

# **¡Mejor ordenar tus emociones! un estudio comparativo entre medidas ordinales y dimensionales de estados afectivos en personas con TEA.**

Canziani, Veronica Paula, Fornasier, Cloe y D'Amelio, Tomas.

Cita:

Canziani, Veronica Paula, Fornasier, Cloe y D'Amelio, Tomas (2019). *¡Mejor ordenar tus emociones! un estudio comparativo entre medidas ordinales y dimensionales de estados afectivos en personas con TEA. XI Congreso Internacional de Investigación y Práctica Profesional en Psicología. XXVI Jornadas de Investigación. XV Encuentro de Investigadores en Psicología del MERCOSUR. I Encuentro de Investigación de Terapia Ocupacional. I Encuentro de Musicoterapia. Facultad de Psicología - Universidad de Buenos Aires, Buenos Aires.*  
Dirección estable: <https://www.aacademica.org/000-111/303>

ARK: <https://n2t.net/ark:/13683/ecod/bSm>

# ¡MEJOR ORDENAR TUS EMOCIONES! UN ESTUDIO COMPARATIVO ENTRE MEDIDAS ORDINALES Y DIMENSIONALES DE ESTADOS AFECTIVOS EN PERSONAS CON TEA

Canziani, Verónica Paula; Fornasier, Cloe; D'Amelio, Tomas  
Universidad de Buenos Aires. Argentina

## RESUMEN

La búsqueda de métodos confiables que permitan medir experiencias afectivas subjetivas es una problemática que ha dado lugar al surgimiento de múltiples modelos de autorreporte de estados afectivos. Ahondar en la confiabilidad de estos modelos para el estudio de la experiencia afectiva en sujetos con TEA es esencial para una mayor comprensión de sus capacidades y dificultades en este campo. El presente trabajo analiza cuáles son las medidas posibles de autorreporte de estados emocionales presentes en la literatura dentro del campo de las ciencias afectivas. A su vez, se propone una posible comparación entre medidas ordinales y dimensionales de autorreporte a partir de métricas de confiabilidad (e.g. test-retest). Se espera encontrar una mayor confiabilidad por parte de las tareas que emplean modelos ordinales de autorreporte en comparación con modelos dimensionales, teniendo en cuenta distintas ventajas metodológicas que presenta el primero en comparación con el segundo en cuanto a la conceptualización de los estados afectivos. Se estima así mejorar la comprensión de los estados afectivos de personas con TEA a partir de la inclusión de modelos de autorreporte de emociones con mayor confiabilidad y consistencia para esta población.

## Palabras clave

Emociones - TEA - Autorreporte - Ordinal - Dimensional

## ABSTRACT

IT'S BETTER WITH RANKS! A COMPARATIVE STUDY OF ORDINAL AND DIMENSIONAL MEASURES OF AFFECTIVE STATES IN INDIVIDUAL WITH ASD

The search for reliable methodologies that measure subjective affective experiences is a problematic subject that has lead to the development of multiple models of self report of affective states. Further analyzing the reliability of these methods for the study of affective experience in subjects with ASD is essential for a deeper comprehension of their capacities as well as difficulties in this field. The present study focuses on analyzing the possible measures of self report of affective states present

in the current literature within the field of affective sciences. It also strives to offer a possible comparison between ordinal and dimensional measures of self report, based on reliability metrics such as test-retest. Greater consistency and reliability is expected from the use of ordinal measures of self report when compared against dimensional models, taking into consideration the methodological advantages of the ordinal models concerning the conceptualization of affective states. Consequently, a greater comprehension of affective states in individuals with ASD is expected to be achieved through the incorporation of more reliable models of self report.

## Key words

Emotions - ASD - Self report - Ordinal - Dimensional

## BIBLIOGRAFÍA

- Bagby, R.M., Parker, J.D.A., & Taylor, G.J. (1994a). The twentyitem Toronto Alexithymia Scale-I. Item selection and crossvalidation of the factor structure. *Journal of Psychosomatic Research*, 38, 23-32.
- Bagby, R.M., Taylor, G.J., & Parker, J.D.A. (1994b). The twentyitem Toronto Alexithymia Scale-II. Convergent, discriminant, and concurrent validity. *Journal of Psychosomatic Research*, 38, 33-40.
- Berthoz, S., & Hill, E.L. (2005). The validity of using self-reports to assess emotion regulation abilities in adults with autism spectrum disorder. *European psychiatry*, 20(3), 291-298.
- Bird, G., & Cook, R. (2013). Mixed emotions: the contribution of alexithymia to the emotional symptoms of autism. *Translational psychiatry*, 3(7), e285.
- Bölte, S., Feineis-Matthews, S., & Poustka, F. (2008). Brief report: Emotional processing in high-functioning autism-physiological reactivity and affective report. *Journal of Autism and Developmental Disorders*, 38(4), 776-781.
- Bradley, M.M., & Lang, P.J. (1994). Measuring emotion: the self-assessment manikin and the semantic differential. *Journal of behavior therapy and experimental psychiatry*, 25(1), 49-59.
- Cook, R., Brewer, R., Shah, P., & Bird, G. (2013). Alexithymia, not autism, predicts poor recognition of emotional facial expressions. *Psychological science*, 24(5), 723-732.

- Diener, E., Smith, H., & Fujita, F. (1995). The personality structure of affect. *Journal of personality and social psychology*, 69(1), 130.
- Ekman, P. (1992). An argument for basic emotions. *Cognition & emotion*, 6(3-4), 169-200.
- El Kaliouby, R., Picard, R., & Baron-Cohen, S. (2006). Affective computing and autism. *Annals of the New York Academy of Sciences*, 1093(1), 228-248.
- Erbas, Y., Ceulemans, E., Boonen, J., Noens, I., & Kuppens, P. (2013). Emotion differentiation in autism spectrum disorder. *Research in Autism Spectrum Disorders*, 7(10), 1221-1227.
- Fitzgerald, M., & Bellgrove, M.A. (2006). The overlap between alexithymia and Asperger's syndrome. *Journal of autism and developmental disorders*, 36(4), 573.
- Hill, E., Berthoz, S., & Frith, U. (2004). Brief report: Cognitive processing of own emotions in individuals with autistic spectrum disorder and in their relatives. *Journal of autism and developmental disorders*, 34(2), 229-235.
- Irrazabal, N., Aranguren, M., Zaldua, E., & Di Giuliano, N. (2015). Datos normativos del Sistema Internacional de Imágenes Afetivas (IAPS) en una muestra argentina. *Revista Argentina de Ciencias del Comportamiento (RACC)*, 7(3), 34-50.
- Jack, R.E., Crivelli, C., & Wheatley, T. (2018). Data-driven methods to diversify knowledge of human psychology. *Trends in cognitive sciences*, 22(1), 1-5.
- Jones, C.R., Pickles, A., Falcaro, M., Marsden, A.J., Happé, F., Scott, S.K., ... & Simonoff, E. (2011). A multimodal approach to emotion recognition ability in autism spectrum disorders. *Journal of Child Psychology and Psychiatry*, 52(3), 275-285.
- Keltner, D. (2019). Toward a consensual taxonomy of emotions. *Cognition and Emotion*, 1-6.
- Lang, P.J., & Greenwald, M.K. (1988). The international affective picture system standardization procedure and initial group results for affective judgments. *Center for Research in Psychophysiology, University of Florida: Gainesville, FL*.
- Lang, P.J., Bradley, M.M., & Cuthbert, B.N. (2008). *International affective picture system (IAPS): affective ratings of pictures and instruction manual*. University of Florida, Gainesville. Tech Rep A-8.
- Louwerse, A., Tulen, J.H., van der Geest, J.N., van der Ende, J., Verhulst, F.C., & Greaves-Lord, K. (2014). Autonomic responses to social and nonsocial pictures in adolescents with autism spectrum disorder. *Autism Research*, 7(1), 17-27.
- Mazurek, M.O. (2013). Social media use among adults with autism spectrum disorders. *Computers in Human Behavior*, 29(4), 1709-1714.
- Mathersul, D., McDonald, S., & Rushby, J.A. (2013). Automatic facial responses to affective stimuli in high-functioning adults with autism spectrum disorder. *Physiology & behavior*, 109, 14-22.
- Melhart, D., Sfikas, K., Giannakakis, G., Yannakakis, G.N., & Liapis, A. (2018). A Study on Affect Model Validity: Nominal vs Ordinal Labels. In *Proceedings of the IJCAI workshop on AI and Affective Computing*.
- Metallinou, A., & Narayanan, S. (2013, April). Annotation and processing of continuous emotional attributes: Challenges and opportunities. In *2013 10th IEEE international conference and workshops on automatic face and gesture recognition (FG)* (pp. 1-8). IEEE.
- Picard, R.W. (2000). *Affective computing*. MIT press.
- Peirce, J., Gray, J.R., Simpson, S., MacAskill, M., Höchenberger, R., Sogo, H., ... & Lindeløv, J.K. (2019). PsychoPy2: Experiments in behavior made easy. *Behavior research methods*, 1-9.
- Poria, S., Cambria, E., Bajpai, R., & Hussain, A. (2017). A review of affective computing: From unimodal analysis to multimodal fusion. *Information Fusion*, 37, 98-125.
- Rieffe, C., Terwogt, M.M., & Kotronopoulou, K. (2007). Awareness of single and multiple emotions in high-functioning children with autism. *Journal of autism and developmental disorders*, 37(3), 455-465.
- Russo-Ponsaran, N.M., McKown, C., Johnson, J.K., Allen, A.W., Evans-Smith, B., & Fogg, L. (2015). Social-Emotional Correlates of Early Stage Social Information Processing Skills in Children With and Without Autism Spectrum Disorder. *Autism Research*, 8(5), 486-496.
- Samson, A.C., Huber, O., & Gross, J.J. (2012). Emotion regulation in Asperger's syndrome and high-functioning autism. *Emotion*, 12(4), 659.
- Sasson, N.J., Dichter, G.S., & Bodfish, J.W. (2012). Affective responses by adults with autism are reduced to social images but elevated to images related to circumscribed interests. *PLoS one*, 7(8), e42457.
- Scherer, K. R. (2005). What are emotions? And how can they be measured?. *Social science information*, 44(4), 695-729.
- Shalom, D.B., Mostofsky, S.H., Hazlett, R.L., Goldberg, M.C., Landa, R.J., Faran, Y., ... & Hoehn-Saric, R. (2006). Normal physiological emotions but differences in expression of conscious feelings in children with high-functioning autism. *Journal of autism and developmental disorders*, 36(3), 395-400.
- Silani, G., Bird, G., Brindley, R., Singer, T., Frith, C., & Frith, U. (2008). Levels of emotional awareness and autism: an fMRI study. *Social neuroscience*, 3(2), 97-112.
- Tseng, A., Bansal, R., Liu, J., Gerber, A. J., Goh, S., Posner, J., ... & Peterson, B.S. (2014). Using the circumplex model of affect to study valence and arousal ratings of emotional faces by children and adults with autism spectrum disorders. *Journal of autism and developmental disorders*, 44(6), 1332-1346.
- Ward, D.M., Dill-Shackleford, K.E., & Mazurek, M.O. (2018). Social media use and happiness in adults with autism spectrum disorder. *Cyberpsychology, Behavior, and Social Networking*, 21(3), 205-209.
- Yannakakis, G.N., & Martinez, H.P. (2015, September). Grounding truth via ordinal annotation. In *2015 international conference on affective computing and intelligent interaction (ACII)* (pp. 574-580). IEEE.
- Yannakakis, G.N., Cowie, R., & Busso, C. (2017, October). The ordinal nature of emotions. In *2017 Seventh International Conference on Affective Computing and Intelligent Interaction (ACII)* (pp. 248-255). IEEE.