

**«ΨΥΧΟΣΥΝΑΙΣΘΗΜΑΤΙΚΗ ΑΝΑΠΤΥΞΗ ΣΤΑ ΠΑΙΔΙΑ ΜΕ ΜΑΘΗΣΙΑΚΕΣ  
ΔΥΣΚΟΛΙΕΣ ΑΝΑΦΟΡΙΚΑ ΜΕ ΤΗΝ ΕΠΙΔΟΣΗ ΤΟΥΣ ΣΤΗ ΓΛΩΣΣΑ ΚΑΙ ΣΤΑ  
ΜΑΘΗΜΑΤΙΚΑ»**

**«PSYCHO-EMOTIONAL DEVELOPMENT IN CHILDREN WITH LEARNING  
DISABILITIES REGARDING THEIR LANGUAGE AND MATH  
PERFORMANCE»**

της

Δετσιράπη Στυλιανής

Μεταπτυχιακή Διατριβή που υποβάλλεται  
στην τριμελή επιτροπή για την απόκτηση του μεταπτυχιακού τίτλου του  
Προγράμματος Μεταπτυχιακών Σπουδών Εξειδίκευσης του Τ.Ε.Φ. – Δ.Π.Θ. σε  
συνεργασία με το Ε.Κ.Ε.Φ.Ε. Δημόκριτος – Ινστιτούτο Πληροφορικής και  
Επικοινωνιών με τίτλο: «Εξειδίκευση στις Τ.Π.Ε. και Ειδική Αγωγή –  
Ψυχοπαιδαγωγική της Ένταξης».

Η τριμελής επιτροπή:

1.	ΒΕΡΔΗΣ ΑΘΑΝΑΣΙΟΣ	ΕΠΙΚΟΥΡΟΣ ΚΑΘΗΓΗΤΗΣ Φ.Π.Ψ. ΕΚΠΑ
2.	ΣΤΑΘΟΠΟΥΛΟΥ ΑΓΑΘΗ	ΣΥΝΕΡΓΑΤΙΔΑ ΕΡΕΥΝΗΤΡΙΑ Ι.Π.Τ. Ε.Κ.Ε.Φ.Ε. "ΔΗΜΟΚΡΙΤΟΣ"
3.	ΚΑΡΑΜΠΑΤΖΑΚΗ ΖΩΗ	ΣΥΝΕΡΓΑΖΟΜΕΝΗ ΕΡΕΥΝΗΤΡΙΑ Ι.Π.Τ. Ε.Κ.Ε.Φ.Ε. "ΔΗΜΟΚΡΙΤΟΣ"

Αθήνα  
2019



## Περίληψη

Η χρόνια σχολική αποτυχία συνδέεται με την κακή ακαδημαϊκή και συναισθηματική λειτουργία (Chapman, 1988, Margalit & Zak, 1984, Patten, 1983; Martínez & Semrud-Clikeman, 2004) και αποτελεί βασικό χαρακτηριστικό των μαθητών/τριών με Μαθησιακές Δυσκολίες (Μ.Δ.). Δεν αποτελεί έκπληξη το γεγονός ότι πολλές μελέτες για μαθησιακές δυσκολίες έχουν επικεντρωθεί στην ακαδημαϊκή απόδοση (Bender & Wall, 1994, Sabornie, 1994). Ως συνέπεια της χαμηλής επίδοσης, τα παιδιά με Μ.Δ. είναι ιδιαίτερα ευάλωτα στην εμφάνιση ψυχικών και συναισθηματικών προβλημάτων, τα οποία αποτελούν τροχοπέδη για την ομαλή προσαρμογή και εξέλιξή τους. Η παρούσα έρευνα αποτελεί προσπάθεια για τη διερεύνηση της σχέσης εμφάνισης ψυχοσυναισθηματικών προβλημάτων και της χαμηλής επίδοσης στη Γλώσσα και στα Μαθηματικά μαθητών/τριών Πρωτοβάθμιας εκπαίδευσης με Μαθησιακές Δυσκολίες. Το δείγμα της έρευνας αποτελούταν από 47 παιδιά συνολικά, 29 αγόρια και 18 κορίτσια, της Δ', Ε' και ΣΤ' τάξης του Δημοτικού Σχολείου, τα οποία είχαν λάβει κάποια διάγνωση μαθησιακών δυσκολιών ή/και σύμφωνα με τις εκτιμήσεις των εκπαιδευτικών της τάξης παρουσιάζουν κάποιου είδους μαθησιακή δυσκολία. Ως ερευνητικά εργαλεία χρησιμοποιήθηκαν το ερωτηματολόγιο ελέγχου σχολικής συμπεριφοράς ACHENBACH-TRF για εκπαιδευτικούς, και συγκεκριμένα οι υποκλίμακες «Άγχος/Κατάθλιψη» και «Απόσυρση/Κατάθλιψη», καθώς και η αξιολόγηση του επιπέδου επίδοσης των μαθητών/τριών στη Γλώσσα και στα Μαθηματικά. Τα αποτελέσματα της έρευνας έδειξαν ότι υπάρχουν σημαντικές συσχετίσεις σε επίπεδο στατιστικής σημαντικότητας  $p<0,01$  ή  $p<0,05$ , ανάμεσα στις ερωτήσεις του ερωτηματολογίου και στην επίδοση των μαθητών/τριών στα Μαθηματικά. Επίσης, το φύλο παρουσιάζει στατιστική σημαντική συσχέτιση με τις ερωτήσεις της υποκλίμακας «Άγχος/Κατάθλιψη».

**Λέξεις κλειδιά:** Μαθησιακές Δυσκολίες, Σχολική επίδοση, Ψυχοσυναισθηματικά προβλήματα, Μαθητές/τριες Α/βάθμιας Εκπαίδευσης

## **Abstract**

Chronic school failure is associated with poor academic and emotional functioning (Chapman, 1988; Margalit & Zak, 1984; Patten, 1983; Martínez & Semrud-Clikeman, 2004) and is a trademark of students with learning disabilities (LD). It is not surprising that many studies of learning disabilities have focused on academic performance (Bender & Wall, 1994; Sabornie, 1994). As a result of low performance, children with LD are particularly vulnerable to the appearance of mental and emotional problems, which are considered to act as an impediment to their smooth adaptation and development. This research is an attempt to probe into the relationship between the occurrence of psycho-emotional problems and the low performance in Language and Mathematics of Primary Education Students with Learning Difficulties. The sample of the study consisted of 47 children in total, 29 boys and 18 girls, of the 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> grade elementary school, who had received a diagnosis of learning difficulties, and/or according to classroom teachers, they showed some kind of learning disability. As a research tool, the ACHENBACH-TRF school behavior questionnaire for teachers was used, namely the subscales "Anxiety/Depression" and "Withdrawal/ Depression", as well as the assessment of the pupils' performance in Language and Mathematics. The results showed that there are significant correlations on a statistical significance  $p<0.01$  or  $p<0.05$  level, between the questions of the questionnaire and the performance of the students in mathematics. In addition, gender presents a statistically significant correlation with the questions of the "Anxiety/Depression" subscale.

**Keywords:** Learning Difficulties, School Performance, Psycho-emotional Problems, Primary Students

## ΒΙΒΛΙΟΓΡΑΦΙΑ

- Achenbach, T. M. (1991). *Manual for the Child Behavior Checklist/4-18*. Burlington, VT: University of Vermont Department of Psychiatry.
- Achenbach, T. M. (1996). The classification of children's psychiatric symptoms: a factor-analytic study. *Psychological Monographs, 80*, 615.
- Achenbach, T. M., & Rescorla, L. A. (2003). ΣΑΕΒΑ (Σύστημα Achenbach για Εμπειρικά Βασισμένη Αξιολόγηση): Εγχειρίδιο για τα ερωτηματολόγια και προφίλ σχολικής ηλικίας, (Επιμέλεια: Ρούσου Α.). Αθήνα: Ελληνικά Γράμματα-ΕΨΥΠΕ.
- Al-Yagon, M., & Mikulincer, M. (2004). Patterns of close relationships and socioemotional and academic adjustment among school-age children with learning disabilities. *Learning Disabilities Research & Practice, 19*(1), 12-19.
- American Psychiatric Association (2013). *Diagnostic and statistical manual of mental disorders, (DSM-5)*. Washington, DC.
- Αναγνωστόπουλος, Δ. Κ., & Σίνη, Α. Θ. (2005). *Διαταραχές σχολικής μάθησης και ψυχοπαθολογία*. Αθήνα: Ιατρικές Εκδόσεις Βήτα.
- Andersson, U. (2010). Skill development in different components of arithmetic and basic cognitive functions: Findings from a 3-year longitudinal study of children with different types of learning difficulties. *Journal of Educational Psychology, 102*, 115–134.
- Αποστόλου, Π. (2011). *Μαθησιακές και ψυχοκοινωνικές διαστάσεις της δυσλεξίας: η οπτική των εφήβων μαθητών και των γονέων τους* (Doctoral dissertation), Αριστοτελείο Πανεπιστήμιο Θεσσαλονίκης (ΑΠΘ). Σχολή Φιλοσοφική. Τμήμα Φιλοσοφίας και Παιδαγωγικής. Τομέας Παιδαγωγικής.
- Αργυρακούλη, Ε. (2004). *Συναισθηματικές δυσκολίες: συστολή, ντροπαλότητα, εσωστρέφεια, στο Καλαντζή-Αζίζι, Α. & Ζαφειροπούλου, Μ. (επιμ.)*, Προσαρμογή στο σχολείο: πρόληψη και αντιμετώπιση δυσκολιών, 329-353. Αθήνα: Ελληνικά Γράμματα.
- Arnold, E. M., Goldston, D. B., Walsh, A. K., Reboussin, B. A., Daniel, S. S., Hickman, E., & Wood, F. B. (2005). Severity of emotional and behavioral problems among poor and typical readers. *Journal of Abnormal Child Psychology, 33*(2), 205-217.
- Augst, K., & Akos, P. (2009). Primary Transitions: How Elementary School Counselors Promote Optimal Transitions. *Journal of School Counseling, 7*(3), 1-34.
- Bear, G. G., Clever, A., & Proctor, W. A. (1991). Self-perceptions of nonhandicapped children and children with learning disabilities in integrated classes. *The Journal of Special Education, 24*, 409-426.
- Beidel, D. C., Turner, S. M., & Morris, T. L. (2000). Behavioral treatment of childhood social phobia. *Journal of Consulting and Clinical Psychology, 68*, 1072-1080.

- Bender, W. (1987). Secondary personality and behavioral problems in adolescents with learning disabilities. *Journal of Learning Disabilities*, 20, 280-285.
- Bender, W. N., & Wall, M. E. (1994). Social-emotional development of students with learning disabilities. *Learning Disability Quarterly*, 17(4), 323-341.
- Boetsch, E. A., Green, P. A., & Pennington, B. F. (1996). Psychosocial correlates of dyslexia across the life span. *Development and Psychopathology*, 8, 536-539.
- Bong, M., & Skaalvik, E. M. (2003). Academic self-concept and self-efficacy: How different are they really. *Educational Psychology Review*, 15, 1-40.
- Borkowski, J. G. (1992). Metacognitive theory: A framework for teaching literacy, writing and math skills. *Journal of Learning Disabilities*, 25(4), 253-257.
- Botsas, G. & Padeliadu, S. (2003). Goal orientation and reading comprehension strategy use among students with and without reading difficulties. *International Journal of Educational Research*, 39, 477-495.
- Caron, C., & Rutter, M. (1991). Comorbidity in child psychopathology: Concepts, issues and research strategies. *Journal of Child Psychology and Psychiatry*, 32(7), 1063-1080.
- Chan, B. M., & Ho, C. S. (2010). The cognitive profile of Chinese children with mathematics difficulties. *Journal of Experimental Child Psychology*, 107, 260-279.
- Chapman, J. W. (1988). Cognitive-motivational characteristics and academic achievement of learning disabled children: A longitudinal study. *Journal of Educational Psychology*, 80(3), 357.
- Cohen, J. (1986). Learning disabilities and psychological development in childhood and adolescence. *Annals of Dyslexia*, 36, 287-300.
- Cole, P. M. (1997). *The ETS Gender Study: How Females and Males Perform in Educational Settings*. Princeton, NJ: Educational Testing Service.
- Γρετσίστα, Α. Η. (2012). *Μαθησιακές Δυσκολίες στα Μαθηματικά της Δευτεροβάθμιας Εκπαίδευσης-Το φαινόμενο της Δυσαριθμησίας*. (Μεταπτυχιακή εργασία), Σχολή Θετικών Επιστημών, Πανεπιστήμιο Πατρών.
- Γωνίδα, Ε. (1999). *Μεταγνώση και εκπαιδευτική πράξη*. Στο Σ. Παντελιάδου (επ.) *Μεταγνωστικές δεξιότητες και οργάνωση συμπεριφοράς για παιδιά με μαθησιακές δυσκολίες*, 19-34, Θεσσαλονίκη: ΥΠΕΠΘ-ΕΠΕΑΕΚ.
- Dadds, M., & Roth, J. (2008). Prevention of anxiety disorders: Results of a universal trial with young children. *Journal of Child and Family Study*, 17, 320-335.
- Dahle, A. E., Knivsberg, A. M., & Andreassen, A. B. (2011). Coexisting problem behavior in severe dyslexia. *Journal of Research in Special Educational Needs*, 11(3), 162-170.

- Dalley, M. B., Bolokofsky, D. N., Alcorn, M. B., & Baker, C. (1992). Depressive symptomatology, attributional style, dysfunctional attitude, and social competency in adolescents with and without learning disabilities. *School Psychology Review*, 21, 444-458.
- Dhossche, D., Ferdinand, R., Van der Ender, J., & Verhulst, F. (2001). Outcome of self-reported functional-somatic symptoms in a community sample of adolescents. *Annals of Clinical Psychiatry*, 13, 191-199.
- Di Riso, D., Bobbio, A., Chessa, D., Lis, A., & Mazzeschi, C. (2014). Analysis of the interplay between depression, anxiety, and psychological resources in adolescence using self-report measures. *International journal of psychiatry in clinical practice*, 18(2), 103-111.
- Δόικου, Μ. (2015). Ο ρόλος του εκπαιδευτικού στην αντιμετώπιση των ψυχοκοινωνικών προβλημάτων των μαθητών με ειδικές μαθησιακές δυσκολίες: απόψεις εκπαιδευτικών της πρωτοβάθμιας εκπαίδευσης. *Παιδαγωγική επιθεώρηση*, 41, 93-116.
- Δόικου-Αυλίδου, Μ. (2002). Δυσλεξία: συναισθηματικοί παράγοντες και ψυχοκοινωνικά προβλήματα. Αθήνα: Ελληνικά Γράμματα.
- Dollinger, S.J., Horn, J.L., & Boarini, D. (1988). Disturbed sleep and worries among learning disabled adolescents. *American Journal of Orthopsychiatry*, 58, 428-434.
- Dombrowski, S. C., Kamphaus, R. W., & Reynolds, C. R. (2004). After the demise of the discrepancy: Proposed learning disabilities diagnostic criteria. *Professional Psychology: Research and Practice*, 35, 364-372.
- Duckworth, A., & Seligman, M. (2006). Self-discipline gives girls the edge: gender in self-discipline, grades, and achievement test scores. *J Edu Psychol*, 98, 198–208.
- Fletcher, J. M., Coulter, W. A., Reschly, D. J., & Vaughn, S. (2004). Alternative approaches to the definition and identification of learning disabilities: Some questions and answers. *Annals of Dyslexia*, 54, 304-332.
- Frederickson, N., & Jacobs, S. (2001). Controllability attributions for academic performance and the perceived scholastic competence, global self-worth and achievement of children with dyslexia. *School Psychology International*, 22, 401-416.
- Fristad, M. A., Topolosky, S., Weller, E. B., & Weller, R. A. (1992). Depression and learning disabilities in children. *Journal of Affective Disorders*, 26, 53-58.
- Ζακοπούλου, Β., Ζωσιμίδου, Ο., Γεωργίου, Γ., & Μυλωνά, Α. (2013). Συννοσηρότητα Μαθησιακών Δυσκολιών και κοινωνικών/ψυχο-συναισθηματικών διαταραχών σε παιδιά σχολικής ηλικίας. *Διεπιστημονική Φροντίδα Υγείας*, 5(4), 190-198.
- Gans, A. M., Kenny, M. C., & Ghany, D. L. (2003). Comparing the self-concept of students with and without learning disabilities. *Journal of learning disabilities*, 36(3), 287-295.

- Geary, D. C. (2006). Dyscalculia at an early age: Characteristics and potential influence on socio-emotional development. *Encyclopedia on early childhood development*, 15, 1-4.
- Geary, D. C., Hoard, M. K., Nugent, L., & Bailey, D. H. (2012). Mathematical cognition deficits in children with learning disabilities and persistent low achievement: a five-year prospective study. *Journal of educational psychology*, 104(1), 206.
- Geisthardt, C., & Munsch, J. (1996). Coping with school stress: A comparison of adolescents with and without learning disabilities. *Journal of Learning Disabilities*, 29(3), 287-297.
- Ginsburg, G., La Greca, A. M., & Silverman, W. K. (1998). Social anxiety in children with anxiety disorders: Relation with social and emotional functioning. *Journal of Abnormal Child Psychology*, 26(3), 175-185.
- Goldstein, D., Paul, G. G., & Sanfilippo-Cohn, S. (1985). Depression and achievement in subgroups of children with learning disabilities. *Journal of Applied Developmental Psychology*, 6, 263-275.
- Goldstein, S. E., Boxer, P., & Rudolph, E. (2015). Middle school transition stress: Links with academic performance, motivation, and school experiences. *Contemporary School Psychology*, 19(1), 21-29.
- Gresham, F. M. (1991). Conceptualizing behavior disorders in terms to resistance to intervention. *School Psychology Review*, 20, 23-36.
- Gresham, F. F., & Vellutino, F. (2010). What is the role of intelligence in the identification of specific learning disabilities? Issues and Clarifications. *Learning Disabilities Research & Practice*, 25(4), 194-206.
- Hagborg, W. J. (1996). Self-concept and middle school students with learning disabilities: A comparison of scholastic competence subgroups. *Learning Disability Quarterly*, 19, 117-126.
- Hammill, D. D. (1990). On dening learning disabilities: An emerging consensus. *Journal of Learning Disabilities*, 23, 74-84.
- Handwerk, M. L., & Marshall, R. M. (1998). Behavioral and emotional problems of students with learning disabilities, serious emotional disturbance or both conditions. *Journal of Learning Disabilities*, 31(4), 327-338.
- Hannover, B., & Kessels, U. (2011). Are boys left behind at school? Reviewing and explaining education-related gender disparities. *Z Pädagog Psychol*, 25, 89–103.
- Harter, S., Whitesell, N. R., & Junkin, L. J. (1998). Similarities and differences in domain-specific and global self-evaluations of learning-disabled, behaviorally disordered, and normally achieving adolescents. *American Education Research Journal*, 35, 653-680.
- Hartley, B. L., & Sutton, R. M. (2013). A stereotype threat account of boys' academic underachievement. *Child development*, 84(5), 1716-1733.
- Hatzichristou, C., & Hopf, D. (1993). Students with learning disabilities: Academic and psychosocial aspects of adaptation. *School Psychology International*, 14(1), 43-56.

- Hayes, M. L., & Sloat, R. S. (1988). Preventing suicide in learning disabled children and adolescents. *Academic Therapy*, 24, 221-230.
- Heath, N. L., & Ross, S. (2000). Prevalence and expression of depressive symptomatology in students with and without learning disabilities. *Learning Disability Quarterly*, 23(1), 24-36.
- Heath, N. L., & Wiener, J. (1996). Depression and nonacademic self-perceptions in children with and without learning disabilities. *Learning Disabilities Quarterly*, 19, 34-44.
- Howard, K. A., & Tryon, G. S. (2002). Depressive symptoms in and type of classroom placement for adolescents with LD. *Journal of Learning Disabilities*, 35, 185-191.
- Huntington, D. D., & Bender, W. N. (1993). Adolescents with learning disabilities at risk? Emotional well-being, depression, suicide. *Journal of Learning Disabilities*, 26, 159-166.
- Jacobsen, B., Lowery, B., & DuCette, J. (1986). Attributions of learning disabled children. *Journal of Educational Psychology*, 78(1), 59-64.
- Κάκουρος, Ε., & Μανιαδάκη, Κ. (2006). *Ψυχοπαθολογία παιδιών και εφήβων. Αναπτυξιακή προσέγγιση.* Αθήνα: Τυπωθήτω-Γιώργος Δάρδανος
- Κανδαράκης, Α. (2004). *Συνυπάρχουν οι μαθησιακές δυσκολίες με τα προβλήματα συμπεριφοράς;* Θεωρητική διερεύνηση- πρακτική αντιμετώπιση. Αθήνα: Εκδόσεις Σαββάλας.
- Karande, S., & Kulkarni, M. (2005). Poor school performance. *The Indian Journal of Pediatrics*, 72(11), 961-967.
- Kavale, K. A., & Forness, S. R. (1996). Social skill deficits and learning disabilities: A meta-analysis. *Journal of Learning Disabilities*, 29, 226-237.
- Kavale, K. A., & Forness, S. R. (2000). What definitions of learning disability say and don't say: A critical analysis. *Journal of learning disabilities*, 33(3), 239-256.
- Kendall, P. C., Hedtke, K. A., & Aschenbrand, S. G. (2006). Anxiety disorders. Στο: D.A. Wolfe & E.J. Mash (Eds.), *Behavioral and emotional disorders in adolescents: nature, assessment and treatment*, (σελ. 259-299). New York: The Guilford Press.
- King, N. J., Josephs, A., Gullone, E., Madden, C., & Ollendick, T. H. (1994). Assessing the fears of children with disability using the Revised Fear Survey Schedule for Children: A comparative study. *British Journal of Medical Psychology*, 67(4), 377-386.
- King, N. J., Ollier, K., Iacuone, R., Schuster, S., Bays, K., Gullone, E., & Ollendick, T. H. (1989). Fears of children and adolescents: A cross-sectional Australian study using the revised-fear survey schedule for children. *Journal of Child Psychology and Psychiatry*, 30(5), 775-784.
- Κλεφτάρας, Γ. (2004). *Το παιδί με καταθλιπτικά συμπτώματα και η αντιμετώπισή του από τον δάσκαλο,* στο Καλαντζή-Αζίζη, Α. & Ζαφειροπούλου, Μ. (επιμ.), Προσαρμογή στο σχολείο: πρόληψη και αντιμετώπιση δυσκολιών, 355-381. Αθήνα: Ελληνικά Γράμματα.
- Kogelman, S., & Warren, J. (1978). *Mind over math*. New York: McGraw-Hill.

- Kumar, V., & Karimi, A. (2010). Mathematics Anxiety, Mathematics Performance and Overall Academic Performance in High School Students. *Journal of the Indian Academy of Applied Psychology*, 36(1), 147-150.
- Lackaye, T. D., & Margalit, M. (2006). Comparisons of achievement, effort, and self-perceptions among students with learning disabilities and their peers from different achievement groups. *Journal of learning disabilities*, 39(5), 432-446.
- Lackaye, T., Margalit, M., Ziv, O., & Ziman, T. (2006). Comparisons of self-efficacy, mood, effort, and hope between students with learning disabilities and their non-LD-matched peers. *Learning Disabilities Research & Practice*, 21(2), 111-121.
- Landgren, M., Pettersson, R., Kjellman, B., & Gillberg, C. (1996). ADHD, DAMP and other Neurodevelopmental/Psychiatric Disorders in 6-year-old Children: epidemiology and Co-morbidity. *Developmental Medicine and Child Neurology*, 38, 891-906.
- Λεονταρή, Α. (1998). *Αυτοαντίληψη*. Αθήνα: Ελληνικά Γράμματα.
- Li, H., & Morris, R. J. (2007). Assessing fears and related anxieties in children and adolescents with learning disabilities or mild mental retardation. *Research in developmental disabilities*, 28(5), 445-457.
- Li, H., & Prevatt, F. (2007). Fears and related anxieties across three age groups of Mexican American and White children with disabilities. *The Journal of genetic psychology*, 168(4), 381-400.
- Maag, J. W., & Behrens, J.T. (1989). Depression and cognitive self-statements of learning disabled and seriously emotionally disturbed adolescents. *The Journal of Special Education*, 23, 17-27.
- Maag, J. W., & Reid, R. (2006). Depression among students with learning disabilities: Assessing the risk. *Journal of Learning Disabilities*, 39(1), 3-10.
- Manassis, K., & Young, A. (2000). Perception of Emotions in Anxious and Learning Disabled Children. *Depression and Anxiety*, 12, 209–216.
- Margalit, M., & Shulman, S. (1986). Autonomy perceptions and anxiety expressions of learning disabled adolescents. *Journal of Learning Disabilities*, 19, 291-293.
- Margalit, M., & Zak, I. (1984). Anxiety and self-concept of learning disabled children. *Journal of Learning Disabilities*, 17, 537-539.
- Μαρκοβίτης, Μ., & Τζουριάδου, Μ. (1991). *Μαθησιακές Δυσκολίες. Θεωρία και Πράξη*. Θεσσαλονίκη: Προμηθεύς.
- Μαρτιμιανάκη, Α. (2015). *Ψυχοκοινωνική προσαρμογή και αυτοεκτίμηση μαθητών με και χωρίς μαθησιακές δυσκολίες (Μεταπτυχιακή Εργασία)*, Πάτρα 2015.
- Martínez, R. S., & Semrud-Clikeman, M. (2004). Emotional adjustment and school functioning of young adolescents with multiple versus single learning disabilities. *Journal of learning disabilities*, 37(5), 411-420.

- Ματή-Ζήση, Ε. (2004). Σχολικό-μαθησιακές δυσκολίες: Ανάγνωση, Ορθογραφημένη γραφή, Αριθμητική, στο Καλαντζή-Αζίζι, Α. & Ζαφειροπούλου, Μ. (επιμ.), Προσαρμογή στο σχολείο: πρόληψη και αντιμετώπιση δυσκολιών, 161-191. Αθήνα: Ελληνικά Γράμματα.
- Mattis, S. G., & Pincus, D. B. (2004). Treatment of SAD and Panic Disorder in Children and Adolescents. Στο: P.M. Barrett & T.H. Ollendick (Eds), *Handbook of interventions that workwith children and adolescents: Prevention and Treatment* (σελ. 145-169). UK: J. Wiley.
- Maughan, B., & Carroll, J. (2006). Literacy and psychiatric disorders. *Current Opinion in Psychiatry*, 19, 350–354.
- Maughan, B., Rowe, R., Loeber, R., & Stouthamer-Loeber, M. (2003). Reading problems and depressed mood. *Journal of abnormal child psychology*, 31(2), 219-229.
- Meltzer, L., Roditi, B., Houser, R. F., Jr., & Perlman, M. (1998). Perceptions of academic strategies and competence in students with learning disabilities. *Journal of Learning Disabilities*, 31, 437-451.
- Morris, T. L. (2004). Treatment of Social Phobia in Children and Adolescents. Στο: P.M. Barrett & T.H. Ollendick (Eds), *Handbook of interventions that work with children and adolescents: Prevention and Treatment*, (σελ. 171-186). UK: J. Wiley.
- Μπύμπου-Νάκου, Ι. (2004). *To áγχος και η φοβία σε παιδιά*, στο Καλαντζή-Αζίζι, Α. & Ζαφειροπούλου, Μ. (επιμ.), Προσαρμογή στο σχολείο: πρόληψη και αντιμετώπιση δυσκολιών, 287-327. Αθήνα: Ελληνικά Γράμματα.
- Μπότσας, Γ. (2007). *Μεταγνωστικές διεργασίες στην αναγνωστική κατανόηση παιδιών με και χωρίς αναγνωστικές δυσκολίες: «Μεταγιγνώσκειν», κίνητρα και συναισθήματα που εμπλέκονται*. (Διδακτορική διατριβή), Βόλος: Πανεπιστήμιο Θεσσαλίας.
- Nelson, J. M., & Harwood, H. (2011). Learning disabilities and anxiety: A meta-analysis. *Journal of learning disabilities*, 44(1), 3-17.
- Norwood, K. S. (1994). The effect of instructional approach on mathematics anxiety and achievement. *School Science and Mathematics*, 94(5), 248-254.
- Ollendick, T. H., King, N. J., & Frary, R. B. (1989). Fears in children and adolescents: Reliability and generalizability across gender, age and nationality. *Behavior research and therapy*, 27(1), 19-26.
- Pajares, F., & Valiante, G. (2001). Gender differences in writing motivation and achievement of middle school students: A function of gender orientation? *Contemporary educational psychology*, 26(3), 366-381.
- Palladino, P., Poli, P., Masi, G., & Marcheschi, M. (2000). The relation between metacognition and depression symptoms in preadolescents with learning disabilities. Data in support of Borkowski's model. *Learning Disabilities Research and Practice*, 15(3), 142-148.
- Palombo, J. (2001). *Learning disorders & disorders of the self in children & adolescents*. New York: Norton & Company.

Παντελιάδου, Σ., Αντωνίου, Φ., & Σιδερίδης, Γ. Δ. (2008). Ανίχνευση Μαθησιακών Δυσκολιών από εκπαιδευτικούς (ΑΜΔΕ): ψυχομετρική αξιολόγηση με τη μέθοδο Rasch. *Ψυχολογία*, 15(3), 239-266.

Pearl, R. A. (1982). LD children's attributions for success and failure: A replication with a labeled learning disabled sample. *Learning Disability Quarterly*, 5, 173-176.

Pietsch, J., Walker, R., & Chapman, E. (2003). The relationship among self-concept, self-efficacy, and performance in mathematics during secondary school. *Journal of Educational Psychology*, 95, 589-603.

Πολυχρόνη, Φ., Χατζηχρήστου, Χ., & Μπίμπου, Α. (2006). *Ειδικές Μαθησιακές Δυσκολίες Δυσλεξία: Ταξινόμηση, αξιολόγηση και παρέμβαση*. Αθήνα: Ελληνικά Γράμματα.

Πόρποδας, Κ. (2003α). *Η μάθηση και οι δυσκολίες της*. Πάτρα: Αυτοέκδοση.

Pourmoslemi, A., Erfani, N., & Firoozfar, I. (2013). Mathematics Anxiety, Mathematics Performance and Gender differences among Undergraduate Students. *International Journal of Scientific and Research Publications*, 3(7), 1-6.

Prior, M., Smart, D., Sanson, A., & Oberklaid, F. (1999). Relationships between learning difficulties and psychological problems in preadolescent children from a longitudinal sample. *Journal of American Academy for Child and Adolescent Psychiatry*, 38(4), 429-436.

Ramirez, G., Chang, H., Malonet, E., Levine, S., & Beilock, S. (2016). On the relationship between math anxiety and math achievement in early elementary school: The role of problem solving strategies. *Journal of Experimental Child Psychology*, 141, 83-100.

Renick, M. J., & Harter, S. (1989). Impact of social comparisons on the developing self-perceptions of learning-disabled students. *Journal of Educational Psychology*, 81, 631-638.

Richters, J. E. (1993). Community violence and children's development: Towards a research agenda for the 1990's. *Psychiatry*, 56, 3-6.

Riddick, B. (1996). *Living with Dyslexia: The Social and Emotional Consequences of Specific Learning Difficulties*. London: Routledge.

Riglin, L., Frederickson, N., Shelton, K. H., & Rice, F. (2013). A longitudinal study of psychological functioning and academic attainment at the transition to secondary school. *Journal of adolescence*, 36(3), 507-517.

Rothman, H. W., & Cosden, M. (1995). The relationship between self-perception of a learning disability and achievement, self-concept and social support. *Learning Disability Quarterly*, 18, 203-212.

Rourke, B. P. (1993). Arithmetic disabilities, specific and otherwise: a neurological perspective. *Journal of Learning Disabilities*, 26, 214-226.

Sabornie, E. J. (1994). Social-affective characteristics in early adolescents identified as learning disabled and nondisabled. *Learning Disability Quarterly*, 17, 268-279.

- Saddler, C. D., & Buckland Jr, R. L. (1995). The multidimensional perfectionism scale: correlations with depression in college students with learning disabilities. *Psychological reports*, 77(2), 483-490.
- Σακκάς, Β. (2002). *Μαθησιακές Δυσκολίες και οικογένεια, Παιδαγωγική και Κοινωνιοψυχολογική προσέγγιση*. Αθήνα: Ατραπός.
- Shalev, R. S., Auerbach, J., & Gross-Tsur, V. (1995). Developmental dyscalculia behavioral and attentional aspects: A research note. *Journal of Child Psychology and Psychiatry*, 36(7), 1261-1268.
- Shell, M. D., Gazelle, H., & Faldowski, R. A. (2014). Anxious solitude and the middle school transition: A diathesis× stress model of peer exclusion and victimization trajectories. *Developmental Psychology*, 50(5), 1569.
- Shunk, D. H. (1984). Self-efficacy perspective on achievement behavior. *Educational psychologist*, 19, 48-58.
- Sideridis, G. D. (2005). Goal orientations, academic achievement, and depression: Evidence in favor of revised goal theory. *Journal of Educational Psychology*, 97, 366-375.
- Sideridis, G., Morgan, P. L., Botsas, G., Padeliadu, S., & Fuchs, D. (2006). Identifying students with or at risk for learning disabilities based on motivation, metacognition and psychopathology: A ROC analysis. *Journal of Learning Disabilities*, 39(3), 215-229.
- Stage, S. A., Abbott, R. D., Jenkins, J. R., & Berninger, V. W. (2003). Predicting response to early intervention from Verbal IQ, reading-related language abilities, attention ratings and Verbal IQ-word reading discrepancy: failure to validate discrepancy method. *Journal of Learning Disabilities*, 36, 24-33.
- Σταθοπούλου, Καραμπατζάκη, Πανταζοπούλου, & Παπαδάτος (2015). Σχέση μαθησιακών δυσκολιών με την εμφάνιση ψυχολογικών προβλημάτων σε μαθητές Δ/βάθμιας εκπαίδευσης. *Πανελλήνιο Συνέδριο Επιστημών Εκπαίδευσης*, 2015, 1339-1346.
- Stanat, P., & Kunter, M. (2003). Acquisition of competencies, participation in education and school career of girls and boys in comparison of German Federal States, in *PISA 2000: Eindifferenzierter Blick auf die Länder der Bundesrepublik Deutschland*, eds J. Baumert, C. Artelt, E. Klieme, M. Neubrand, M. Prenzel, U. Schiefele, et al. (Opladen: Leske + Budrich), 211–242.
- Stanat, P., Pant, H. A., Böhme, K., & Richter, D. (eds.) (2012). *Competencies of girls and boys at the end of 4th school grade in the subjects German and mathematics: Results of the IQB-comparison of German Federal States 2011*. Münster: Waxmann.
- Stanovich, K. E. (2005). The future of a mistake: will discrepancy measurement continue to make the LD field a pseudoscience? *Learning Disability Quarterly*, 28, 103-106.

- Stathopoulou, A., Karabatzaki, Z., Kokkalia, G., Dimitriou, E., Loukeri, P. I., Economou, A., & Drigas, A. (2018). Mobile Assessment Procedures for Mental Health and Literacy Skills in Education. *International Journal of Interactive Mobile Technologies (iJIM)*, 12(3), 21-37.
- Swanson, H. L., & Howell, C. (1996). Test anxiety in adolescents with learning disabilities and behavioral disorders. *Exceptional Children*, 62, 389-397.
- Tobias, S. (1978). *Overcoming Math Anxiety*. Boston: Houghton Mifflin.
- Tollefson, N. (2000). Classroom application of cognitive theories of motivation. *Educational Psychology Review*, 12(1), 63-83.
- Τσοβίλη, Θ. Δ. (2003). *Δυσλεξία και άγχος: Μία σχέση ζωής; Το άγχος των δυσλεξικών εφήβων, ο ρόλος της μητέρας και του φιλόλογου καθηγητή*. Αθήνα: Ελληνικά Γράμματα.
- Valås, H. (1999). Students with learning disabilities and low-achieving students: Peer acceptance, loneliness, self-esteem, and depression. *Social Psychology of Education*, 3, 173-192.
- Valås, H. (2001). Learned helplessness and psychological adjustment: Effects of age, gender and academic achievement. *Scandinavian Journal of Educational Research*, 45(1), 71-90.
- Vaughn, S., Haager, D., Hogan, A., & Kouzekanani, K. (1992). Self-concept and peer acceptance in students with learning disabilities: A four- to five-year prospective study. *Journal of Educational Psychology*, 84, 43-50.
- Vaughn, S., Zaragoza, N., Hogan, A., & Walker, J. (1993). A four-year longitudinal investigation of the social skills and behavior problems of students with learning disabilities. *Journal of Learning Disabilities*, 26, 404-412.
- Vellutino, F. R., Fletcher, J. M., Snowling, M. J., & Scanlon, D. M. (2004). Specific reading disability (dyslexia): What have we learned the past four decades. *Journal of Child Psychology and Psychiatry*, 45(1), 2-40.
- Vellutino, F., Scanlon, D., & Tanzman, M. (1998). The case of early intervention in diagnosing reading disability. *Journal of School Psychology*, 36, 367-397.
- Wagner, R. K., & Torgesen, J. K. (1987). The nature of phonological processing and its causal role in the acquisition of reading skills. *Psychological Bulletin*, 101, 192-212.
- Watson, D., Wiese, D., Vaidya, J., & Tellegen, A. (1999). Two general activation systems of affect: Structural findings, evolutionary considerations and psychobiological evidence. *Journal of Personality and Social Psychology*, 76, 820-836.
- Weintraub, S., & Mesulam, M. M. (1983). Developmental learning disabilities of the right hemisphere. *Archives of Neurology*, 40, 463-468.
- Weis, M., Heikamp, T., & Trommsdorff, G. (2013). Gender differences in school achievement: The role of self-regulation. *Frontiers in Psychology*, 4, 442.

- Wenz-Gross, M., & Siperstein, N. G. (1998). Students with learning problems at risk in middle school: stress, social support, and adjustment. *Exceptional Children*, 65(1), 91-100.
- Willcutt, E. G., & Pennington, B. F. (2000). Psychiatric comorbidity in children and adolescents with reading disability. *The Journal of Child Psychology and Psychiatry and Allied Disciplines*, 41(8), 1039-1048.
- World Health Organization. (2007). *The ICD-10 classification of mental and behavioural disorders: diagnostic criteria for research*. Geneva: World Health Organization.
- Wright-Strawderman, C., & Watson, B. L. (1992). The prevalence of depressive symptoms in children with learning disabilities. *Journal of Learning Disabilities*, 25, 258-264.
- Χατζηθεολόγου, Α. (1994): *Η αυτοαντίληψη σε σχέση με την αναγνωστική ικανότητα του μαθητή στο δημοτικό σχολείο*. (Διδακτορική διατριβή), Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών.
- Yenilmez, K., Girginer, N., & Uzun, O. (2007). Mathematics Anxiety and Attitude Level of Students of the Faculty of Economics and Business Administrator; The Turkey Model. *International Mathematical Forum*, 2(41), 1997-2021.
- Ysseldyke, J. E. (2005). Assessment and Decision Making in Learning Disabilities: What if this is as good as it gets? *Learning disability Quarterly*, 28(2), 128-132.
- Zahn-Waxler, C., Klimes-Dougan, B., & Slattery, M. J. (2000). Internalizing problems of childhood and adolescence: Prospects, pitfalls, and progress in understanding the development of anxiety and depression. *Development and psychopathology*, 12(3), 443-466.
- Zoccolillo, M. (1993). Gender and the development of conduct disorder. *Development and Psychopathology*, 5, 65-78.
- Zumeta, R. O., Zirkel, P. A., & Danielson, L. (2014). Identifying Specific Learning Disabilities. Legislation, Regulation, and Court Decisions. *Topics in Language Disorders*, 34(1), 8-24.