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Neurodivergent Attachment Theory

Dr. Monsheng Letsoalo Rewired by Dr. Mo 19 May 2025



Abstract

Traditional attachment theory, developed within neurotypical frameworks, has long served as the foundation for understanding human bonding and relational dynamics. However, this framework inadequately reflects the lived experiences of neurodivergent individuals, those whose cognitive, sensory, and emotional processing diverge from dominant norms, such as individuals with Autism Spectrum Disorder (ASD), Attention-Deficit/Hyperactivity Disorder (ADHD), and other neurodevelopmental conditions. This paper proposes a new theoretical model: Neurodivergent Attachment Theory (NAT), which reframes core attachment concepts by accounting for sensory sensitivities, emotional regulation differences, masking behaviors, and hyperfocus tendencies often seen in neurodivergent populations. Drawing from interdisciplinary literature across psychology, neuroscience, and neurodiversity scholarship, this model introduces distinct attachment styles observed in neurodivergent individuals. These include Sensory-Secure, Masking-Avoidant, Hyperfocus-Attached, Looping-Disorganized, and Cognitive-Connector styles. The paper also explores the relational, clinical, and public health implications of reframing attachment through a neurodivergent lens. By positioning NAT as a parallel and complementary model to classical attachment theory, this work contributes a culturally and neurologically inclusive approach to understanding human connection.

Introduction

Attachment theory, first conceptualized by John Bowlby (1969) and expanded by Mary Ainsworth (1978), remains one of the most influential frameworks in developmental psychology. Its core premise, that early interactions with primary caregivers form internal working models that shape future relationships, has guided decades of research and clinical practice. While this theory has proven valuable in understanding patterns of relational security, avoidance, and anxiety, it was developed and validated within predominantly neurotypical populations, using observational and experimental methods that often excluded or pathologized neurodivergent individuals.

In recent years, the neurodiversity paradigm has gained traction, particularly through the advocacy of autistic adults and researchers who argue that cognitive and sensory differences are forms of natural human variation rather than deficits (Singer, 1999; Walker, 2021). Neurodivergence, encompassing conditions such as Autism Spectrum Disorder (ASD), Attention-Deficit/Hyperactivity Disorder (ADHD), dyslexia, and others, is associated with distinctive sensory processing, social cognition, and emotional regulation profiles (Pellicano et al., 2018). These differences profoundly shape how neurodivergent individuals engage in relationships, form attachments, and express affection.

However, existing attachment frameworks frequently misinterpret these behaviors. For example, an autistic child who avoids eye contact or physical touch may be classified as "insecure-avoidant," despite forming deep emotional bonds through alternative means such as shared interests, parallel play, or consistent routines (Sng, 2023). Similarly, individuals with ADHD may be labeled "disorganized" due to apparent inconsistencies in attention or emotional expression, when in reality, these behaviors may reflect executive functioning challenges rather than attachment insecurity (Hinshaw et al., 2022).

This gap in the literature signals the need for a more inclusive theoretical model, one that reflects not only the neurocognitive diversity of the human population but also the complexity of relational expression beyond normative standards. This paper introduces *Neurodivergent Attachment Theory (NAT)*, a novel conceptual framework that reframes attachment theory through a neurodivergent lens. Rather than assessing neurodivergent behaviors against neurotypical attachment norms, NAT begins from within the neurodivergent experience, asking how sensory sensitivities, masking, stimming, hyperfocus, and other traits shape the pursuit of safety, connection, and regulation in relationships.

The goals of this paper are fourfold:

- 1. To critique the limitations of classical attachment theory in addressing neurodivergent experiences.
- 2. To synthesize interdisciplinary findings from neuroscience, psychology, and neurodiversity scholarship.
- 3. To propose a set of neurodivergent-specific attachment styles grounded in lived experience and empirical observation.
- 4. To discuss the clinical, therapeutic, and relational implications of adopting NAT within professional practice.

By offering a neurologically inclusive framework for understanding attachment, this work seeks to validate the diverse ways neurodivergent individuals experience love, safety, and connection. It challenges clinicians, educators, and researchers to move beyond deficit models and to embrace the richness of neurodivergent relational life.

Literature Review

Attachment theory has long served as a foundation for understanding socioemotional development, offering insights into the emotional bonds between infants and caregivers (Bowlby, 1969; Ainsworth et al., 1978). Over the decades, the theory has expanded to explore adult romantic attachment (Hazan & Shaver, 1987), attachment trauma (Schore, 2001), and the neurological underpinnings of attachment behavior (Siegel, 2012). Despite these expansions, attachment research continues to center

predominantly neurotypical populations, often failing to account for the sensory, communicative, and emotional variations found in neurodivergent individuals.

Limitations of Classical Attachment Theory for Neurodivergent Populations

While classical attachment theory acknowledges that caregiving behaviors and child temperament interact to shape attachment outcomes (van IJzendoorn & Bakermans-Kranenburg, 2004), it often operationalizes "secure" attachment through neurotypical expressions such as sustained eye contact, proximity-seeking, and emotional reciprocity. These criteria may pathologize neurodivergent behavior that does not conform to expected social norms. For instance, in autistic populations, diminished eye contact, atypical affect, or delayed verbalization are sometimes misinterpreted as signs of insecure or disorganized attachment (Bauminger-Zviely et al., 2014), despite growing evidence that autistic individuals can and do form secure attachments, albeit expressed differently (Milosevic et al., 2018).

ADHD, another commonly studied neurodivergent condition, presents additional challenges for attachment interpretation. Emotional dysregulation, impulsivity, and hyperactivity, core symptoms of ADHD, can mimic signs of insecure attachment but may instead reflect executive dysfunction rather than a relational deficit (Barkley, 2015). Moreover, research suggests that children with ADHD are often subjected to harsher parenting and peer rejection, compounding the risk of misunderstood attachment behaviors (Chronis-Tuscano et al., 2008).

Neurodivergent Relational Styles and Misdiagnosis

Misinterpretation of neurodivergent behaviors as pathological or emotionally deficient has implications not only for attachment assessment but for broader relational and diagnostic contexts. For example, the phenomenon of "masking", in which neurodivergent individuals suppress or camouflage traits to appear neurotypical has been linked to increased anxiety, burnout, and misdiagnosis (Hull et al., 2017). In attachment contexts, masking can be mistaken for disingenuousness or emotional unavailability, further complicating assessments of relational security.

In romantic and platonic relationships, neurodivergent individuals frequently report challenges not because of an inherent inability to connect, but because the norms of connection such as small talk, physical affection, or responsiveness are defined neurotypically (Milton, 2012). Autistic individuals, for instance, may prefer deep, focused conversations over spontaneous emotional exchanges, or value predictability over emotional volatility. These differences are often dismissed as deficits rather than honored as valid neurocognitive preferences.

Emergent Neurodiversity Paradigms in Psychology

The neurodiversity paradigm, first articulated by Judy Singer (1999) and later expanded by theorists such as Nick Walker (2021), rejects the pathologization of neurodevelopmental differences. It promotes a strengths-based understanding of conditions like autism and ADHD as part of natural human variation. This shift has profound implications for attachment research, challenging psychologists to re-evaluate normative assumptions about relational behavior.

Recent work has begun to explore relationality within the neurodivergent experience. Crompton et al. (2020) introduced the concept of the "double empathy problem," suggesting that relational breakdowns between neurotypical and neurodivergent individuals are not the result of autistic social deficits, but rather mutual misunderstanding. This reframing positions neurodivergent individuals as relationally capable in their own right, especially when interacting with others who share or understand their neurocognitive experiences.

The Case for a New Attachment Framework

Despite these theoretical advances, there remains a lack of formal models that integrate attachment theory with neurodivergent cognitive styles, sensory needs, and relational frameworks. While studies have explored parent-child bonding in children with ASD and ADHD (Posserud et al., 2020), they often do so through a deficit-oriented lens. Few, if any, models attempt to theorize attachment from within neurodivergent ontologies, asking how love, connection, and regulation might be differently experienced, not merely impaired.

The current literature thus reveals a critical gap: the absence of an inclusive, affirmative model of attachment that reflects the lived experiences of neurodivergent individuals across the lifespan. Neurodivergent Attachment Theory (NAT), as proposed in this paper, seeks to fill that gap. It does so not by revising traditional categories to "fit" neurodivergent traits, but by **reconstructing the foundation** of attachment theory itself, positioning sensory processing, cognitive rhythm, emotional patterning, and authenticity as key dimensions of attachment style.

Theoretical Framework

Neurodivergent Attachment Theory (NAT) is proposed as a parallel and complementary framework to classical attachment theory. Rather than refuting the core tenets of Bowlby (1969), that humans are biologically wired to seek proximity to caregivers for emotional security, NAT expands the definition of *proximity, safety,* and *attachment behaviors* to encompass neurodivergent sensory, cognitive, and relational realities. NAT redefines what secure attachment *looks and feels like* when filtered through atypical processing systems, highlighting the need to recognize diverse routes to connection and co-regulation.

Foundations in Classical Theory

Classical attachment theory posits that early relationships with caregivers shape internal working models that influence one's expectations of intimacy, safety, and emotional availability (Ainsworth et al., 1978). Securely attached individuals are thought to develop a balance between autonomy and closeness, while insecurely attached individuals may become anxious, avoidant, or disorganized in their relationships. These prototypes, however, were developed and tested within narrowly defined behavioral and cultural parameters.

Additionally, classical theory assumes consistent interpretations of attachment behaviors, such as facial expressions, eye contact, and verbal reassurance. These cues may be filtered or expressed differently in neurodivergent populations due to divergent sensory processing, alexithymia (difficulty identifying feelings), and motor planning differences (Bird & Cook, 2013). Thus, neurodivergent individuals may not fit neatly into the existing attachment quadrants, not due to deficits in attachment, but because their regulatory needs and communicative repertoires differ significantly.

The Neurodiversity Paradigm as a Foundation

NAT is situated firmly within the neurodiversity paradigm, which holds that neurological variation, such as autism, ADHD, dyscalculia, or Tourette's—is a natural and valuable form of human diversity (Singer, 1999; Walker, 2021). Rather than viewing neurodivergence as a disruption to normative development, NAT assumes that neurodivergent individuals experience attachment needs and expressions through different cognitive and sensory frameworks.

This theoretical model draws from social neuroscience and embodied cognition to frame attachment not just as a psychological or emotional phenomenon, but as a *neurobiological regulation system*. In neurodivergent individuals, this system may prioritize different stimuli, rituals, or relational structures. For example, while neurotypical attachment might prioritize sustained mutual gaze, a neurodivergent attachment framework might prioritize parallel play, co-regulated routines, or shared special interests as markers of emotional intimacy.

Core Assumptions of Neurodivergent Attachment Theory

NAT rests on several foundational assumptions:

1. Attachment is Sensory and Cognitive, Not Merely Emotional.

Neurodivergent individuals often experience sensory dysregulation, hypo/hyper-responsivity, or sensory seeking behaviors that influence how and when they seek connection. Touch, tone, or proximity may trigger either comfort or dysregulation depending on sensory thresholds, challenging traditional assumptions of soothing behaviors.

2. Authenticity and Masking Shape Relational Security.

Many neurodivergent individuals engage in masking, suppressing or camouflaging traits to conform to neurotypical expectations (Hull et al., 2017). Prolonged masking leads to relational exhaustion, loss of self, and emotional burnout, which can disrupt secure attachments. NAT reframes authenticity as a critical component of secure attachment, recognizing that the ability to be one's unmasked self is foundational for relational safety.

3. Attachment Expression Varies by Processing Style.

Attachment behaviors among neurodivergent people may include scripting conversations, deep intellectual bonding, stimming near safe people, or nonverbal co-regulation such as mirroring or being in shared space without interaction. These expressions are often invisible or misunderstood in conventional attachment assessments.

4. Neurodivergent Development is Nonlinear and Context-Dependent.

NAT recognizes that attachment styles may shift dramatically across environments, developmental stages, or based on sensory load. A neurodivergent person may appear secure in one setting and disorganized in another, not due to instability, but due to environmental mismatch.

Introducing the Neurodivergent Attachment Styles

From these assumptions, NAT introduces five foundational attachment styles that emerge from neurodivergent ways of sensing, thinking, and connecting:

- 1. **Sensory-Secure Attachment** Characterized by connection through sensory attunement, co-regulated routines, and consistent, non-intrusive engagement.
- 2. **Masking-Avoidant Attachment** Driven by chronic masking, this style seeks closeness but fears being seen. Emotional availability is limited by the exhaustion of performing neurotypicality.
- 3. **Hyperfocus-Attached** Marked by intense fixation on a person, idea, or relationship as a regulatory anchor. This style can create strong bonds but risks enmeshment and identity diffusion.
- 4. **Looping-Disorganized Attachment** Marked by internal looping (rumination, sensory overload, or intrusive thoughts) that disrupts relational stability. This style oscillates between craving and rejecting connection.

These styles are not deficits but adaptations, ways of seeking safety, regulation, and meaning in a world often unaccommodating to neurodivergent needs. NAT reframes attachment not as a fixed label, but as a dynamic interplay between neurology, environment, and interpersonal context.

Core Assumptions of Neurodivergent Attachment Theory

NAT rests on several foundational assumptions:

1. Attachment is Sensory and Cognitive, Not Merely Emotional

In neurodivergent populations, sensory sensitivities, cognitive processing styles, and co-occurring conditions (such as alexithymia or dyspraxia) affect how individuals experience and express attachment. For example, physical touch, often a hallmark of comfort in neurotypical attachment—may cause distress for an autistic individual with tactile defensiveness. In such cases, co-regulation may instead occur through shared rituals, parallel play, synchronized routines, or nonverbal proximity. NAT acknowledges that comfort and security must be redefined through individualized sensory maps.

2. Authenticity and Masking Shape Relational Security

Masking, or camouflaging one's neurodivergent traits to blend into neurotypical environments, is a survival strategy often learned in early childhood (Hull et al., 2017). While masking may initially facilitate social inclusion, chronic masking is associated with identity confusion, exhaustion, depression, and increased suicidality (Cage & Troxell-Whitman, 2019). NAT recognizes that true relational security arises not merely from others' consistency, but from the freedom to exist authentically without judgment or performance. Environments and relationships that reward unmasking are more likely to cultivate secure neurodivergent attachment.

3. Attachment Expression Varies by Processing Style

NAT rejects the assumption that there is a universal language of attachment. Neurodivergent individuals may not express love or distress in conventionally recognized ways. For example, ADHDers may appear inconsistent in relational availability due to fluctuating executive function, not emotional disinterest. Autistic individuals may exhibit attachment through shared special interests, stimming in the presence of a trusted person, or scripting affirming dialogue. These alternative communicative patterns should not be misread as

4. Neurodivergent Development is Nonlinear and Context-Dependent

NAT challenges linear developmental models that equate age with emotional maturity or relational competence. Neurodivergent development often involves "spiky profiles" where individuals excel in some areas while struggling in others. Attachment patterns may fluctuate depending on sensory load, environmental accommodations, communication access, or trauma history. An individual may exhibit secure attachment in neurodivergent-affirming spaces but appear avoidant or disorganized in settings that pathologize or misinterpret their behaviors.

5. **Co-Regulation is Dynamic, Not Hierarchical**

Traditional attachment theory often positions caregivers (or therapists, teachers, etc.) as stable "regulators" for dysregulated dependents. NAT proposes a more reciprocal model of co-regulation, wherein neurodivergent individuals contribute unique forms of stability, attunement, and innovation in relationships. For example, a neurodivergent child may co-regulate a parent through structured routines or shared rituals. This expands our understanding of what "secure base" means in non-normative contexts.

6. Neurodivergence Does Not Equal Disordered Attachment

A critical tenet of NAT is that neurodivergent attachment styles are not inherently disordered, despite their divergence from traditional norms. When viewed through a neurotypical lens, behaviors like selective mutism, sensory withdrawal, or fixation on objects may be pathologized. NAT reframes these behaviors as adaptive and meaning-laden. Secure attachment for neurodivergent individuals must be understood on their terms, not by comparing them to neurotypical expectations.

7. Environment is a Regulator of Attachment Security

Just as secure attachment is not an internal trait but a dynamic state fostered in relational contexts, NAT emphasizes the regulatory role of the environment. Sensory-safe spaces, communication supports (e.g., AAC), and culturally affirming relationships significantly influence attachment outcomes for neurodivergent individuals. NAT calls for a shift from labeling individuals as insecure or disordered to interrogating whether their environments are safe, inclusive, and responsive enough to foster secure attachment.

With these core assumptions in place, the NAT framework makes space for nuanced, culturally and neurologically inclusive understandings of attachment. It empowers clinicians, educators, families, and researchers to move beyond deficit

models and engage with neurodivergent attachment as a valid and valuable dimension of human connection.

Proposed Neurodivergent Attachment Styles

Building upon the core assumptions of NAT, five distinct neurodivergent attachment styles are proposed. These styles reflect the diversity of attachment expression shaped by neurodivergent sensory, cognitive, and emotional processing patterns. They are not fixed categories but dynamic patterns that may coexist or shift depending on context, development, and relational history.

1. Sensory-Secure Attachment

Description:

Individuals with Sensory-Secure Attachment find comfort and safety primarily through sensory attunement and co-regulated environments that respect their unique sensory profiles. This attachment style is characterized by a steady, predictable rhythm of interaction that supports sensory regulation, such as predictable routines, calming tactile input, or quiet presence.

Key Features:

- Secure in environments that honor sensory preferences (e.g., low noise, dim lighting).
- Use of nonverbal cues like shared breathing rhythms or physical proximity that feels non-intrusive.
- Engagement in co-regulatory routines (e.g., joint rocking, hand-flapping as a shared signal).
- Demonstrates trust and emotional openness when sensory needs are met.

Clinical/Relevance:

Sensory-Secure attachment highlights that attachment security can be rooted in physical and sensory environments, emphasizing that emotional security requires sensory safety for many neurodivergent people.

2. Masking-Avoidant Attachment

Description:

This style is marked by extensive masking or camouflaging of neurodivergent traits to meet external expectations, leading to internal emotional distancing despite a

desire for connection. Individuals may appear avoidant or emotionally withdrawn as a defense against vulnerability and rejection.

Key Features:

- Reluctance or difficulty in expressing authentic emotions.
- Habitual suppression of natural behaviors to blend in socially.
- Emotional exhaustion or burnout from sustained masking efforts.
- Fear of rejection or abandonment, leading to avoidance of intimacy.

Clinical/Relevance:

Masking-Avoidant attachment underscores the impact of societal pressure and stigma on attachment security. Interventions must create spaces where masking is unnecessary and authenticity is celebrated.

3. Hyperfocus-Attached

Description:

Characterized by intense focus and fixation on attachment figures, interests, or relational themes as a means of emotional regulation. This attachment style reflects a deep, sometimes overwhelming investment in connection, which can appear both highly devoted and enmeshed.

Key Features:

- Intense, persistent attention to preferred people or activities.
- Difficulty shifting focus away from attachment anchors.
- Potential for emotional dysregulation when access to the attachment figure is disrupted.
- May experience difficulties in balancing autonomy with closeness.

Clinical/Relevance:

This style can lead to strong, loyal relationships but may also contribute to anxiety or dependency. Support involves helping individuals develop healthy boundaries and emotional flexibility.

4. Looping-Disorganized Attachment

Description:

This style reflects an internal experience of cognitive and emotional "loops", repetitive thoughts, sensory overload, or intrusive memories, that disrupt the ability to maintain coherent attachment strategies. External behavior may fluctuate between seeking closeness and withdrawing abruptly.

Key Features:

- Oscillation between approach and avoidance behaviors.
- Episodes of overwhelm or shutdown linked to sensory or emotional triggers.
- Fragmented relational narratives or difficulty integrating attachment experiences.
- Possible co-occurrence with trauma or heightened stress responses.

Clinical/Relevance:

Looping-Disorganized attachment requires trauma-informed, neurodivergence-affirming approaches that prioritize stabilization and integration rather than labeling as "disorganized" in the traditional sense.

5. Cognitive-Connector Attachment

Description:

This style is characterized by attachment expressed primarily through shared intellectual engagement, pattern recognition, and scripted or ritualized communication rather than affective or physical displays. Emotional closeness is conveyed through cognitive synchrony and shared understanding.

Key Features:

- Preference for relational connection through ideas, routines, or structured dialogue.
- Use of scripting or rehearsed phrases as tools of bonding.
- May show flat or atypical affect yet experience deep emotional bonds.

• Relational security is built through predictability and mental attunement rather than physical closeness.

Clinical/Relevance:

Recognizing Cognitive-Connector attachment expands attachment theory to include intellectual and communicative forms of connection, validating neurodivergent modes of relational expression.

Clinical Implications of Neurodivergent Attachment Theory

The Neurodivergent Attachment Theory (NAT), with its five proposed attachment styles, offers a transformative framework for clinical practice. Recognizing the unique sensory, cognitive, and emotional landscapes of neurodivergent individuals reshapes assessment, intervention, and therapeutic relationships. Below, we explore the clinical implications of NAT in detail, emphasizing how this model can guide practitioners towards more effective, compassionate, and neurodivergence-affirming care.

1. Reconceptualizing Attachment Assessments

Traditional attachment assessments, such as the Adult Attachment Interview (AAI) or Strange Situation Procedure, rely heavily on neurotypical social and emotional expressions, such as eye contact, physical closeness, and verbal affect. NAT highlights that these metrics may not validly capture the attachment security of neurodivergent individuals.

- Sensory-Adapted Assessment Environments: Practitioners must consider sensory sensitivities by conducting assessments in environments that minimize overwhelming stimuli (e.g., reducing noise, providing sensory tools).
- Alternative Communication Modalities: Assessments should incorporate and validate nonverbal communication methods (e.g., AAC devices, written responses, body language) that neurodivergent clients may prefer or require.
- **Nuanced Interpretation of Behaviors:** Behaviors traditionally coded as avoidant or disorganized (e.g., limited eye contact, repetitive movements) may instead be expressions of sensory regulation or cognitive processing, not attachment insecurity.

These shifts require training clinicians to recognize neurodivergent attachment patterns and avoid pathologizing differences.

2. Tailoring Therapeutic Approaches to Attachment Style

The five NAT attachment styles suggest diverse pathways toward relational security, each necessitating individualized clinical strategies:

- Sensory-Secure Attachment: Interventions should emphasize sensory regulation techniques and the creation of safe physical environments. Therapy may incorporate sensory integration methods, co-regulation practices (e.g., paced breathing), and the honoring of personal sensory boundaries.
- Masking-Avoidant Attachment: Treatment focuses on unmasking processes, identity validation, and the development of self-compassion. Therapists should create nonjudgmental spaces where clients can gradually reveal authentic selves without fear of rejection. Psychoeducation on masking's emotional toll is vital.
- **Hyperfocus-Attached:** Clinicians assist clients in balancing intense relational investments with autonomy. Cognitive-behavioral strategies and mindfulness may help manage anxiety stemming from perceived threats to attachment figures. Establishing healthy boundaries and flexibility in focus is a key therapeutic goal.
- Looping-Disorganized Attachment: Trauma-informed approaches that emphasize stabilization, grounding, and integration are essential. Clinicians must be sensitive to sensory overload and cognitive loops, incorporating pacing, gentle reflection, and somatic therapies to support coherence.
- **Cognitive-Connector Attachment:** Therapy might leverage intellectual strengths and scripted communication styles to build rapport and foster emotional expression. Structured dialogue, joint problem-solving, and shared routines can enhance relational trust.

Recognizing these styles prevents one-size-fits-all interventions and promotes personalized care.

3. Emphasizing Authenticity and Unmasking in Therapeutic Relationships

Given the detrimental impact of masking, NAT advocates for therapists to prioritize authenticity in the therapeutic alliance. This includes:

- Validating neurodivergent clients' experiences without demanding neurotypical conformity.
- Encouraging clients to explore and express their genuine selves at their own pace.

- Addressing internalized stigma and fostering positive neurodivergent identity development.
- Supporting clients in navigating social environments while maintaining self-integrity.

This authentic relational space fosters deeper attachment security, promoting healing and resilience.

4. Incorporating Sensory and Cognitive Regulation Techniques

NAT underscores the interplay between sensory processing and attachment. Clinical practice must incorporate:

- Sensory modulation strategies tailored to individual profiles (e.g., weighted blankets, fidget tools, quiet zones).
- Cognitive-behavioral techniques adapted to neurodivergent executive function profiles, including visual schedules and breaking down tasks.
- Psychoeducation on the neurobiological underpinnings of attachment and regulation to empower clients.

By addressing sensory and cognitive needs alongside emotional concerns, clinicians facilitate more holistic attachment repair.

5. Shifting from Pathology to Strengths-Based Models

NAT reframes neurodivergent attachment styles not as deficits but as adaptive responses to unique neurocognitive realities and environmental contexts. This strengths-based lens encourages:

- Recognizing clients' relational creativity and resilience, such as ritualized bonding and intellectual connection.
- Valuing diverse expressions of love and attachment beyond neurotypical norms.
- Advocating for systemic changes to reduce stigma and increase neurodivergent inclusion.

Such shifts reduce shame and support empowerment in clinical work.

6. Supporting Caregivers and Families

Attachment interventions often extend beyond the individual to their social ecology. NAT implies that caregivers, educators, and families need:

- Training to understand neurodivergent attachment needs and expressions.
- Guidance on creating sensory-safe, predictable environments that promote co-regulation.
- Support in respecting and nurturing authentic neurodivergent identities.
- Tools to recognize the impact of masking and how to reduce pressures to conform.

Family-focused interventions can enhance attachment security and relational harmony.

7. Implications for Research and Policy

Clinically, NAT points to the necessity for:

- Developing neurodivergence-sensitive attachment measures and diagnostic tools.
- Designing intervention programs that accommodate sensory and cognitive diversity.
- Informing policy changes to improve access to neurodivergence-affirming mental health services.

Ultimately, this framework promotes equitable care and reduces health disparities for neurodivergent populations.

Discussion and Implications

The development of Neurodivergent Attachment Theory (NAT) offers a vital expansion to traditional attachment frameworks, which have largely centered on neurotypical populations. By integrating neurodivergence into the attachment discourse, NAT challenges the dominant paradigms that often fail to account for the unique sensory, cognitive, and emotional processing differences that shape attachment experiences in neurodivergent individuals. This discussion explores the theoretical, clinical, and social implications of adopting NAT, emphasizing its potential

to improve understanding, assessment, and intervention in both research and practice.

Reconceptualizing Attachment Security

NAT prompts a reconceptualization of what constitutes attachment security for neurodivergent individuals. Traditional criteria, such as proximity-seeking, eye contact, and affective reciprocity, may not manifest in the same way among those with sensory sensitivities, social communication differences, or cognitive processing variations. NAT's five proposed attachment styles demonstrate that neurodivergent individuals express attachment through diverse, and sometimes non-normative, behaviors that are adaptive rather than pathological. This reframing invites researchers and clinicians to expand their operational definitions of secure attachment, reducing the risk of misclassification and pathologization.

Clinical Practice and Therapeutic Relationships

Clinically, NAT emphasizes the need for neurodivergence-affirming practices that respect clients' sensory and cognitive profiles. Therapeutic approaches should be individualized to accommodate different attachment styles, whether that entails creating sensory-safe environments for Sensory-Secure clients, supporting unmasking and authentic self-expression for Masking-Avoidant individuals, or implementing trauma-informed interventions for Looping-Disorganized cases. By tailoring interventions, therapists can foster more authentic and effective therapeutic alliances, which are crucial for repairing attachment wounds and promoting relational resilience.

Enhancing Assessment Tools

NAT calls for the refinement or development of assessment tools that accurately capture attachment dynamics in neurodivergent populations. Current instruments risk misinterpretation by relying on neurotypical social cues, potentially leading to erroneous conclusions about attachment insecurity. Incorporating sensory profiles, alternative communication methods, and culturally relevant behaviors into assessment protocols will yield more valid and reliable data, advancing both clinical diagnostics and research methodologies.

Social and Educational Implications

Beyond clinical settings, NAT highlights the importance of educating families, caregivers, and educators about neurodivergent attachment expressions. Awareness can reduce misjudgments that may result in inappropriate responses, such as punitive discipline for behaviors stemming from sensory overload or social anxiety. Educational programs that integrate NAT principles can promote environments that nurture secure attachments by honoring neurodivergent needs and communication styles.

Contributions to Broader Attachment Theory

The introduction of NAT enriches attachment theory by incorporating neurodiversity as a fundamental variable influencing relational development. It encourages scholars to reconsider attachment as a fluid construct shaped by neurobiological diversity, rather than a universal pattern with neurotypical benchmarks. This inclusivity enhances the explanatory power of attachment theory and supports its application across a broader spectrum of human experience.

Implications for Future Research

NAT opens new avenues for empirical investigation, including longitudinal studies to observe the developmental trajectories of neurodivergent attachment styles, cross-cultural research to explore variations in attachment expression, and intervention studies to evaluate tailored therapeutic models. Such research will be critical to validate, refine, and operationalize NAT in diverse contexts.

Limitations and Future Research Directions

While Neurodivergent Attachment Theory (NAT) offers a promising and necessary expansion of traditional attachment frameworks, it is important to acknowledge the current limitations inherent in the conceptualization, application, and empirical grounding of NAT. Addressing these limitations transparently not only contextualizes the theory within the broader field but also identifies critical pathways for future investigation and refinement.

Limitations

1. Conceptual Novelty and Empirical Validation

NAT remains largely a theoretical construct, derived from an integration of existing attachment literature with clinical observations and emerging research on neurodiversity. As such, its validity is currently untested through rigorous empirical methods. The absence of standardized measures specifically designed to capture neurodivergent attachment behaviors restricts the ability to quantitatively validate the proposed attachment styles. Without longitudinal and cross-sectional studies that directly assess NAT's predictive power and distinctiveness, the theory remains provisional.

2. Heterogeneity within Neurodivergent Populations

Neurodivergence encompasses a broad spectrum of neurological and cognitive differences, including autism spectrum disorder (ASD), attention-deficit/hyperactivity disorder (ADHD), dyslexia, and other conditions, each characterized by unique

sensory, communicative, and cognitive profiles. NAT, in its current form, attempts to provide a unified model of attachment across this diversity, which may oversimplify or obscure condition-specific attachment dynamics. For example, the attachment behaviors of an autistic individual with high sensory sensitivity might differ significantly from those of an adult with ADHD whose attachment challenges stem more from impulsivity or emotional regulation difficulties.

3. Cultural and Societal Contexts

Attachment theory itself is culturally situated, and NAT inherits this limitation. The conceptualization of attachment behaviors and expressions is influenced by cultural norms around emotional expression, relational expectations, and caregiving practices. While NAT seeks to expand definitions of attachment security to include neurodivergent presentations, it does not yet fully integrate cultural variability in attachment across different societies or intersectional identities such as race, gender, socioeconomic status, and cultural background. This limits the universality of the model and its applicability in diverse global contexts.

4. Potential for Over-Pathologization or Overgeneralization

There is a delicate balance between recognizing neurodivergent attachment styles as valid expressions of relational security or insecurity and the risk of inadvertently pathologizing natural neurodivergent behaviors. The labeling of new attachment styles, especially those tied closely to cognitive or sensory processing differences, could risk being misunderstood as deficits or disorders rather than adaptive mechanisms. Conversely, there is a risk of overgeneralization, whereby all neurodivergent relational behaviors are interpreted solely through the lens of NAT, potentially neglecting the heterogeneity and individuality of lived experiences.

5. Challenges in Clinical Translation

Although NAT holds promise for informing neurodivergence-affirming therapeutic approaches, the complexity of tailoring interventions to specific NAT attachment styles presents practical challenges. Therapists and clinicians currently lack standardized training and guidelines for applying NAT concepts in practice. Without clear protocols, there is potential for inconsistent or incomplete application, which could limit the therapeutic effectiveness or lead to misinterpretation of clients' needs.

Future Research Directions

To address these limitations and advance NAT as a robust scientific and clinical framework, several key research directions are proposed:

1. Development and Validation of Assessment Instruments

Creating neurodivergence-sensitive tools for measuring attachment is foundational. Future research should prioritize the design of assessment instruments that incorporate sensory profiles, alternative communication styles (e.g., nonverbal communication, echolalia, stimming behaviors), and nontraditional expressions of attachment security. Psychometric validation of these instruments through diverse neurodivergent samples will be critical to establish reliability and validity.

2. Longitudinal and Developmental Trajectory Studies

Long-term studies tracking attachment development in neurodivergent individuals from infancy through adulthood can illuminate how NAT attachment styles emerge, stabilize, or change over time. Such research would clarify the developmental mechanisms underlying each NAT style and identify critical periods for intervention.

3. Condition-Specific Attachment Research

Future investigations should disaggregate neurodivergent populations to explore how attachment manifests differently across diagnostic categories (e.g., ASD vs. ADHD). This would refine the NAT framework, potentially identifying subtype-specific attachment profiles and informing more precise clinical interventions.

4. Cultural and Intersectional Perspectives

Cross-cultural research examining how NAT attachment styles are expressed and perceived in diverse cultural contexts is essential. Intersectional analyses integrating factors such as ethnicity, gender identity, and socioeconomic status will enhance the inclusivity and applicability of the theory globally. Qualitative methodologies, including ethnographic and narrative approaches, can provide rich contextual insights into culturally mediated attachment expressions among neurodivergent individuals.

5. Intervention Development and Clinical Trials

Rigorous intervention research is needed to develop and evaluate therapeutic models tailored to NAT attachment styles. Randomized controlled trials (RCTs) testing the efficacy of neurodivergence-affirming, attachment-focused interventions will provide empirical support for clinical translation. Additionally, research should explore training programs for clinicians to enhance competence in recognizing and addressing NAT attachment dynamics.

6. Neuroscientific Correlates of NAT

Integrating NAT with neuroscientific research on attachment and neurodivergence can elucidate the neurobiological underpinnings of proposed attachment styles. Functional neuroimaging, electrophysiological studies, and biomarker research may uncover distinct neural pathways associated with sensory regulation, emotional processing, and social cognition in neurodivergent attachment. This integration would strengthen the theoretical foundation and promote interdisciplinary collaboration.

7. Exploration of Neurodivergent Attachment in Diverse Relationships

While NAT currently focuses primarily on caregiver-child and therapeutic relationships, future research should examine how neurodivergent attachment styles manifest in peer, romantic, and community relationships. Understanding these dynamics will enhance the ecological validity of NAT and inform interventions across the lifespan.

By addressing these limitations and pursuing the outlined research directions, the field can evolve toward a more comprehensive, inclusive, and empirically grounded understanding of attachment that honors neurodiversity. This progress holds the promise not only of advancing scientific knowledge but also of improving the well-being and relational fulfillment of neurodivergent individuals worldwide.

Conclusion

This paper has introduced Neurodivergent Attachment Theory (NAT) as a vital extension of traditional attachment models that more accurately reflects the relational experiences of neurodivergent individuals. By integrating knowledge from attachment theory, neurodiversity studies, and clinical observations, NAT acknowledges the unique sensory, communicative, and emotional regulation differences that shape attachment behaviors in neurodivergent populations. The proposed NAT attachment styles, Secure, Sensory-Seeking, Sensory-Averse, Hyper-Attuned, and Disengaged, offer a nuanced framework to understand how neurodivergent individuals experience connection, security, and relational challenges.

Recognizing the limitations of existing attachment theories to fully capture neurodivergent relational realities, this paper highlights the importance of expanding research efforts to validate and refine NAT. Such efforts will include developing appropriate measurement tools, conducting longitudinal and culturally sensitive research, and tailoring clinical interventions that affirm neurodivergent ways of being. Ultimately, embracing neurodivergent attachment styles is an essential step toward fostering inclusive psychological theory and practice. Doing so promises not only to improve therapeutic outcomes but also to enhance societal understanding and acceptance of neurodivergent individuals' diverse ways of loving and being loved. Continued interdisciplinary research and clinical innovation will be critical to advancing NAT and transforming attachment science into a truly inclusive field.

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