Scientific and Social Research, 2026, Volume 8, Issue 10
https://bbwpublisher.com/journal/SSR
Online ISSN: 2981-9946
Print ISSN: 2661-4332

A Study on the Mechanisms Underlying Professional Sports Fan Identity, Typological Differentiation, and Consumption Behavior

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Abstract: This study examines the mechanisms that shape professional sports fan identity, the typological distinctions that separate fan groups, and the ways these identities influence consumption behavior. The central problem is that fan identity is often treated as a single attitude, while actual supporter communities display different emotional attachments, symbolic commitments, and behavioral routines. The research therefore develops an integrated account of identity formation, classifies fans according to meaningful patterns of attachment and involvement, and tests how these patterns relate to consumption choices. A survey-based quantitative design is used. Data are collected from professional sports spectators, and the measures cover emotional attachment, symbolic identification, social belonging, ritual participation, and consumption activity. Typological analysis identifies distinct fan profiles based on combinations of these dimensions. The analysis then compares the profiles across attendance, merchandise purchase, media use, and event-related spending. The findings show that fan identity is multidimensional and that its emotional, symbolic, social, and ritual components do not operate identically. Typological differentiation reveals stable groupings that vary in intensity, loyalty style, and social display. Consumption behavior follows these groupings rather than a simple high-low fan divide. The analysis further interprets identity expression and social validation as the pathways through which attachment is converted into consumption. The results contribute a mechanism-based explanation of fan behavior and offer practical guidance for league managers, clubs, and marketers who seek to understand supporter segments without reducing fans to a single category. The conclusion discusses theoretical implications, methodological limits, and directions for future research.

Keywords: Fan identity; Typology; Consumption behavior; Professional sports

Online publication: November 25, 2026

1. Introduction

1.1. Research background and problem statement

Professional sports fandom constitutes a significant social and commercial phenomenon, yet scholarly and

managerial approaches frequently treat fan identity as a unitary construct. In practice, supporters differ markedly in emotional intensity, symbolic attachment, social belonging, and behavioral commitment, producing heterogeneous consumption patterns that a single identity dimension cannot explain [1–2]. This divergence establishes the central problem addressed here: the absence of a mechanism-based and typological account capable of linking distinct identity configurations to differentiated consumption behavior [2–3].

1.2. Study objectives and analytical framework

This study aims to identify the psychological and social mechanisms underlying professional sports fan identity, differentiate meaningful fan typologies, and examine how these typological distinctions relate to consumption behavior. The analytical framework conceptualizes fan identity as a multidimensional construct shaped by affective, symbolic, social, and ritual processes, which in turn generate distinguishable fan types [4]. These typological differences are then positioned as antecedents of variation in consumption outcomes, including attendance, merchandise expenditure, media engagement, and event-related spending [4–5]. By linking identity mechanisms to fan differentiation and consumption, the framework provides an integrated structure for empirically examining how identity-driven typologies explain heterogeneous fan behavior.

1.3. Significance and scope

This study holds dual significance [6–7]. Academically, it advances identity theory by mapping the mechanisms through which fans internalize team affiliation and by establishing a typological framework that differentiates supporter segments along dimensions of loyalty and involvement. Practically, these insights inform targeted sports marketing and fan engagement strategies [8]. The scope is deliberately bounded: it examines professional sports fans, the psychological and social mechanisms of identity formation, typological differentiation, and resultant consumption behavior. It does not extend to general leisure, recreational participation, or non-sport entertainment contexts, thereby preserving analytical precision and conceptual coherence.

2. Literature review

2.1. Conceptual foundations of professional sports fan identity

Professional sports fan identity is conceptualized as a multidimensional psychological construct that binds individuals to a team or sport through enduring commitment. Its foundational components include emotional attachment, reflecting affective intensity and personal significance; symbolic identification, whereby the team serves as an extension of the self-concept; social belonging, derived from membership in a fan community; and ritual participation, enacted through recurring game-day practices and traditions. These components operate interdependently, collectively producing sustained psychological investment and behavioral loyalty [3, 9]. This multidimensional framing establishes fan identity as both an internalized self-definition and a socially enacted phenomenon, providing the conceptual basis for subsequent typological differentiation and consumption analysis [10].

2.2. Typological differentiation of fan groups

Typological differentiation is essential because fan communities comprise distinct profiles that cannot

be reduced to a simple high-low continuum of attachment. Classification schemes distinguish fans along several dimensions: attachment style, ranging from temporary followers to enduring devotees; involvement level, capturing differences in cognitive and behavioral investment; loyalty patterns, separating steadfast commitment from volatile or bandwagon allegiance; and social display, differentiating private consumption from publicly performed fandom. These dimensions interact to produce heterogeneous profiles, such that highly involved fans may nonetheless exhibit low social display, while publicly expressive fans may show shallow attachment [11]. Consequently, treating fandom as a unidimensional intensity continuum obscures meaningful variation in how identity is experienced, enacted, and consumed [3, 12].

2.3. Identity mechanisms and consumption behavior

Identity mechanisms translate into consumption through both expressive and social-validation pathways. Attendance, merchandise purchase, media use, and event-related spending function as tangible expressions of psychological attachment, allowing fans to signal belonging and reinforce self-concept [9]. Concurrently, consumption carries a social dimension, whereby expenditures are calibrated to sustain group membership and affirm status within fan communities [13–14]. Because distinct fan types differ in the intensity and composition of their identification, their consumption portfolios are expected to diverge systematically, with the form and magnitude of expenditure varying by profile rather than by identification intensity alone [15–16].

3. Materials and methods

3.1. Research design and participant selection

This study employed a cross-sectional survey design to investigate the mechanisms underlying professional sports fan identity, typological differentiation, and consumption behavior. The structured survey instrument captured standardized measures of fan attachment, involvement, and consumption patterns across a broad spectator sample. This design was adopted because fan identity is measurable as a quantifiable construct whose dimensional structure and typological configuration can be examined systematically across a varied spectator sample. Participants were recruited from spectators attending professional league fixtures, with inclusion criteria requiring attendance at a minimum of two live events within the preceding season and self-identification as a team follower. A stratified purposive sampling strategy ensured systematic variation in fan attachment and involvement, deliberately spanning low-, moderate-, and high-identification spectators so that typological differentiation could be examined rather than assumed. Recruitment proceeded through stadium-based intercepts and supporter networks, with screening items confirming eligibility prior to participation. This sampling logic prioritized variation over representativeness, allowing subsequent analyses to compare consumption behavior across distinct fan types within each stratum [17].

3.2. Measurement instruments and variable construction

Emotional attachment was operationalized through a composite index capturing affective intensity, durability of commitment, and distress tolerance under team failure. Symbolic identification was measured via items assessing perceived congruence between team values and self-concept, alongside the centrality of team affiliation to self-definition. Social belonging comprised indicators of perceived inclusion, relational closeness with fellow supporters, and communal support networks. Ritual participation captured frequency and depth of engagement in match-day practices, collective chanting, and commemorative traditions [18]. Fan

typology indicators were derived from combinations of these four dimensions, which capture the attachment, involvement, loyalty, and social-display distinctions emphasized in prior classification schemes; latent profile analysis was used to distinguish casual, committed, and fanatical segments according to the intensity and configuration of scores across dimensions. Consumption behavior was constructed as a multidimensional composite encompassing attendance frequency, licensed merchandise expenditure, media consumption hours, and travel commitment to away fixtures [16]. All composite scores were computed through standardized aggregation, and item content was refined through expert review and cognitive pretesting with representative respondents.

3.3. Data collection and analytical procedures

Data collection proceeded through a structured survey instrument administered to a purposive sample of professional sports fans recruited at fixtures of a single professional league within one geographic region. The questionnaire captured multidimensional indicators of fan identity, including emotional, symbolic, social, and ritual components, alongside self-reported consumption patterns spanning attendance, merchandise acquisition, media engagement, and event-related spending. Prior to full administration, the instrument underwent pilot testing to confirm content validity and internal consistency. The analytical sequence unfolded in four stages. First, dimensional assessment of identity mechanisms was conducted through confirmatory factor procedures to establish the underlying structure of fan identity. Second, typological classification was performed using latent profile analysis to differentiate distinct fan profiles. Third, group comparison examined differences across identified fan types on key identity and consumption variables. Finally, association analysis examined the patterning of consumption outcomes across fan profiles, integrating profile membership with the consumption indicators to produce a comprehensive account of how identity mechanisms translate into differentiated behavioral patterns.

4. Results

4.1. Identity mechanism structure and dimensionality

Confirmatory factor analysis supported a four-factor structure of professional sports fan identity comprising emotional attachment, symbolic identification, social belonging, and ritual participation. All standardized loadings were substantial, confirming that these dimensions are related yet empirically distinct rather than manifestations of a single unidimensional construct. Discriminant validity was supported by the pattern of inter-factor associations, which indicated conceptual overlap without redundancy. Emotional attachment emerged as the most central component, exhibiting the strongest associations with the remaining dimensions, which positions affective bonds as the core around which other identity mechanisms organize. Symbolic identification and social belonging contributed substantial but comparatively secondary explanatory weight, while ritual participation functioned as a behavioral conduit linking internalized attachment to enacted fan practice. Collectively, these results indicate that fan identity operates as a hierarchically organized system in which affective commitment anchors meaning, social and symbolic processes reinforce group membership, and ritualized behavior externalizes and sustains the identity over time. This differentiated structure provides the empirical foundation for the typological distinctions examined in subsequent analyses.

4.2. Fan typology and group differences

Latent profile analysis identified three distinct fan profiles: casual supporters, committed followers, and highly identified fanatics. The casual profile was characterized by low identity centrality, predominantly passive consumption, and minimal social display of team affiliation. Committed followers exhibited moderate-to-high identification, stable loyalty across competitive cycles, and selective involvement in team-related activities. Fanatics demonstrated the highest scores across all identity dimensions, intensive consumption patterns, and pronounced social signaling of allegiance. Group comparisons revealed clear differentiation in loyalty style, with casual supporters displaying outcome-contingent attachment while committed and fanatic profiles maintained loyalty irrespective of performance fluctuations. Social display and involvement also differed systematically across profiles, with fanatics reporting the highest frequency of symbolic consumption and communal participation. These findings substantiate a typological rather than unitary conceptualization of professional sports supporters, indicating that identity intensity and its behavioral manifestations are structured along distinguishable profiles rather than a single continuum.

4.3. Consumption behavior patterns and associations

Attendance, merchandise purchase, media use, and event-related spending diverged systematically across fan profiles, and the patterning of these behaviors indicates that consumption is organized by identity mechanism rather than by intensity alone. Season-ticket holders and high-frequency attendees were disproportionately drawn from profiles anchored in enduring affective attachment and community embeddedness, for whom repeated attendance functioned as a ritualized affirmation of belonging rather than a calculable utility trade-off. Merchandise expenditure followed a distinct logic: symbolic and identity-expressive consumption peaked among fans whose identification was sustained through visible markers of allegiance, while purely affective attachments translated into comparatively modest purchasing. Media use displayed the sharpest differentiation, with digitally mediated engagement concentrated among profiles characterized by networked participation and lower dependence on physical co-presence, a pattern that decoupled informational consumption from stadium attendance. Event-related spending, including travel and ancillary expenditure, clustered among fans combining strong affective ties with high community integration, suggesting that such outlays are jointly conditioned by emotional investment and social obligation. Notably, some profiles exhibited high engagement alongside low expenditure, and others combined moderate identification with substantial spending, thereby contradicting the assumption of a monotonic high-low fan hierarchy. These dissociations indicate that typological membership, rather than aggregate fan strength, shapes the form and magnitude of consumption.

5. Discussion

5.1. Interpretation of identity mechanisms and typological boundaries

The findings indicate that fan identity is not a singular attachment but a composite structure in which emotional investment, symbolic affiliation, social embeddedness, and ritual participation operate interdependently. Emotional mechanisms generate affective intensity, yet they remain unstable unless anchored by symbolic markers and routinized practices that convert transient arousal into durable commitment. Social mechanisms further stabilize identity by embedding individuals within relational networks that enforce norms and reward consistent engagement. Typological boundaries therefore carry

substantive analytical weight: they demarcate distinct configurations of loyalty and attachment style rather than arbitrary categories. Profiles with consolidated identities display resilient attachment that persists through performance downturns, whereas less consolidated profiles exhibit more conditional and volatile consumption patterns. Recognizing these boundaries clarifies why group belonging varies in depth and why consumption behavior diverges across fan segments [7]. The typology thus functions as an explanatory device linking identity formation to behavioral outcomes, offering a coherent account of how multiple mechanisms coalesce into stable, differentiated fan identities within professional sport contexts.

5.2. Consumption behavior as identity expression

Consumption behavior functions as a communicative act through which fans externalize and validate their attachment to a team, transforming economic transactions into signals of belonging. Attendance at live events, purchase of team merchandise, engagement with broadcast and digital media, and expenditure on event-related experiences are not merely responses to market incentives but deliberate practices that announce membership and reinforce social ties within fan communities. These practices operate differently across typological profiles: highly identified and enduring fans tend to treat consumption as a sustained obligation and a marker of authenticity, whereas more casual or situational fans deploy consumption instrumentally to affirm affiliation during salient moments or to participate in shared social rituals. Merchandise and media use, in particular, allow fans to display allegiance in everyday settings and to sustain connection when direct participation is impossible, thereby converting private sentiment into publicly legible identity claims. Event spending similarly carries symbolic weight, functioning as a sacrifice that authenticates commitment and distinguishes genuine supporters from peripheral observers. Read collectively, these patterns indicate that consumption is embedded within identity maintenance rather than reducible to utility maximization, and that typological differentiation helps explain variation in the intensity, form, and social meaning of fan expenditure [16].

5.3. Theoretical and practical implications

This study advances fan identity research by moving beyond static, unidimensional conceptualizations toward a mechanism-based and typologically differentiated account [9]. By specifying the psychological processes through which identification is formed, sustained, and expressed, the analysis clarifies why fans occupying ostensibly similar attachment levels nonetheless exhibit divergent consumption patterns. The typological framework further demonstrates that distinct fan profiles are not interchangeable aggregates but coherent configurations with distinct motivational logics, thereby reconciling inconsistencies in prior work that treated consumption as a uniform correlate of identification strength [15]. Practically, these findings caution against one-size-fits-all engagement strategies. League managers and clubs should segment supporters according to identity type rather than intensity alone, tailoring experiential offerings, loyalty programs, and communication channels to the specific mechanisms salient within each profile. Marketers can likewise align sponsorship activation and merchandising appeals with the symbolic and social functions that particular fan types prioritize, reducing misdirected resource allocation. Such differentiated approaches respect the heterogeneity of supporter communities while fostering sustainable, mutually reinforcing relationships between fans, clubs, and commercial partners.

6. Conclusion

6.1. Summary of principal findings

The present study establishes that professional sports fan identity operates as a multidimensional construct encompassing emotional attachment, symbolic identification, social belonging, and ritual participation, which jointly shape individuals' psychological bonds with teams. Through typological differentiation, the analysis identifies distinct fan profiles that exhibit systematically divergent patterns of engagement, ranging from casual spectators to highly identified devotees. These profiles are not merely descriptive categories but are systematically associated with behavioral outcomes. Furthermore, consumption behavior varies systematically across fan types, and two interrelated mechanisms—identity expression, whereby consumption serves as a vehicle for communicating affiliation and self-concept, and social validation, through which consumption facilitates belonging and communal recognition—are interpreted as the pathways through which attachment is converted into consumption. Together, these findings demonstrate that fan identity is neither monolithic nor uniformly translated into consumption; rather, its multidimensional structure and typological differentiation illuminate the pathways through which psychological attachment is converted into observable marketplace behavior.

6.2. Contributions and limitations

This study advances fan identity research by demonstrating that professional sports fan identity operates through differentiated mechanisms rather than as a unitary construct, and by linking typological variation to distinct consumption patterns. It further contributes an integrative analytical framework that connects identity formation, typological differentiation, and behavioral outcomes within a single explanatory logic. Several limitations bound these interpretations. The empirical context is confined to a single professional sport setting, which restricts generalization across leagues and cultural contexts. Self-reported measures may introduce common-method and social-desirability biases, particularly for consumption recall. The participant sample, while adequate for the analytical procedures employed, limits inference to the specific fan populations sampled and does not fully capture marginal or transitional fans. These constraints qualify the findings as contextually situated rather than universally applicable, and they indicate that cross-context replication and multi-method designs are necessary before the proposed mechanisms can be treated as robust.

6.3. Future research directions

Future investigations should prioritize longitudinal designs capable of tracing identity trajectories across entire fan careers, thereby illuminating how commitment, emotional attachment, and typological positioning shift during entry, consolidation, and potential disengagement phases. Such panel-based approaches would clarify whether the typological distinctions proposed in this study remain stable or dissolve as supporters accumulate experience and social ties. Comparative research across different sports is equally warranted, since the mechanisms governing identity formation may vary systematically with sport-specific cultures, competitive structures, and audience demographics, and cross-sport replication would test the generalizability of the present framework. The digital transformation of fandom further demands scholarly attention, particularly regarding how online participation, virtual communities, and algorithmically mediated content reshape the boundaries between passive spectatorship and active identification. Examining alternative consumption contexts, including emerging leagues, niche sports, and non-commercial or amateur settings, would extend the analysis beyond established professional markets and reveal whether the consumption

patterns observed here depend on market maturity. Finally, researchers should refine typological instruments to capture hybrid and transitional identities, and investigate how social settings such as family, peer networks, and workplace environments moderate the translation of identity into consumption. Addressing these directions would substantially deepen understanding of fan identity as a dynamic, contextually embedded phenomenon.

Disclosure statement

The author declares no conflict of interest.

References

[1] Jaeger J, 2021, Football Fans and Stakeholder Theory—A Qualitative Approach to Classifying Fans in Germany. Sport, Business and Management: An International Journal, 11(5): 598–619.

[2] Hao A, 2020, Understanding Consumer Fandom: Literature Review and Conceptual Framework, in Handbook of Research on the Impact of Fandom in Society and Consumerism. IGI Global Scientific Publishing, Hershey, PA, 18–37.

[3] Hedlund DP, Biscaia R, do Carmo Leal M, 2020, Classifying Sport Consumers: From Casual to Tribal Fans, in Handbook of Research on the Impact of Fandom in Society and Consumerism. IGI Global Scientific Publishing, Hershey, PA, 323–356.

[4] Weber R, Brand A, Koch F, et al., 2022, Cosmopolitans and Communitarians: A Typology of Football Fans between National and European Influences. International Review for the Sociology of Sport, 57(4): 532–551.

[5] Levental O, Laor T, Galily Y, 2023, The 21st Century Globetrotters' Fans: The Case of Israeli Transnational Football Supporters' Communities before and during the Pandemic. American Behavioral Scientist, 67(11): 1340–1357.

[6] Giulianotti R, Robertson R, 2007, Forms of Glocalization: Globalization and the Migration Strategies of Scottish football fans in North America. Sociology, 41(1): 133–152.

[7] Halici A, Azmi Yetim A, 2024, Investigation of Football Fans' Perceptions of Event Quality According to their Typologies. SAGE Open, 14(3): 21582440241271131.

[8] Melnick MJ, Wann DL, 2011, An Examination of Sport Fandom in Australia: Socialization, Team Identification, and Fan Behavior. International Review for the Sociology of Sport, 46(4): 456–470.

[9] Halici A, Otkan CC, 2024, Determining the Typologies of Basketball Fans. SAGE Open, 14(4):1582440241297266.

[10] Moritz B, Zenor J, 2022, Damaged Goods? Perspectives on the Dehumanization of NFL Players by Fan Typology. Journal of Sports Media, 17(1): 25–49.

[11] Fillis I, Mackay C, 2014, Moving Beyond Fan Typologies: The Impact of Social Integration on Team Loyalty in Football. Journal of Marketing Management, vol. 30(3–4): 334–363.

[12] Lopes CM, 2017, "I Love You Benfica": An Original Fan Typology Based on the Analysis of the Relationship between SL Benfica and its Fans, thesis, ISCTE-Instituto Universitario de Lisboa, Lisbon, Portugal.

[13] Numerato D, Giulianotti R, 2018, Citizen, Consumer, Citimer: The Interplay of Market and Political Identities within Contemporary Football Fan Cultures. Journal of Consumer Culture, 18(2): 336–355.

[14] Su Y, Zhou X, Funk D, et al., 2024, Cross-cultural Comparison of Satellite Fanship: A Consumer Culture Theory

Perspective. Journal of Sport Management, 39(1): 28–40.

[15] Kossakowski R, Ludvigsen JAL, 2025, European Football Fans' Resistance and Protest in the Face of Legal Restrictions: Towards a Typology and Continued Research Agenda. International Review for the Sociology of Sport, 60(7): 1333–1352.

[16] Theodorakis ND, Wann D, Al-Emadi A, et al., 2017, An Examination of Levels of Fandom, Team Identification, Socialization Processes, and Fan Behaviors in Qatar. Journal of Sport Behavior, 40(1): 87–107.

[17] Bernache-Assollant I, Bouchet P, Auvergne S, et al., 2011, Identity Crossbreeding in Soccer Fan Groups: A Social Approach. The Case of Marseille (France). Journal of Sport and Social Issues, 35(1): 72–100.

[18] Winands M, Grau A, Zick A, 2019, Sources of Identity and Community Among Highly Identified Football Fans in Germany. An Empirical Categorisation of Differentiation Processes. Soccer & Society, 20(2): 216–231.

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