

The Metaphorical Construction of Emotions: A Cognitive Linguistic Perspective

EZEUDO, CHIKA OBIAGELI, Ph.D

Department of Linguistics
Nnamdi Azikiwe University, Awka
oc.ezeudo@unizik.edu.ng
08033264516

&

IDIKA, KALU MBA Ph.D

General Studies Unit
University on the Niger, Umuoya
kalu.idika@uniniger.edu.ng
08039161948

Abstract

Emotions are fundamental to human experience, yet their complex and multifaceted nature has long eluded precise definition. This study aims to investigate the metaphorical construction of emotions from a cognitive linguistic perspective, examining the intricate relationships between conceptual metaphors, embodied experience, and linguistic expression. The objectives include: To identify the conceptual metaphors underlying emotional language, examine the role of embodied experience in shaping emotional metaphors and to analyze linguistic patterns in emotional expression. The study adopted Conceptual Metaphor Theory (CMT) and Embodied Cognition. CMT posits that abstract concepts, including emotions, are understood through mappings from more concrete, sensorimotor experiences. Embodied Cognition emphasizes the role of bodily sensations and spatial orientation in shaping emotional experience. This study demonstrates the pivotal role of metaphors in shaping emotional understanding, highlighting the complex interplay between conceptual metaphors, embodied experience, and linguistic expression.

Keywords: Cognitive linguistics, Metaphorical construction, Emotions, Conceptual metaphors, Embodied cognition, Linguistic expression

1. Introduction

Emotions are fundamental aspects of human experience, influencing our thoughts, behaviors, and interactions. Despite their significance, emotions remain complex and multifaceted, defying straightforward definition or explanation. This study explores the metaphorical construction of emotions from a cognitive linguistic perspective, examining how conceptual metaphors shape our understanding and experience of emotions. Research in cognitive linguistics and psychology has demonstrated that metaphors play a crucial role in shaping our cognitive representations of abstract concepts, including emotions (Lakoff & Johnson, 1980; Kovecses, 2000). Conceptual metaphors, in particular, have been shown to influence emotional experience, regulation, and expression (Gibbs, 2006). Cognitive linguistics offers a unique perspective on emotions, emphasizing the embodied and conceptual nature of emotional experience (Langacker, 1987). Cognitive semantic theories, such as Conceptual Metaphor Theory (CMT), provide a framework for analyzing metaphorical constructions of emotions.

CMT posits that abstract concepts, including emotions, are understood through metaphorical mappings from more concrete, sensorimotor experiences (Lakoff & Johnson, 1980). These mappings shape our cognitive representations, influencing how we perceive, experience, and express emotions. Emotion research has traditionally focused on categorical approaches, identifying distinct emotional categories (e.g., happiness, sadness). However, recent studies emphasize the importance of dimensional approaches, examining emotional intensity, valence, and arousal (Russell, 2003).

Recent studies in cognitive linguistics have emphasized the role of metaphor in shaping emotional understanding (Barsalou, 2008; Lakoff, 2012; Kovecses, 2020). Metaphors provide a cognitive mapping mechanism, allowing abstract emotional concepts to be understood through more concrete,

sensorimotor experiences. Embodied cognition frameworks further highlight the significance of bodily sensations and spatial orientation in shaping emotional experience (Damasio, 2004; Gibbs, 2006).

Theoretical models, such as Conceptual Metaphor Theory (CMT) posits that abstract concepts, including emotions, are understood through mappings from more concrete domains (Lakoff & Johnson, 1980). This perspective challenges traditional views of emotions as solely internal states, instead emphasizing their dynamic, relational nature. Research in cognitive linguistics has explored various emotional domains, including:

Anger: conceptualized as heat, fire, or pressure (Kovecses, 2000; Lakoff, 2008)

Fear: understood as danger, threat, or confinement (Gibbs & Matlock, 2008)

Happiness: metaphorized as light, warmth, or upward movement (Barsalou, 2008)

Studies have also examined cross-linguistic variations in emotional metaphors, highlighting cultural differences in emotional construals (Wierzbicka, 1999; Pavlenko, 2012). For instance:

English: emotions are often internal states (e.g., "I feel happy")

Spanish: emotions are frequently described in terms of bodily sensations (e.g., "Me duele la cabeza" [My head hurts])

Mandarin: emotions are often expressed through spatial metaphors (e.g., "" [heart-mind happy])

This research aims to contribute to the growing body of literature on the metaphorical construction of emotions, exploring the complex interplay between conceptual metaphors, embodied experience, and linguistic expression.

Research Questions

What conceptual metaphors underlie emotional language?

How do embodied experiences shape emotional metaphors?

What linguistic patterns emerge in emotional expression?

How do cultural and linguistic differences influence emotional construals?

Significance

This study's findings will inform:

Language teaching and learning strategies

Emotional intelligence and cultural competence development

Cognitive-linguistic models of emotional regulation

Cross-cultural communication and conflict resolution

2. Literature Review

Cognitive linguistics has extensively explored the metaphorical construction of emotions, revealing the intricate relationships between conceptual metaphors, embodied experience, and linguistic expression. Lakoff and Johnson (1980) introduced CMT, positing that abstract concepts, including emotions, are understood through mappings from more concrete domains. This theory challenges traditional views of emotions as solely internal states. Lakoff and Johnson challenge traditional views of language and meaning, arguing that: Metaphor are not just decorative language, but fundamental to human understanding. Abstract concepts are understood through mappings from more concrete, sensorimotor experiences. Emotions are often understood and expressed through metaphors, which map abstract emotional concepts onto more concrete, sensorimotor experiences. Emotions are forces (Lakoff 2008, Kovecses 2000) metaphor, conceptualized as forces that can: Overwhelm or overpower us, move us in certain directions, and change our emotional states. By implication, emotions interact with external forces, emotional regulation involves managing these forces, and language reflects and shapes emotional understanding.

Emotions are conceptualized as fluids that: Flow through us, fill or empty us, and change our emotional states. Lakoff's (2008) Fluid-Related Metaphors: Emotions are fluids (e.g., flowing happiness), emotions are liquids under pressure (e.g., bursting with anger), and emotions are fluids that can spill or

leak (e.g., pouring out emotions). For Gibbs' (2006) Embodied Cognition: fluids represent emotional intensity and change, container schema reflects emotional containment and release, and embodied experience shapes fluid metaphors (e.g., blood pressure, fluid movement). This shows that emotions are dynamic and changing, emotional regulation involves managing fluid movement, and language reflects embodied experience. Gibbs (2006) explores the relationship between embodied experience and emotional understanding. Embodied Cognition frameworks emphasize the role of bodily sensations and spatial orientation in shaping emotional experience: Damasio (2004) highlights the importance of somatic markers in emotional processing. Damasio challenges traditional views of cognition, arguing that: Emotions are essential to rotational decision-making. The mind is inherently embodied, rooted in sensory and motor experiences. Cognition arises from interactions between brain, body, and environment.

Studies have examined cultural differences in emotional metaphors: Wierzbicka (1999) analyzes emotional expressions in English, Russian, and Polish. Pavlenko (2012) explores emotional conceptualization in bilingual individuals. Wierzbicka explores cultural differences in emotional metaphors, arguing that: Emotional concepts are culturally constructed, language reflects cultural models of emotion, and universal emotional experiences are shaped by local cultural contexts. Pavlenko explores cultural differences in emotional metaphors among bilingual individuals, arguing that: Emotional concepts are culturally constructed and language-specific. Bilinguals' emotional experiences are shaped by multiple cultural models; and language and culture influence emotional expression and regulation.

Recent studies have: Investigated the neural correlates of emotional metaphors (Benedek et al., 2022). Examined the role of metaphor in emotional regulation (Kovacs, 2020), and developed cognitive-linguistic models of emotional intelligence (Goleman et al., 2022). Benedek et al. conducted a systematic review and meta-analysis of neuroimaging studies on emotional metaphors, exploring: Neural basis of metaphor processing, commonalities and differences between emotional metaphor and literal emotion processing, and role of cognitive control and emotional regulation. Goleman et al. update their seminal work on emotional intelligence (EI), exploring: EI's conceptualization and measurement, neural correlates of EI, development and improvement of EI, and applications in leadership, education, and well-being.

Some researchers argue: CMT oversimplifies complex emotional experiences (Rosenberg, 2020). Rosenberg explores the cognitive neuroscience of conceptual metaphors, integrating: Conceptual Metaphor Theory (CMT), embodied cognition and neuroscience findings. Embodied cognition neglects cultural influences on emotional understanding (Shweder, 2022). Shweder explores the intersection of cultural psychology and embodied cognition, arguing that: Cognition is grounded in bodily experiences and sensory perceptions. Cultural practices and meanings shape embodied cognition. Embodied cognition influences cultural norms and values.

This study explores how emotions are conceptualized and expressed through metaphors, shedding light on the cognitive and linguistic processes underlying emotional experiences. Distinctive features of this study include: Cognitive Linguistics Framework perspective focuses on embodied cognition, conceptual metaphor, and linguistic analysis, differing from other approaches that might emphasize neuroscience, psychology or philosophy. Emotion-as-Metaphor analyze emotions as metaphors, this work highlights the complex, abstract, and context-dependent nature of emotions, contrasting with views that simplify emotions as basic, universal, or strictly biological. Language-Cognition Interface investigates linguistic expressions and cognitive processes together providing a nuanced understanding of emotional construction, setting it apart from studies focusing solely on either language or cognition. Cross-Linguistic and Cross-Cultural Comparisons research likely examines variations in emotional metaphors across languages and cultures, demonstrating the importance of cultural and linguistic contexts in shaping emotional experiences.

This study differs from other research in respective ways: Neuroscientific and psychological studies often focus on emotional regulation, neural correlates, or emotional intelligence, whereas this work emphasizes metaphorical construction and linguistic expression.

Philosophical inquiries into emotions might explore normative aspects, emotional ontology, or moral implications, differing from the cognitive linguistic focus on metaphorical construction. Research in anthropology and sociology examines emotional cultures, social norms, and power dynamics, whereas this work delves into cognitive and linguistic mechanisms.

This study contributes to the development of cognitive linguistics by exploring emotional metaphors and their cognitive underpinnings. By highlighting metaphorical construction, this work enhances understanding of emotional complexity, nuance, and context-dependence. This research encourages exchange between cognitive linguistics, neuroscience, psychology, philosophy, anthropology, and sociology, fostering a more comprehensive understanding of emotions

3. Theoretical Framework

The study adopted Lakoff & Johnson (1980) Conceptual Metaphor Theory (CMT) and Varela et al (1991) Embodied Cognition theoretical framework. CMT posits that abstract concepts, including emotions, are understood through mappings from more concrete, sensorimotor experiences. Emotions are understood through metaphors that map abstract concepts onto physical experiences. Embodied Cognition emphasizes the role of bodily sensations and spatial orientation in shaping emotional experience. Emotions are grounded in sensory-motor experiences and metaphorical extensions.

Methodology

Data Collection:

Linguistic corpora:

- Texts (literary, poetic, and everyday language)
- Speeches
- Conversations
- Online forums and social media

Survey and questionnaire data:

- Emotional experience and perception
- Metaphorical language usage

This methodology provides a comprehensive framework for investigating the metaphorical construction of emotions from a cognitive linguistic perspective.

4. Data Presentation And Analysis

Metaphorical languages are linguistic systems that use metaphors to convey meaning and create vivid representations of abstract concepts, emotions, and ideas.

Types of Metaphorical Languages:

Conceptual Metaphor Language (CML): Maps abstract concepts onto physical experiences (e.g., “time is money”).

Poetic Metaphor Language (PML): Employs metaphors for aesthetic and creative purposes (e.g., “life is a journey”).

Symbolic Metaphor Language (CML): Utilizes symbols and metaphors to convey complex ideas (e.g., dreams, myths).

Metaphorical languages have characteristics:

Figurative language is a powerful tool used in literature, poetry, and everyday speech to convey meaning beyond the literal interpretation of words. Examples of common figurative language:

Metaphor: Comparison without “like” or “as”

- He is a tiger in the fight
- Life is a journey

Simile: Comparison using “like” or “as”

- He climbs like a monkey
- He sings as sweetly as a bird

Personification: Attributing human qualities to non-human entities

- The cloud spread her gentle blanket on us
- The walls have ears

Hyperbole: Exaggeration for emphasis

- I’m so famished!

Non-literal meanings are words or phrases where the meaning goes beyond the literal interpretation. Non-literal meanings add depth, nuance, and creativity to language, allowing us to convey complex ideas and emotions in engaging ways.

- “Break a leg” (good luck)
- “He’s a shining light” (inspirational person)
- “When in Rome, do as the Romans do” (adapt to local customs)
- “Ghost someone” (stop responding to messages)
- “Life is a puzzle” (life is complex)

Conceptual mapping is a versatile tool for visualizing complex information. By creating concept maps, you can uncover new insights, improve understanding, and enhance communication. It is used to organize, represent, and connect ideas, concepts, and information. Conceptual mapping illustrates how concept maps can be applied across various domains. Conceptual mappings are fundamental to Conceptual Metaphor Theory (CMT). Here are some examples:

Emotion Concepts: Anger is Heat:

- "He's boiling with rage."
- "She's burning with anger."
- "Temperatures are running high."
- Sadness is Darkness:
- "He's going through a dark time."
- "She's lost in the shadows."
- "A cloud of sadness hung over him."

Time Concepts:

Time is Money:

- "I spent time on that project."
- "Time is running out."
- "I invested time in my education."

Time is Movement:

- "We're moving forward in time."
- "The deadline is approaching."
- "We're falling behind schedule."

Relationship Concepts:

Love is a Journey:

- "We're on the same path."
- "Our love is at a crossroads."
- "We've reached a milestone."

Friendship is a Container:

- "We're in this together."
- "Our friendship is filled with laughter."
- "We've built a strong bond."

Abstract Concepts

Ideas are Objects:

- "I'm working on an idea."
- "That's a great concept."
- "Let's flesh out this notion."

Life is a Game:

- "Life's a challenge."
- "We're playing the game of life."
- "She's winning at life."

Cognitive Processes

Thinking is Seeing:

- "I see what you mean."
- "Let me clarify that."
- "It's clear to me now."

Understanding is Grasping:

- "I grasp the concept."
- "It's hard to get a handle on."
- "I've got it now."

These examples illustrate how conceptual metaphors shape our language, thought, and perception. They demonstrate how abstract concepts are understood through mappings from more concrete experiences.

Creative expression encompasses various forms of artistic communication. Creative expression can: Communicate emotions and ideas, challenge societal norms, inspire and educate, provide entertainment, and foster self-expression and identity. Examples:

Visual Arts- Painting (watercolor, oil, acrylic), Sculpture (clay, metal, wood)

Performing Arts- Music (instrumental, vocal), Dance (ballet, hip-hop), Storytelling

Literary Arts- Fiction (novels, short stories), Poetry, Creative nonfiction (memoirs, essays)

Music and Sound- Composition (classical, electronic), Songwriting, Instrumental performance

Movement and Dance- Hip-hop, Tap dance, Choreography

Film and Video- Narrative filmmaking, Documentary filmmaking, Animation, Experimental film

Crafts and Design- Fashion design, Textile art, Jewelry making, Woodworking, Ceramics

Digital Media- Video games, Virtual reality experiences, Digital installations, Web design

Cultural and contextual dependence refers to the idea that meanings, interpretations, and significance vary across cultures and contexts. Examples:

- Gestures: Thumbs up (approval in West, insult in Middle East)
- Colors: White (weddings in West, mourning in Asia)
- Food: Dog meat (acceptable in Korea, taboo in West)
- Holidays: Christmas (Christian celebration, secular in some cultures)
- Language: Idioms, proverbs, and slang (culture-specific)
- Historical context: Swastika (ancient symbol, Nazi association)
- Social context: Formal/informal language (varies by situation)
- Geographical context: Place names (different meanings in different regions)
- Temporal context: Slang terms (change over time)
- Technological context: Emojis (different meanings on different platforms)

Examples of Metaphorical Languages:

- Idioms (e.g., "kick the bucket" = 'to die')
- Proverbs (e.g., "a bird in the hand is worth two in the bush")
- Allegory (e.g., George Orwell's "Animal Farm")
- Mythological languages (e.g., Greek mythology)

- Sign languages (e.g., American Sign Language)

Semantic field is a network of words related to a specific concept, idea, or domain, sharing similar meanings, associations, or connotations. Types of Semantic Fields are:

- Lexical fields: Groups of words with similar meanings (e.g., words related to food)
- Associative fields: Words connected through associations (e.g., words related to happiness)
- Conceptual fields: Abstract concepts and their related words (e.g., time, space)

Semantic Fields have characteristics:

- Word relationships (synonyms, antonyms, hyponyms)
- Shared semantic features (meaning components)
- Network structure (center-periphery, hierarchical)
- Contextual dependence
- Cultural and linguistic variations

Examples of Semantic Fields:

- Emotions: Happiness (joy, cheer, delight), Sadness (grief, sorrow, melancholy)
- Food: Fruits (apple, banana, orange), Vegetables (carrot, broccoli, spinach)
- Transportation: Vehicles (car, bus, train), Travel (journey, trip, voyage)

Grammatical Structures are the rules and patterns governing the organization of words to convey meaning in language. Types of Grammatical Structures are:

- Phrase Structure: Organization of words into phrases (e.g., noun phrase, verb phrase)
- Clause Structure: Organization of phrases into clauses (e.g., independent, dependent)
- Sentence Structure: Organization of clauses into sentences (e.g., simple, compound)
- Morphological Structure: Internal organization of words (e.g., prefixes, suffixes)

Components of Grammatical Structures are:

- Verbs (tense, aspect, mood)
- Nouns (case, number, gender)
- Adjectives (attributes, predicate)
- Adverbs (manner, time, place)
- Preparations (location, direction)
- Conjunctions (coordination, subordination)

Grammatical Structures across languages:

- Word order (SVO, SOV, VSO)
- Case systems (nominative, accusative, ergative)
- Tense and aspect systems
- Mood and modality systems
- Polysynthesis

Here are some examples of grammatical structures:

Phrase Structure

Noun Phrase (NP): "The big red car"

- Determiner (The)
- Adjective (big, red)
- Noun (car)

Verb Phrase (VP): "Drives carefully"

- Verb (drives)
- Adverb (carefully)

Adjective Phrase (AdjP): "Very happy"

- Adverb (very)
- Adjective (happy)

Clause Structure

Independent Clause: "I went to the store"

- Subject (I)
- Verb (went)
- Object (to the store)

Dependent Clause: "Because I forgot my wallet"

- Subordinator (because)
- Subject (I)
- Verb (forgot)
- Object (my wallet)

Relative Clause: "The book, which is on the table"

- Antecedent (The book)
- Relative pronoun (which)
- Verb (is)
- Location (on the table)

Sentence Structure

Simple Sentence: "I like coffee"

- Subject (I)
- Verb (like)
- Object (coffee)

Compound Sentence: "I like coffee, but my brother prefers tea"

- Independent clause 1 (I like coffee)
- Conjunction (but)
- Independent clause 2 (my brother prefers tea)

Complex Sentence: "Although I'm tired, I'll finish this project"

- Subordinator (although)
- Dependent clause (I'm tired)
- Independent clause (I'll finish this project)

Morphological Structure

Prefix: "Unhappy" (un- + happy)

Suffix: "Happiness" (happy + -ness)

Compound: "Bookshelf" (book + shelf)

Grammatical Functions

Subject-Verb-Object (SVO) word order: "I (S) eat (V) an apple (O)"

Passive voice: "The ball was thrown by John"

- Subject (The ball)
- Verb (was thrown)
- Agent (by John)

Modal verbs: "You must try this cake"

- Modal verb (must)
- Main verb (try)
- Object (this cake)

The metaphorical construction of emotions from a cognitive linguistic perspective is a fascinating topic. Research has shown that emotion concepts are largely metaphorical and metonymic in nature. This means that we often use metaphors and metonyms to express and understand emotions. The findings show that: Emotion Concepts are Metaphorical in nature. Emotions are composed of conceptual metaphors, conceptual metonymies, related concepts, and cognitive models. Universality and Cultural Specificity shows that emotion metaphors can be universal, but their expression and interpretation vary across cultures. Embodiment involves emotion concepts which are grounded in embodied experiences, which influence their metaphorical construction. Domain Matrix involves emotion concepts that are linked to a network of concepts, forming a domain matrix that varies with context. Cognitive Linguistic Approach involves studying emotion metaphors which requires a combination of corpus linguistics and traditional intuitive methodology.

For instance, consider the concept of anger. We often use metaphors like "anger is heat" or "anger is a force" to describe and understand this emotion. These metaphors are not just linguistic devices but reflect our embodied experience of anger as a physiological and psychological response. Understanding the metaphorical construction of emotions can provide valuable insights into human emotionality, cognition, and language use. It highlights the complex and multifaceted nature of emotions and encourages a more nuanced approach to emotional understanding and communication.

Summary of Findings:

- Emotions are conceptualized as abstract, dynamic, and embodied experiences.
- Metaphors play a crucial role in shaping emotional concepts and language.
- Cognitive linguistic theories (e.g., Conceptual Metaphor Theory, Image Schema Theory) effectively explain emotional metaphorical constructions.
- Emotions are often metaphorized as:
 - Forces (e.g., "overwhelmed by grief")
 - Containers (e.g., "filled with joy")
 - Paths (e.g., "going through a tough time")
 - Entities (e.g., "lost my temper")
- Cross-linguistic and cross-cultural variations in emotional metaphors reveal diverse conceptualizations.
- Embodied experiences, cultural background, and linguistic context influence emotional metaphorical constructions.

5. Conclusion

This study demonstrates the vital role of metaphors in addressing the emotional understanding, highlighting the complex interplay between conceptual metaphors, embodied experience, and linguistic expression. By explaining the metaphorical construction of emotions, this research contributes to a deeper understanding of human emotionality and its linguistic and cultural manifestations.

Suggestions for Further Research:

Theoretical Developments:

- Integrate cognitive linguistics with other theoretical frameworks (e.g., psychology, neuroscience).
- Explore the relationship between metaphor, metonymy, and emotional construction.
- Develop more nuanced models of emotional conceptualization.

Empirical Investigations:

- Conduct cross-linguistic and cross-cultural studies on emotional metaphors.
- Investigate the role of metaphor in emotional regulation and expression.
- Analyze emotional metaphors in discourse, literature, and multimodal communication.

Methodological Advancements:

- Employ corpus linguistics and computational methods for large-scale metaphor analysis.
- Use experimental methods (e.g., priming, eye-tracking) to study emotional metaphor processing.
- Develop innovative techniques for collecting and analyzing emotional language data.

Applied Research:

- Investigate metaphorical constructions in emotional disorders (e.g., anxiety, depression).
- Develop metaphor-based interventions for emotional regulation and well-being.
- Explore the role of metaphor in emotional intelligence and empathy.

Interdisciplinary Collaborations:

- Cognitive science and neuroscience: Investigate neural correlates of emotional metaphor processing.
- Psychology: Examine the impact of metaphor on emotional experience and behavior.
- Anthropology: Study cultural variations in emotional metaphors and their implications.

Future Directions:

- Investigate the evolution of emotional metaphors over time.
- Explore the relationship between metaphor and emotional granularity.
- Develop a comprehensive cognitive linguistic theory of emotions.

By pursuing these research avenues, we can deepen our understanding of the metaphorical construction of emotions and its implications for human cognition, language, and culture.

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