

DOI: 10.21554/hrr.042407



# Need for Rational Thinking: Self-Identity and Social Intelligence of Indigenous Adolescence

Original scientific paper

## Nanthini Balu and Maya Rathnasabapathy

School of Social Sciences and Languages, Vellore Institute of Technology, Chennai, India

Received: 2023/09/14 Accepted: 2023/11/15

## **Abstract**

After Africa, India has been a home for many indigenous communities who are still untouched by modern lifestyle. In particular indigenous adolescence is the one with the least exposure to the external world. There is a huge gap between how indigenous adolescence perceives them and how they understand interpersonal relationship with the non-indigenous group. Even though Government takes many initiatives they still hesitate to come out their comfort-zone and lagging in interpersonal relationship with non-indigenous people. Results found that rationality indirectly mediates the relationship between self-identity and social intelligence. Adolescence's who are taught to think rationally are better able to assess events using facts and evidence, which allows them to respond appropriately with a deeper comprehension of the circumstances through reasoning. So, rational thinking helps to reduce perceptual bias, conflict resolution between their group likewise improves scientific thinking and effective communication of indigenous students. Indigenous researchers should develop intervention programs to improve their rational thinking, which helps to enhance their social intelligence and most importantly they believe their own ability to make wise decisions.

Keywords: Indigenous, Mediation, Rational thinking, Self-identity, Social intelligence

After Africa, India is one of the nations with most significant indigenous populations worldwide. 8.6% of India's population is made up of indigenous people, who are spread out over the nation's territory and varied geographical areas with over 10.2 million indigenous people (Kumar et al., 2020). Most of the tribal communities reside in forested or hill locations and have less exploration in the external group. Over a century has passed since psychology began to explore indigenous mental health. In particular, psychological research on rational thought in this field of study only recently started, and it should have paid more attention to individual differences (Stanovich, 2016). To reason is to choose reasonable goals, behave appropriately in light of one's

goals and beliefs, and maintain impressions that are reasonable with the available evidence. Although intelligence tests measure many significant aspects of thinking, they do not evaluate rational thought. Therefore, intelligence and at least some elements of rational thought are only weakly related. This statement applies to indigenous community who live in the separate settlement. Indigenous people live with their group in the forest area, which differs from non-tribal community. These communities are facing in-group and out-group conflict with others. Having biased thinking characteristic of rational cognition is notably unconnected to intelligence (Stanovich et al., 2013). This limited thinking plays a vital role when intergroup cooperation and coordination are

**Correspondence to:** Maya Rathnasabapathy, Associate Professor, School of Social Sciences and Languages, Vellore Institute of Technology, Chennai, India Email: maya.r@vit.ac.in

the objectives. These group commitments can also result in more problematic psychological tendencies.

Psychologists believe that identity is created via an individual's interaction with their environment (Jenkins, 2014; Sharma & Sharma, 2010). One factor potentially affecting students' risky behavior is their social identity. Due to individual differences, people sometimes behave differently in social circumstances. These unique variations referred to social intelligence in psychology literature. The ability to comprehend others and act intelligently about others is referred to as social intelligence, a term first used by Thorndike (1920) to explain human behavior. Self-identity defines a combination of factors, including identity, honesty, and individualistic framework, that emerges and changes the adaptability and reorientation in a dynamic context (Ahuja et al., 2019; Branje, 2022; Schneider, 2007; Schneider, et al., 2002). Identity plays a vital role during adolescence (Shulman et al., 2016; Verhoeven et al., 2019), and it the first step in developing one's identity is to examine all facets of who they are, including their beliefs (Banales et al., 2020; Leeuwen, 2022; Perner & Roessler, 2011), ideas, emotional state (Demmrich & Wolfradt, 2018; Hatano et al, 2022; Haviland et al., 1994), and behaviors (Pfeifer & Berkman, 2018; Barkley-Levenson & Galván, 2014).

Socialization was essential to identity formation during adolescence (Umaña-Taylor, et al., 2006). Identity and socialrelated factors play a vital role in the period of adolescence (Yamada, 2009). Previous studies also indicated that social-related factors such as social skills (Laksmiwati et al., 2022; Monika et al., 2021), Social presence (Zhan & Mei, 2013) and social awareness (Samuel, 2016) were positively associated with self. According to Pang (2020), a sense of belonging and social support is related to self-presentation. Indigenous people have a powerful sense of belonging to their particular group, especially adolescence in the stage of identity development. Studies found that the social intelligence of adolescence was significantly associated with study habits (Bhat & Khandai, 2016), academic class (Rani et al., 2019), and academic achievement (Isaac & Ikechukwu, 2019).

Many researchers considered rationality as a mediating factor of psychological variables (Ghorbani et al., 2016; Marshall et al., 2021).

Based on previous findings, researchers investigated indigenous adolescence' self-identity and social intelligence separately, but the association between indigenous self-identity and social intelligence has yet to be explored. Studies found that significant relationship between rationality and identity; Especially dimensions of rationality most characterize the identity (Branchetti, 2015) and rationality correlated to social intelligence (Burgoyne et al., 2022). Previous findings supported that rationality mediates the relationship between academic procrastination, life satisfaction and achievement (Balkis, 2013), mindfulness and dental anxiety associated with ration thinking (Yao et al., 2023). However, no previous studies examined the indirect effect of rationality in the association of selfidentity and social intelligence of indigenous adolescence.

## **Aim And Hypotheses**

This study investigates the association between self-identity and social-intelligence, and how that association mediates through rationality. Based on previous studies, the following three hypotheses framed with reference of Ramayah et al. (2016). There will be a significant difference in Self-identity and social-intelligence of indigenous students.

Rationality mediates the relationship between self-identity and social-intelligence. Self-identity has an indirect effect on social-intelligence through rationality.

### **Materials and Methods**

## **Participants**

Three hundred and eighty-four (384) indigenous adolescence from the Nilgiris district participated in this study (192 boys, 192 girls). The inclusion criteria are (a) Ages between 12 to 18 years; (b) participants belong to indigenous community (c) Informed consent obtained from the participants. Correspondingly, participants who did not volunteer for this study were excluded.

## Measures

Socio-demographic information about indigenous adolescence age, birth order, family type and gender were gathered for this study.

## **Self-Identity**

Participants' level of identity was assessed via 35 items Cheek and Briggs (2013) developed Aspects of Identity Questionnaire - IV used, which includes three subscales plus a set of "special" items such as 10 items of personal identity orientation, 7 items social identity orientation, 8 items collective identity orientation and 10 items of special items. Items are rated 5 points Likert scale ranging from 1 (not important to my sense of who I am) to 5 (Extremely important to my sense of who I am). The internal consistency with a Cronbach's alpha of .78 (Balkis, 2013). This study found the interreliability coefficient was  $\alpha = .71$ .

## **Tromso Social Intelligence Scale**

The 21 items self-report Tromso Social Intelligence Scale 7-points Likert scale developed by Silvera et al. (2001) consisted 3 factors such as Social information processing (SIP), Social skills (SS), and Social awareness (SS). Reliability coefficient found from 719 participants was .83.

# **Shortened General Attitude and Belief Scale**

To determine the rationality of the participants, Shortened General Attitude and Belief Scale (SGABS) developed by Lindner et al. (1999) was used. In this scale rationality dimensions are used to assess the rational thinking of the participants. In previous research, this shortened measure was found to correlate highly and significantly with the original version of the GABS (correlations for subscales ranged from .84 to .98). In addition, the SGABS has been found to be correlated with measures of trait anxiety and depression. The subscales of this measure were found to have moderate to high test-retest reliability and to have average levels of internal consistency Cronbach alpha values of .79 or greater.

## **Statistical Analysis**

Analysis was conducted by using version 26 of the Statistical Package of Social Sciences. Normal distribution was verified and found to be expected. Descriptive analysis was used to find out the mean, standard deviation (SD) and percentage of the socio-demographic data. Pearson correlation coefficient was performed to assess the associations between dimensions of self-identity, social intelligence and rationality. A smart PLS is used to inspect the mediating role of rationality in the association between self-identity and social intelligence.

Using hierarchical multiple regression, the hypotheses describing the relationship between the variables (i.e., selfidentity, social intelligence and rationality) and the mediating role of rationality were examined. The mediation model is becoming more and more common, and it plays a noteworthy impact in evolving knowledge in the field of social psychology and theory development (Bullock et al., 2010; Pieters, 2017; Wood et al., 2007) and also scholars from business, psychology and education have expressed their interest and special attention to this mediation effect (Memon et al., 2018; Rasoolimanesh et al., 2021). Descriptive statistics, Pearson correlation and multiple linear correlation analyses executed using SPSS version 26 software and mediation analysis was performed using Smart PLS software.

### **Ethical Consideration**

The researcher submitted the proposal with questionnaire, consent form and researcher contact information to obtain permission from the Ministry of tribal welfare department in Tamil Nadu. With permission from the Ministry of tribal welfare department, data were collected from indigenous adolescence in the Nilgiris. Participating was optional; one could opt out at any moment.

### Results

# Socio-Demographic Characteristics Of Descriptive Analysis

Descriptive analysis was used to analyze the participant's gender, family type, Father and mother's education and occupation in this study. A total of 394 indigenous adolescence (Boys - 49.1% and Girls 50.9%), with ages ranging from 12 to 19 years (Mean = 1.71; SD = 0.951). Most of the participant's parents completed schoollevel education (Mothers = 69.45; Fathers 71.1%). Furthermore, 68.8% of participants belong to the nuclear family (Mean = 1.31; SD = 0.465). The majority of the participant's parents working as coolie/daily wages (Mother = 68.2; Father = 76.3%).

# Description of Self-identity, Social Intelligence, and Rationality

The mean score of self-identity was 3.79, social intelligence was 4.44 and rationality was 3.78. The dimension

of unique identity has the lowest score compared to other dimensions; meanwhile, social identity dimension of social skill had the highest mean score compared to other scores.

## Self-Identity, Social Intelligence, Rationality And Socio-Demographic Variable

Results show that mean score of Female (4.50), Joint family (4.49), Indigenous adolescence, father who completed undergraduate (4.83), mother (Professional course) had more social intelligence compared to other variables. Compared to the father's occupation, mothers who worked in the public sector (4.67) had more social intelligence.

**Table 1**. *Relationship between self-identity, social intelligence and rationality* 

|                        | v                             |        | 0      |        | -      |        |        |        |   |
|------------------------|-------------------------------|--------|--------|--------|--------|--------|--------|--------|---|
| Constructs             | Variable                      | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8 |
| Self-identity          | Personal identity             | 1      |        |        |        |        |        |        |   |
|                        | Collective identity           | .277** | 1      |        |        |        |        |        |   |
|                        | Social identity               | .323** | .313** | 1      |        |        |        |        |   |
|                        | Special items                 | .321** | .502** | .388** | 1      |        |        |        |   |
| Social<br>intelligence | Social information processing | .058   | .006   | .069   | .116   | 1      |        |        |   |
|                        | Social awareness              | .013   | .007   | .150*  | .063   | .494** | 1      |        |   |
|                        | Social skills                 | .144   | .078   | .203** | .098   | .579** | .652** | 1      |   |
| Rationality            | Rationality                   | .233** | .348** | .242** | .245** | .287** | .188*  | .243** | 1 |
|                        |                               |        |        |        |        |        |        |        |   |

<sup>\*\*</sup>significant at .01 level and \*significant at .05 level.

Table 1 shows that bivariate analysis of the association between self-identity, =social intelligence, and rationality. Pearson correlation coefficient shows that self-identity dimension of personal identity is significantly associated with collective identity, social identity and rationality at a .01 level. Collective identity is significantly

related to social identity, special items and rationality at the .01 level. Social identity significantly associates with special items, social skills, and rationality at a .01 level. Meanwhile, social identity is positively associated with social awareness at a .05 level. Special items are significantly associated with rationality at the .01 level. Social information is associated with social

awareness, social skills and rationality at a .01 level. Social awareness is associated with social skills and rationality at a .01 level. Social skills are associated with rationality

at the .243 level. The mediating factor of rationality is significantly associated with dimensions of self-identity and social intelligence at the .01 level.

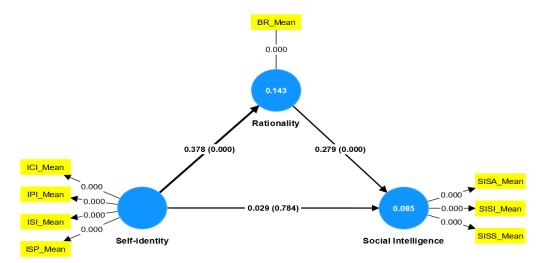
**Table 2.** *Indirect Effect of Rationality* 

| Steps | Path Effect   | Independent<br>variable (IV) | Dependent<br>Variable (DV) | Beta           | P value          |
|-------|---|------------------------------|----------------------------|----------------|------------------|
| 1     | Direct effect of self-identity on rationality           | Rationality                  | Self-identity              | 0.378          | 0.000            |
| 2     | Direct effect of rationality on social intelligence     | Rationality                  | Social intelligence        | 0.279          | 0.000            |
| 3     | Direct effect of self-identity on social intelligence   | Self-identity                | Social intelligence        | 0.029          | 0.000            |
| 4     | Indirect effect of self-identity on social intelligence | Self-identity<br>Rationality | Social intelligence        | 0.784<br>3.017 | $0.000 \\ 0.000$ |

Table 2 displays the mediating effect of rationality in the relationship between self-identity and social intelligence by using SmartPLS (Ringle et al., 2022). The predictor variable of self-identity, the independent

variable was social intelligence and the mediating variable was rationality. Multiple regression was conducted to find out the mediating effect of rationality.

**Figure 1.**Path analysis of Rationality as a mediator in the association between self-identity and social intelligence



The first test of rationality was regressed on self-identity. Because, dimensions of self-identity significantly related to rationality. Results show that rationality is to be regressed on self-identity (beta = .378, p = .001). Secondly, Social intelligence was regressed on rationality. Since gender, type of family, education, and occupation of the participant's parents are associated significantly with social

intelligence. Findings show that social intelligence was significantly regressed on rationality (beta = .279, p = .001). Third self-identity was significantly regressed on social intelligence (beta = .029, p = .001). Finally, social intelligence was significantly regressed on rationality (beta = .784, p = .001) and self-identity (mean = 3.017, p = .001), respectively.

#### **Discussion**

Rationality mediates the relationship between the dimensions of self-identity and social intelligence. Therefore, the results supported to our hypotheses. Self-identity is a collective term that includes a sense of belonging in the social group to identify with the community (Ashmore et al., 2004). Especially people from indigenous groups had strong self-identity towards their social group (Powers & Sakaguchi, 2006). Previous studies found that adolescence's fundamental factor of self-identity significantly correlated to an individual's psychological integrity, mental health, and stability. In growing research in social psychology, identity in adolescence has been positively associated with life satisfaction (Diener et al., 2018). cultural identity, social and emotional wellbeing (Fatima et al., 2022). The finding regarding the relationship between self-identity and social intelligence is similar to earlier studies (Falahi et al., 2020), which supported a self-identity dimension of social identity positively associated to social skills and awareness of the social intelligence dimensions. A person's interpersonal and social ties with other people are strengthened by social intelligence since it has positive and constructive aspects and functions. However, social awareness is the element of social intelligence that promotes proper behaviors in social settings and is a vital component in those with high social intelligence. People will feel more powerful and empowered and hence more socially trusted if they develop their social identities and make more social connections. Due to their interactions with society and increased knowledge and awareness of the community, these individuals feel more confident and are less apprehensive about joining it. On the other side, students who have not developed their social identities feel less optimistic due to apprehension about living in the social community and not understanding the community, as well as potentially a sense of helplessness in the face of potential issues. Of course, the contrary interpretation of this relationship is also possible. In other words, those who feel more trustworthy engage with society more and have stronger social identities. However, the wellspring of meaning and experience

for people is their identity. Although each

person may have multiple identities, the fact that these identities are all the same in society creates a solid foundation for social trust. Membership in social groupings is the source of social identity. According to certain studies, a person can have a social identity in addition to a global identity; these identities do not necessarily conflict with one another but can work together. And move in the direction of society's advancement (Akdemir, 2018; Thomas, 2019; Vincent Ponroy et al., 2019).

Lone and Khan (2018) also found that indigenous adolescence exhibit less patience while acting under pressure because of the social environment in which they have grown up, conditioning them for such action. Indigenous pupils are less cooperative, less able to communicate with one another amicably, and less able to consider all sides of an issue. The indigenous students lack self- and other confidence. They are less cooperative since it is difficult to believe what they do is proper or wrong (Acharya & Kshatriya, 2014). Due to less exploration of the outside world and maximum support and pampering of their family, we found no relationship between personal and collective identity and dimensions of social intelligence.

Meanwhile, Social identity of indigenous adolescence was significantly associated to social awareness and social skills of social intelligence dimensions. These findings also supported that social identity of students related considerably to social intelligence (Mikaeili & Ahmadi, 2022). As previously mentioned no relationship between personal and collective identity to social intelligence but through rationality there is an association between self-identity and social intelligence. Our findings also supported that rationality mediates the relationship between self-identity and social intelligence. Studies found no association between self-identity and social intelligence, but experiencing rational thinking positively impacts the association between selfidentity and social intelligence of indigenous adolescence. The cognitive component of rationality mediates the relationship between the psychological element of self-identity and sociological part of social intelligence. According to Evans and Stanocich (2013), intelligence is a hallmark rationality behavior and plays a vital role in intelligence. Our

results also found that a positive association between rationality and social intelligence. Alexander (2000) supported a strong positive association between rationality and social intelligence. Furthermore, our findings showed that, a positive association between rationality and social intelligence. Branchetti (2015) studies show that rationality associate to identity determinants. Indigenous adolescence with rational thinking leads to impact their self-identity. Having specific thought like rationality may influence helps to understand them and resolve interpersonal conflicts (Baron, 2020; Hopkins & Kahani-Hopkins, 2004; Rafique et al., 2020). Our findings also specified that self-identity indirectly affects the social intelligence through the mediator of rationality.

### Limitations

As our sample was focused on indigenous adolescence, this limited our applicability to other age-group indigenous populations. Future research should conduct the study with age group indigenous community. The research area of this study is in the Nilgiris, future research could aim at state and country-level indigenous populations to improve the representation of the indigenous community. We recommended longitudinal studies for indigenous adolescence so that we can explore their identity through their social connections.

### **Conclusion**

This study explores the mediating role of rationality in the association between self-identity and social intelligence among indigenous adolescence. Findings supported the hypothesized structural model, indicating that rationality partiality mediates the relationship between self-identity and social intelligence. Rationality is an important cognitive component that improves social intelligence. Indigenous adolescence have a strong identity towards their social community, but they would not socialize with other community people. So, their identity did not impact their social intelligence. But with the help of rationality, indigenous people change their perspective toward society, creating high social intelligence levels. Indigenous psychology researcher should thoroughly understand their way of life so that government, Non-Government Organizations (NGOs) and policymakers may implement the rational thinking-based program.

# Acknowledgement

The Ministry of Tribal Welfare Department in Tamil Nadu gave permission to initiate data collection. The author gratefully acknowledges The Director, of the Tribal Research Centre, Ooty provided indigenous details and support to collect data in the Nilgiris.

## **Conflict of Interest**

The authors declare no conflict of interest.

### References

- Ahuja, S., Natalia, N., & Clegg, S. (2019). Professional Identity and Anxiety in Client-Architect Interactions. *Construction Management and Economics*, *38*(1), 1–14. https://doi.org/10.1080/01446193.2019.1703019
- Akdemir, N. (2018). Visible Expression of Social Identity: The Clothing and Fashion. *Gaziantep University Journal of Social Sciences*; *17*(4), 1389–1397. https://doi.org/10.21547/jss.411181
- Alexander, R. E. (2000). Rationality Revisited: Planning Paradigms in a Post-Postmodernist Perspective. *Journal of Planning Education and Research*, 19(3), 242–256. doi: 10.1177/0739456X0001900303
- Ashmore, R. D., Deaux, K., & McLaughlin-Volpe, T. (2004). An organizing framework for collective identity: articulation and significance of multidimensionality. *Psychological bulletin*, 130(1), 80–114. https://doi.org/10.1037/0033-2909.130.1.80
- Balkis, M. (2013). Academic procrastination, academic life satisfaction and academic achievement: The mediation role of rational beliefs about studying. *Journal of Cognitive and Behavioral Psychotherapies*, *13*(1), 57–74. https://psycnet.apa.org/record/2013-13923-004
- Banales, J., Hoffman, A. J., Rivas-Drake, D., & Jagers, R. J. (2020). The Development of Ethnic-

- Racial Identity Process and Its Relation to Civic Beliefs among Latinx and Black American Adolescents. *Journal of youth and adolescence*, 49(12), 2495–2508. https://doi.org/10.1007/s10964-020-01254-6
- Barkley-Levenson, E., & Galván, A. (2014). Neural representation of expected value in the adolescent brain. *Proceedings of the National Academy of Sciences of the United States of America*, 111(4), 1646–1651. https://doi.org/10.1073/pnas.1319762111
- Baron, J. (2020). Religion, Cognitive style and rational thinking. *Current Opinion in Behavioral Sciences*, *34*, 64–68. doi: 10.1016/J. Cobeha.2019.12.015.
- Bhat, Y. I., & Khandai, H. (2016). Social Intelligence, Study Habits and Academic Achievements of College Students of District Pulwama. *Research* on *Humanities and Social Sciences*, 6(7), 35– 41. https://iiste.org/Journals/index.php/RHSS/ article/view/30271
- Branchetti, L. (2015). Teaching and learning mathematics. Some past and current approaches to mathematics education. Isonomia epistemological. https://isonomia.uniurb.it/teaching-and-learning-mathematics-some-past-and-current-approaches-to-mathematics-education/
- Branje, S. (2022). Adolescent identity development in context. *Current opinion in psychology*, 45, 101286. https://doi.org/10.1016/j.copsyc.2021.11.006
- Bullock, J. G., Green, D. P., & Ha, S. E. (2010). Yes, but what's the mechanism? (don't expect an easy answer). *Journal of Personality and Social Psychology*, *98*(4), 550–558. https://doi.org/10.1037/a0018933
- Burgoyne, P.A. Mashburn, C. A., Tsukahara, J. S., & Engle, R.W. (2022). Attention control and process overlap theory: Searching for cognitive processes underpinning the positive manifold. *Intelligence*, *91*. 101629. https://doi.org/10.1016/j.intell.2022.101629
- Cheek, J. M., & Briggs, S. R. (2013). Aspects of Identity Questionnaire (AIQ-IV). Measurement Instrument Database for the Social Science. http://academics.wellesley.edu/Psychology/Cheek/aiq\_iii.html
- Demmrich, S., & Wolfradt, U. (2018). Personal Rituals in Adolescence: Their Role in Emotion Regulation and Identity Formation. *Journal of Empirical Theology, 31*(2), 217–238. https://ixtheo.de/Record/1683819934
- Diener, E., Oishi, S., & Tay, L. (2018). Advances in subjective well-being research. *Nature human behaviour*, 2(4), 253–260. https://doi.org/10.1038/s41562-018-0307-6
- Evans, J. S., & Stanovich, K. E. (2013). Dual-Process

- Theories of Higher Cognition: Advancing the Debate. *Perspectives on psychological science: a journal of the Association for Psychological Science*, 8(3), 223–241. https://doi.org/10.1177/1745691612460685
- Falahi, Z., Afjeh, Z. S. & Entezar, R. K. (2020). The model of social trust based on social intelligence, social identity, and social isolation based on the moderating role of gender and family economic status on Senior high school students in Tehran. *Iranian journal of educational Sociology*, *3*(1), 106–118. doi: 10.52547/ijes.3.1.106
- Fatima, Y. et al. (2022). Cultural Identity and Social and Emotional Wellbeing in Aboriginal and Torres Strait Islander Children. In: J. Baxter, J. Lam, J. Povey, R. Lee & S. R. Zubrick (Eds.), Family Dynamics over the Life Course. Life Course Research and Social Policies, vol 15. (pp. 57–70). Cham: Springer. https://doi.org/10.1007/978-3-031-12224-8 4
- Ghorbani, Z., Malekzadeh, G., & Khorakian, A. (2016). The Mediating Role of Rational and Intuitive Decision-Making Styles of Managers on the Relationship between Emotional Intelligence and Innovative Behaviors. *Organizational Behaviour Studies Quarterly*, 5(2), 51–84. http://obs.sinaweb.net/article\_21903.html
- Hatano, K., Luyckx, K., Hihara, S., Sugimura, K., & Becht, A. I. (2022). Daily Identity Processes and Emotions in Young Adulthood: a Five-Day Daily-Diary Method. *Journal of youth and adolescence*, *51*(9), 1815–1828. https://doi.org/10.1007/s10964-022-01629-x
- Haviland, J. M., Davidson, R. B., Ruetsch, C., Gebelt, J. L., & Lancelot, C. (1994). The place of emotion in identity. *Journal of Research on Adolescence*, 4(4), 503–518. https://doi.org/10.1207/s15327795jra0404 4
- Hopkins, N., & Kahani-Hopkins, V. (2004). Identity construction and British Muslims' political activity: beyond rational actor theory. *The British journal of social psychology*, 43(Pt 3), 339–356. https://doi.org/10.1348/0144666042037935
- Isaac.E.O. & Ikechukwu, I.K. (2019). Social Intelligence and Academic Achievement of Students in Selected Senior Secondary Schools in Rivers State. International Journal of Social Sciences and Humanitie. 7(2), 93-100. https://www.researchgate.net/publication/343135749\_Social\_Intelligence\_and\_Academic\_Achievement\_of\_Students\_in\_Selected\_Senior\_Secondary\_Schools\_in\_Rivers\_State.
- Jenkins, R. (2014). *Social Identity* (4th ed.). London: Routledge. https://doi. org/10.4324/9781315887104
- Kumar, M. M., Pathak, V. K., & Ruikar, M. (2020). Tribal population in India: A public health challenge and road to future. *Journal of family medicine*

- *and primary care*, *9*(2), 508–512. https://doi. org/10.4103/jfmpc.jfmpc 992 19
- Laksmiwati, H., Rusijono, Mariono, A., & Arianto, F. (2022). The Relationship of Social Skills to Self-Efficacy in Second Year Students. *International Journal of Social Science and Human Research*, 5(11), 5087–5090. doi: 10.47191/ijsshr/v5-i11-37
- Leeuwen N. V. (2022). Two Concepts of Belief Strength: Epistemic Confidence and Identity Centrality. *Frontiers in psychology*, *13*, 939949. https://doi.org/10.3389/fpsyg.2022.939949
- Lindner, H., Kirkby, R., Wertheim, E., & Birch, P. (1999). A Brief Assessment of Irrational Thinking: The Shortened General Attitude and Belief Scale. *Cognitive Therapy and Research*, 23(6), 651–663. https://doi.org/10.1023/A:1018741009293
- Lone, M. M., & Khan, M. A. (2018). A Comparative Study of Social Intelligence of Tribal and Non-Tribal Students of Kashmir. *International Journal of Creative Research Thoughts*, 6(1), 1522–1531. https://ijcrt.org/papers/IJCRT1801205.pdf
- Marshall, T., Keville, S., Cain, A., & Adler, J. R. (2021)
  On being open-minded, wholehearted, and responsible: a review and synthesis exploring factors enabling practitioner development in reflective practice. Reflective Practice 22:6, pages 860-876. https://doi.org/10.1080/14623 943.2021.1976131
- Memon, A. M., Sharma, S. G., Mohite, S. S., & Jain, S. (2018). The role of online social networking on deliberate self-harm and suicidality in adolescence: A systematized review of literature. *Indian journal of psychiatry*, 60(4), 384–392. https://doi.org/10.4103/psychiatry. IndianJPsychiatry 414 17
- Mikaeili, N., & Ahmadi, S. (2022). The role of social identity and social intelligence in predicting tendency in Students High-risk behaviour. *Journal of School Psychology*, *II*(3), 98–107. 10.22098/JSP.2022.1796
- Monika., Meenaxi., Priyanka., & Asha. (2021). A comparative study of self-concept and social skills of secondary school students. *International Journal of Multidisciplinary Research and Development*, 8(10), 61–63. file:///C:/Users/Toshiba/Downloads/8-10-23-4731%20(1).pdf
- Acharya, S. K. & Kshatriya, G.K. (2014). Social Transformation, Identity of Indian Tribes in Recent Time: An Anthropological Prospective. *Afro Asian Journal of Anthropology and Social Policy*, 5(2), 73–88. doi: 10.5958/2229-4414.2014.00008.8
- Pang, H. (2020). Examining associations between university students' mobile social media use,

- online self-presentation, social support and sense of belonging. *Aslib Journal of Information Management*, 72(3), 321–338. https://doi.org/10.1108/AJIM-08-2019-0202
- Perner, J., & Roessler, J. (2012). From infants' to children's appreciation of belief. *Trends in cognitive sciences*, *16*(10), 519–525. https://doi.org/10.1016/j.tics.2012.08.004
- Pfeifer, J. H., & Berkman, E. T. (2018). The Development of Self and Identity in Adolescence: Neural Evidence and Implications for a Value-Based Choice Perspective on Motivated Behavior. *Child development perspectives*, *12*(3), 158–164. https://doi.org/10.1111/cdep.12279
- Pieters, R. (2017). Meaningful Mediation Analysis: Plausible Causal Inference and Informative Communication. *Journal of Consumer Research*, 44, (3), 692–716, https://doi.org/10.1093/jcr/ucx081
- Powers, J. M. & Sakaguchi, R. L. (2006) Craig's Restorative Dental Materials. 12th Edition. Missouri: Mosby, 386-393. https://www.scirp. org/(S(351jmbntvnsjt1aadkozje))/reference/ referencespapers.aspx?referenceid=1969964
- Rafique, N., Al-Asoom, L. I., Alsunni, A. A., Saudagar, F. N., Almulhim, L., & Alkaltham, G. (2020). Effects of Mobile Use on Subjective Sleep Quality. *Nature and science of sleep*, *12*, 357–364. https://doi.org/10.2147/NSS.S253375.
- Ramayah, T., Cheah, J., Chuah, F., Ting, H., & Memon, M. A. (2016). Partial least squares structural equation modeling (PLS-SEM) using SmartPLS 3.0: An updated and practical guide to statistical analysis. Singapore: Pearson.
- Rani, M., Sangwan, S., Deepika & Sumit. (2019). The relationship between dimensions of social intelligence and academic class among adolescent. *International Journal of Home Science* 5(3), 159–161. https://www.homesciencejournal.com/archives/2019/vol5issue3/PartC/5-3-44-462.pdf
- Rasoolimanesh S. M., Sehfi, S., Rastegar, R., & Hall, C. M. (2021). Destination image during the COVID-19 pandemic and future travel behavior: The moderating role of past experience. *Journal of Destination Marketing & Management, 21.* https://doi.org/10.1016/j.jdmm.2021.100620.
- Ringle, C. M., Wende, S., & Becker, J.-M. (2022). SmartPLS 4. Oststeinbek: SmartPLS. https://www.smartpls.com
- Schneider, L. B. (2007). Personal, Gender and Professional Identity: Theory and Methods of Diagnosis. Moscow: Psychological-Social Institute, pp. 68–87.
- Schneider, L. B., Volnova, G.V., & Zykova, M. N. (2002). Psychological Counseling: A Manual for

- University Students Enrolled in Psychological Specialties. Moscow: Izhytsa, pp. 93–115.
- Sharma, S., & Sharma, M. (2010). Self, social identity and psychological well-being. *Psychological Studies*, *55*, 118–136. https://doi.org/10.1007/s12646-010-0011-8
- Shulman, E. P., Smith, A. R., Silva, K., Icenogle, G., Duell, N., Chein, J., & Steinberg, L. (2016). The dual systems model: Review, reappraisal, and reaffirmation. *Developmental cognitive neuroscience*, 17, 103–117. https://doi.org/10.1016/j.dcn.2015.12.010
- Silvera, D. H., Martinussen, M., & Dahl, T. I. (2001). The Tromsø Social Intelligence Scale, a self-report measure of social intelligence. *Scandinavian journal of psychology*, *42*(4), 313–319. https://doi.org/10.1111/1467-9450.00242
- Stanovich, K. E., West, R. F., & Toplak, M. E. (2013). Myside bias, rational thinking, and intelligence. *Current Directions in Psychological Science*, 22(4), 259–264. https://doi.org/10.1177/0963721413480174
- Stanovich, K. E. (2016). The Comprehensive Assessment of Rational Thinking, *Educational Psychologist*, 51(1), 23-34. https://doi.org/10.1080/0046152 0.2015.1125787
- Thomas, N. (2019). Identity, Difference, and Social Technology. In: J. Hunsinger, M. Allen, L. Klastrup. (Eds.) *Second International Handbook of Internet Research*. (pp. 995–1009). Dordrecht: Springer. https://doi.org/10.1007/978-94-024-1555-1 68
- Thorndike, E. L. (1920). The reliability and significance of tests of intelligence. *Journal of Educational Psychology, 11*(5), 284–287. https://doi.org/10.1037/h0074443
- Udo, S. D., & Ukpong, O. U. (2016). Influence of Self and Social Awareness on Business Education Students' Academic Performance in Federal Universities in South-South, Nigeria. *International Journal of Education, Learning and Development 4*(6), 1-8. https://eajournals.org/ijeld/vol-4-issue-5-july-2016/influence-

- self-social-awareness-business-educationstudents-academic-performance-federaluniversities-south-south-nigeria/
- Umaña-Taylor, A. J., Bhanot, R., & Shin, N. (2006). Ethnic Identity Formation During Adolescence: The Critical Role of Families. *Journal of Family Issues*, 27(3), 390–414. https://doi.org/10.1177/0192513X05282960
- Verhoeven, M., Poorthuis, A. M. G. & Volman, M. (2019). The Role of School in Adolescents' Identity Development. A Literature Review. *Educational Psychology Review 31*, 35–63. https://doi.org/10.1007/s10648-018-9457-3
- Vincent Ponroy, J., Lê, P., & Pradies, C. (2019). In a Family Way? A model of family firm identity maintenance by non-family members. *Organization Studies*, 40(6), 859–886. https://doi.org/10.1177/0170840619836707
- Wood, A., Shukla, A., Schneider, J., Lee, J. S., Stanton, J. D., Dzuiba, T., Swanson, S. K., Florens, L., Washburn, M. P., Wyrick, J., Bhaumik, S. R., & Shilatifard, A. (2007). Ctk complex-mediated regulation of histone methylation by COMPASS. *Molecular and cellular biology*, 27(2), 709–720. https://doi.org/10.1128/MCB.01627-06
- Yamadha, H. (2009). Japanese Children's Reasoning about Conflicts with Parents. *Social development,* 18(4), 962–977. https://doi.org/10.1111/j.1467-9507.2008.00492.x
- Yao, J., Carciofo, R., & Pan, L. (2023). Rational thinking as a mediator of the relationship between mindfulness and dental anxiety. *Scientific reports*, *13*(1), 3104. https://doi.org/10.1038/s41598-023-28879-4
- Zhan, Z., & Mei, H. (2013). Academic self-concept and social presence in face-to-face and online learning: Perceptions and effects on students' learning achievement and satisfaction across environments. *Computers & Education*, 69, 131–138. https://doi.org/10.1016/j.compedu.2013.07.002.