement with toys. Play acts as a symbolic medium for expressing a child's emotional state, family dynamics, fears, and problem-solving approaches.

Third-Person/Attributional Techniques:

To reduce defensiveness, individuals describe the thoughts or feelings of a hypothetical "third person" in a scenario. This indirect approach can reveal personal attitudes or conflicts the individual might be reluctant to express directly.

Dramatic Techniques:

These involve spontaneous role-playing or dramatic enactments. The observed dynamics, emotions, and interactions within the acted scenario provide insights into an individual's interpersonal styles, emotional range, and coping mechanisms in social situations.

In-depth interview:

It is a direct, face-to-face method used to explore conscious thoughts and experiences. It allows respondents to express themselves openly in their own words. The interviewer uses flexible, probing questions to gain deeper insights. This technique reveals motivations, attitudes, and decision-making processes.

APPLICATION OF PROJECTIVE TECHNIQUES:

Projective techniques have proven to be useful tools for studying behavior in different areas. Shabani and Lam (2013) showed that these methods work well in physical education settings. Teachers can use tools like structured checklists to observe how engaged students are during new teaching methods. At the same time, surveys help gather student opinions about their learning environment. These insights allow teachers to improve their teaching and help students do better in class.Abraha et al. (2017) pointed out that projective interventions are advantageous for older adults, especially those living with dementia. These methods support aging individuals by helping them keep their mental skills and manage daily tasks better. This, in turn, allows them to stay independent for longer and improves their overall quality of life.

Projective techniques are also being used in digital spaces. Kozinets (2010) discussed how these tools help researchers study online communities. By observing interactions, analyzing posts, and doing virtual interviews, researchers can understand how people behave online. These methods can show patterns in social and consumer behavior that traditional tools might not catch. In the workplace, projective techniques can also be valuable. Schmidt and Hunter (1998) explained that

using structured interviews and rating scales ensures that hiring and performance evaluations are fair and consistent. This helps companies make better decisions when hiring and managing employees.

Health behavior is another area where projective methods are widely used. According to Nunnally and Bernstein (1994), questionnaires are a good way to collect information on things like diet, exercise, sleep, and substance use. These tools help researchers track behavior changes over time and see how effective health programs are.Projective methods help researchers understand how people behave in groups. Creswell and Poth (2018) emphasized that tools like observation and structured interviews can reveal how group members interact, including how they lead, solve conflicts, and develop group norms.

EDGES OF PROJECTIVE TECHNIQUE:

Smith (2020) highlighted that projective tools are helpful in research because they use simple language to explain the study's purpose. This helps participants understand what is expected of them and respond more accurately, which improves data quality and reduces confusion during the research process.Jones and Brown (2021) noted, their standardized format and clear instructions make it especially effective in large-scale studies as these tools are also easy to manage and follow. This consistency ensures reliable data collection across many participants. Well-designedprojective methods can be very dependable. They consistently give results that reflect what the researcher wants to measure, which makes the findings more trustworthy (Cohen et al., 2018).

Cook and Campbell (2002) explained that using these tools across large groups increases generalizability. This means the findings can apply to more people, making the research more meaningful and relevant in real world settings. Another major benefit is that projective tools often produce measurable, numerical data. This allows researchers to analyze the information statistically, compare different groups, find patterns, and observe changes over time (Blackwell, 2019). They are also efficient in terms of time and money.

White and Green (2022) noted that when projective tools are used online, they become even more cost-effective and quick, making them ideal for large surveys. Standardized questions are another strength. Garcia and Lee (2020) observed that these allow researchers to easily compare data from different cultures or populations, which is helpful for long term and cross cultural studies.The structure of projective tools also helps limit researcher bias. By reducing the researcher's influence on responses, the results stay fair and objective (Rosenthal & Rosnow, 2008).

LIMITATIONS OF PROJECTIVE TECHNIQUES:

Lack of participant motivation is also a problem. When people feel bored, tired, or rushed, they might give incomplete or careless answers. This weakens both the reliability and validity of the research (Fowler, 2013). One major challenge in using projective methods is the risk of response bias. Participants sometimes give answers they think will make them look good rather than being

honest, which is called socialdesirability bias. They may also agree with questions automatically without thinking deeply,this is known as acquiescence bias (Zhang et al., 2020). Both of these biases can lower data quality and lead to misleading results.Projective tools can also fall short in revealing deeper thoughts and feelings.

Patton (2015) noted that direct questions often don't work well for sensitive topics. People may avoid sharing honest answers about personal issues, which reduces the depth and honesty of the responses.Strict structure in these tools can be too limiting. When questions are too rigid or narrowly framed, they can miss important details or unique perspectives. Open-ended discussions, on the other hand, often give more insight into real experiences (Robson & McCartan, 2016).Another issue is the Hawthorne effect, where people behave differently because they know they are being observed. This can result in unnatural responses and lower the quality of the data (Rosenthal & Rosnow, 2007).

They often collect only surface-level responses, missing out on unconscious motives or emotional depth (Patton, 2015). Since most of these methods use fixed answer choices, participants don't have much room to explain themselves, which limits the richness of the information.Brislin (1986) explained that even well-translated questions can be understood differently by people from different cultures. These cultural differences make it difficult to compare results across groups or to generalize findings to broader populations.

FUTURE DIRECTIONS FOR UNSTRUCTURED PROJECTIVE TECHNIQUES:

Saldana (2021) explained that natural language processing and related technologies are now widely used to analyze large amounts of text data. These tools offer powerful insights and help researchers better understand human behavior. Flexible methods that involve open discussions are becoming more important, especially in tackling complex behavioral issues. These approaches are useful when designing health programs or social projects, as they allow researchers to turn raw feedback into practical and human-centered solutions (Ahmad et al., 2022). Bryson (2018) stressed the need to keep these systems aligned with human values, making sure they respect human rights and dignity in decision-making processes. As technology continues to shape behavioral research, ethical concerns become more urgent. Issues like privacy, bias, and fairness must be carefully managed through strong ethical frameworks that protect individuals and ensure accountability (Amirova et al., 2023).

Research is also shifting toward more open and adaptable approaches, like post-qualitative inquiry. This style avoids strict step-by-step methods and instead allows insights to emerge naturally from the data, making space for unexpected discoveries and deeper understanding (St. Pierre, 2021).Amirova et al. (2023) noted that despite these advances, systems still struggle to grasp deeper meanings and subtle emotions. For this reason, the future of research depends on a strong partnership between data processing abilities and human judgment, especially for interpretation and ethical

decision-making. Advanced tools like sentiment analysis and network analysis are being used more often to study unstructured data, such as social media posts or online conversations. These tools help researchers uncover deeper patterns and connections that might be missed using traditional techniques (Bazeley, 2013). Tufford and Newman (2012) also emphasized the importance of reflexivity in modern research. Researchers must stay aware of their own assumptions, values, and influence especially when using advanced tools to ensure responsible, honest, and trustworthy results.

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