

**Amanda M. VanDerHeyden****EDUCATION**

Ph.D., Louisiana State University, 2001. Psychology.

Specialization in School Psychology and Applied Behavior Analysis. Major Professor, Joe Witt, Ph.D

**CURRENT POSITION**

**Education Research and Consulting, Inc.**, President. Daphne, AL

Founder/Developer of [www.interventionadviser.com](http://www.interventionadviser.com) now SpringMath [springmath.org](http://springmath.org) Holder of copyright and pending patent on IP driving SpringMath.

Web Profiles

<https://www.springmath.org/amanda-vanderheyden>

<https://scholar.google.com/citations?user=hQ21cDoAAAAJ&hl=en>

<https://www.researchgate.net/profile/Amanda-Vanderheyden>

**SELECTED CURRENT BOARD SERVICE**

- Scientific Advisor to “Collaborative Research: A Multi-Lab Investigation of the Conceptual Foundations of Early Number Development” funded by National Science Foundation, Division of Research in Learning, 4-year project beginning 2022.
- Scientific Advisor to University of Arizona, Chandler. *Addressing Learning Loss and the Social Emotional Needs of Arizona Students Through Multi-Tier Systems of Supports*. 4-year project beginning Fall 2022.

**SELECTED HONORS**

- Honorable mention for article of the year, *School Psychology*, 2022.
- Invited to present to Gates K-12 Mathematics team. November 1, 2018. Seattle, WA.
- Kirk Award Article of the Year, *Learning Disabilities Research & Practice*, 2016
- 2013 Recipient of the *Midwest Instructional Leadership Consortium Discovery Award for Distinction in Educational Research*. September 30, 2013, Minneapolis, MN.
- Article of the Year for *Journal of School Psychology*, 2007
- Lightner-Witmer Division 16 American Psychological Association Early Career Award Winner in 2006.
- Honorable Mention Article of the Year, *Journal of School Psychology*, 2006

**ASSOCIATE EDITOR**

*School Psychology Review*, 2010 – 2015 (guest AE 2020)

*School Psychology*, guest AE 2020

*Assessment for Effective Intervention*, 2008-2010

*Journal of Behavioral Education*, 2005-2008

**GUEST EDITOR**

*Communique* (National Association of School Psychologists), Math series, 2021-2022

*School Psychology Review*, Special issue on Return on Investment, volume 49 (4) Fall 2020

*Assessment for Effective Intervention*, Special issue on Response to Intervention, volume 35 (4) Fall 2006

*School Psychology Review*, Special issue on Early Childhood/Early Intervention, volume 32 (4) Fall 2006

**CURRENT EDITORIAL BOARD SERVICE for 7 JOURNALS****AD HOC REVIEWER and PAST BOARD SERVICE for 13 JOURNALS****SELECTED PUBLICATIONS**

1. Coddling, R., **VanDerHeyden, A. M.**, & Chehayeb, R. (in submission). Comparing the impact of aligned and misaligned instructional tactics on appropriate & challenging instructional targets. Manuscript accepted for publication at *Remedial and Special Education*.
2. **VanDerHeyden, A. M.**, & Solomon, B. (2023). The limits of accuracy and why fluency is a superior metric. *School Psychology*, 38(3), 160-172. <https://doi.org/10.1037/spq0000528>

3. Hollins-Sims, N. Y., Coddling, R. S., & **VanDerHeyden, A. M.** (2022). The Science of Math -- Inclusion, Opportunity, and Social Responsibility. *Communique*, 50(6), 1, 31-34.
4. **VanDerHeyden, A. M.**, Coddling, R., & Solomon, B. G. (2022). Reliability of Computer-Based CBMs Versus Paper/Pencil Administration for Fact and Complex Operations in Mathematics. *Remedial and Special Education*. <https://doi.org/10.1177/07419325221079851>
5. Peltier, C., **VanDerHeyden, A. M.**, & Hott, B. L. (2022). Strategies to help students solve addition and subtraction word problems. *Beyond Behavior*, 31, 29-41. <https://doi.org/10.1177/10742956211072260>
6. Solomon, B., G., **VanDerHeyden, A. M.**, Solomon, E. C., Korzeniewski, E. R., Payne, L. L., Campaña, K. V., & Dillon, C. R. (2022). Mastery Measurement in Mathematics and the Goldilocks Effect. *School Psychology*, 37,213-224. <https://doi.org/10.1037/spq0000496>. Honorable mention article of the year 2022.
7. **VanDerHeyden, A. M.**, Coddling, R. S., Martin, R., Desai, S., Maki, E., & McKeveitt, N. (in submission). Use of a web-based mathematics intervention tool to promote implementation and student learning. Manuscript submitted for publication. Under Revision.
8. **VanDerHeyden, A. M.**, Burns, M. K., Peltier, C., & Coddling, R. S. (2021). The Science of Math – The Importance of Mastery Measures and the Quest for a General Outcome Measure. *Communique*, 50 (5), p. 1.
9. **VanDerHeyden, A. M.**, Hughes, E., & Coddling, R. S. (2021). The science of math and classwide math intervention. *Communique*, 50 (4), p. 1.
10. Barrett, C. A., Gadke, D., & **VanDerHeyden, A. M.** (2020). At What Cost? Introduction to the Special Issue Return on Investment for Academic and Behavioral Assessment and Intervention. *School Psychology Review*, 49, 1-12.
11. Barrett, C. A., & **VanDerHeyden, A. M.** (2020). A cost-effectiveness analysis of classwide math intervention. *Journal of School Psychology*, 80, 54-65. <https://doi.org/10.1016/j.jsp.2020.04.002>
12. **VanDerHeyden, A. M.**, & Coddling, R. S. (2020). Belief-Based Versus Evidence-Based Math Assessment and Instruction: What School Psychologists Need to Know to Improve Student Outcomes. Research-Based Practice; *Communique*, 48 (5), p. 1, 20-25. Selected for the Marshall Memo.
13. **VanDerHeyden, A. M.**, Broussard, C., & Burns, M. K. (2019). Classification agreement for gated screening in mathematics: Subskill mastery measurement and classwide intervention. *Assessment for Effective Intervention*. <https://doi.org/10.1177/1534508419882484>
14. **VanDerHeyden, A. M.**, & Broussard, C. (2019). Construction and Examination of Math Subskill Mastery Measures. *Assessment for Effective Intervention*. <https://doi.org/10.1177/1534508419883947>
15. **VanDerHeyden, A. M.**, & Burns, M. K., (2019). Commentary: Improving decision making in school psychology: Making a difference in the lives of students, not just a prediction about their lives. *School Psychology Review*, 47, 385-395. <https://doi.org/10.17105/SPR-2018-0042.V47-4>
16. **VanDerHeyden, A. M.**, Coddling, R., Martin, R. (2017). Relative value of common screening measures in mathematics. *School Psychology Review*, 46, 65-87. <https://doi.org/10.17105/SPR46-1.65-87>
17. Coddling, R., **VanDerHeyden, A. M.**, Martin, R. J., & Perrault, L. (2016). Manipulating Treatment Dose: Evaluating the Frequency of a Small Group Intervention Targeting Whole Number Operations. *Learning Disabilities Research & Practice*, 31, 208-220. <https://doi.org/10.1111/ldrp.12120>. Kirk Award for Best Research Article of the Year from the Division of Learning Disabilities of the Council for Exceptional Children.
18. Burns, M. K., Peterson-Brown, S., Haegele, K., Rodriguez, M., Schmitt, B., Braum, M., Clayton, K., Hutcheson, S., Conner, C., Hosp, J., & **VanDerHeyden, A. M.** (2016). Meta-analysis of academic interventions derived from neuropsychological data, *School Psychology Quarterly*, 31, 28-42.

<https://doi.org/10.1037/spq0000117>

19. **VanDerHeyden, A. M.**, Burns, Brown, Shinn, Kukic, Gibbons, Batsche, & Tilly (2016). Four steps to implement RTI correctly. *Education Week*, January 6, 2016. Selected for the Marshall Memo.
20. **VanDerHeyden, A. M.** & Coddling, R. (2015). Practical effects of classwide mathematics intervention. *School Psychology Review*, *44*, 169-190. <http://dx.doi.org/10.17105/spr-13-0087.1>
21. **VanDerHeyden, A. M.** (2013). Universal screening may not be for everyone: Using a threshold model as a smarter way to determine risk. *School Psychology Review*, *42*, 402-414.
22. **VanDerHeyden, A. M.**, McLaughlin, T., Algina, J., & Snyder, P. (2012). Randomized evaluation of a supplemental grade-wide mathematics intervention. *American Education Research Journal*, *49*, 1251-1284. <https://doi.org/10.3102/0002831212462736>
23. **VanDerHeyden, A. M.**, Broussard, C., Snyder, P., George, J., LaFleur, S. M., Williams, C. (2011). Measurement of kindergartners' understanding of early mathematical concepts. *School Psychology Review*, *40*, 296-305.
24. **VanDerHeyden, A. M.** (2011). Technical adequacy of RtI decisions. *Exceptional Children*, *77*, 335-350. <https://doi.org/10.1177/001440291107700305>
25. **VanDerHeyden, A. M.** (2010). Determining early mathematical risk: Ideas for extending the research. Invited commentary in *School Psychology Review*, *39*, 196-202.
26. **VanDerHeyden, A. M.**, & Burns, M. K. (2009). Performance indicators in math: Implications for brief experimental analysis of academic performance. *Journal of Behavioral Education*, *18*, 71-91. <https://doi.org/10.1007/s10864-009-9081-x>
27. **VanDerHeyden, A. M.**, & Burns, M. K. (2008). Examination of the utility of various measures of mathematics proficiency. *Assessment for Effective Intervention*, *33*, 215-224. <https://doi.org/10.1177/1534508407313482>
28. **VanDerHeyden, A. M.**, Witt, J. C., & Gilbertson, D. A (2007). Multi-Year Evaluation of the Effects of a Response to Intervention (RTI) Model on Identification of Children for Special Education. *Journal of School Psychology*, *45*, 225-256. <http://dx.doi.org/10.1016/j.jsp.2006.11.004>. Article of the year 2007.
29. **VanDerHeyden, A. M.**, Broussard, C. & Cooley, A. (2006). Further development of measures of early math performance for preschoolers. *Journal of School Psychology*, *44*, 533-553. Honorable mention for article of the year in 2006. <https://doi.org/10.1016/j.jsp.2006.07.003>
30. Burns, M. K., **VanDerHeyden, A. M.**, & Jiban, C. (2006). Assessing the instructional level for mathematics: A comparison of methods. *School Psychology Review*, *35*, 401-418.
31. **VanDerHeyden, A. M.** & Witt, J. C. (2005). Quantifying the context of assessment: Capturing the effect of base rates on teacher referral and a problem-solving model of identification. *School Psychology Review*, *34*, 161-183.
32. **VanDerHeyden, A. M.**, & Burns, M. K. (2005). Using curriculum-based assessment and curriculum-based measurement to guide elementary mathematics instruction: Effect on individual and group accountability scores. *Assessment for Effective Intervention*, *30*, 15-31. <https://doi.org/10.1177/073724770503000302>
33. **VanDerHeyden, A. M.**, Broussard, C., Fabre, M., Stanley, J., Legendre, J., & Creppel, R. (2004). Development and validation of curriculum-based measures of math performance for four-year old children. *Journal of Early Intervention*, *27*, 27-41. <https://doi.org/10.1177/105381510402700103>
34. **VanDerHeyden, A. M.**, Witt, J. C., & Naquin, G. (2003). Development and validation of a process for screening referrals to special education. *School Psychology Review*, *32*, 204-227.

**SELECTED BOOK CHAPTERS**

35. **VanDerHeyden, A. M., & Peltier, C. J.** (2023). Best practices in school applications of the science of math. In P. Harrison, S. Proctor, & J. Grimes (Eds.). *Best Practices in School Psychology, 7<sup>th</sup> Edition, Volume 2* (pp. 253-264). Bethesda, MD: National Association of School Psychologists.
36. Miciak, J., Farmer, R. L., **VanDerHeyden, A.** (in press). Academic assessment. In M. Axelrod & S. Hupp (Eds.), *Investigating school psychology: Pseudoscience, Fringe Concepts, and Controversies*. New York: Routledge.

**SELECTED POLICY GUIDANCE**

37. **VanDerHeyden, A. M., & von der Embse, N.** (2021). Update to Considerations for Academic and Mental Health Supports Upon the Return to School. National Association of School Psychologists, Ask the Experts Series.
38. **VanDerHeyden, A. M.** (2020). Considerations for Math Intervention Upon the Return to School. National Association of School Psychologists, Ask the Experts Series. <https://www.nasponline.org/resources-and-publications/resources-and-podcasts/covid-19-resource-center/return-to-school/considerations-for-math-intervention-upon-the-return-to-school>
39. **VanDerHeyden, A. M.** (2020). Considerations for Academic Screening Upon the Return to School. National Association of School Psychologists, Ask the Experts Series. <https://www.nasponline.org/resources-and-publications/resources-and-podcasts/covid-19-resource-center/return-to-school/considerations-for-academic-screening-upon-the-return-to-school>
40. **VanDerHeyden, A. M.** (2020). Considerations for Academic Assessments and Interventions Upon the Return to School, Ask the Experts Series. National Association of School Psychologists. <https://www.nasponline.org/return-to-school-academic>

**SELECTED EDITED HANDBOOKS and AUTHORED BOOKS**

41. VanDerHeyden, A. M., & Muyskens, P. (2023). Supporting Math MTSS through SpringMath. Your Guide to Driving Math Mastery. [https://www.springmath.org/sites/default/files/2023-04/Supporting\\_Math\\_MTSS\\_through\\_SpringMath\\_Guide\\_0223\\_Final\\_Web.pdf](https://www.springmath.org/sites/default/files/2023-04/Supporting_Math_MTSS_through_SpringMath_Guide_0223_Final_Web.pdf)
42. Ysseldyke, J., Chaparro, E., & **VanDerHeyden, A. M.** (2022). *Assessment in Special and Inclusive Education, 14<sup>th</sup> edition*. Pro-Ed.
43. Kovalski, J., **VanDerHeyden, A. M.**, Runge, T., Zirkel, P., & Shapiro, E. (2022). *The RtI Approach to Evaluating Learning Disabilities, 2<sup>nd</sup> Edition*. NY: Guilford.
44. Jimerson, S. Burns, M., & **VanDerHeyden, A. M.** (2016). *Handbook of Response to Intervention, 2<sup>nd</sup> Edition*. New York, NY: Springer. (740 pp.)

**SELECTED PODCASTS**

**VanDerHeyden, A. M.** (2023). The science of math with Amanda VanDerHeyden. A. Stokke's Chalk & Talk, Episode 3. March 25, 2023. <https://podtail.com/en/podcast/chalk-talk-2/ep-3-the-science-of-math-with-amanda-vanderheyden/>

**VanDerHeyden, A. M.** (2022). Curriculum-based measures for math calculations for ed diagnosticians. May 6, 2022. Hosted by M. Pater-rov.

[https://www.clubhouse.com/room/maWble2K?utm\\_medium=ch\\_room\\_xerc&utm\\_campaign=o2gqup145d-S3J2Qbv7M6g-180878](https://www.clubhouse.com/room/maWble2K?utm_medium=ch_room_xerc&utm_campaign=o2gqup145d-S3J2Qbv7M6g-180878)

**VanDerHeyden, A. M.** (2022). The Science of Math. G. Ashman's podcast, March 7, 2002. <https://www.podbean.com/ew/pb-cangs-11c637c>

**VanDerHeyden, A. M. & Burns, M. K. (2022).** School Psyched Podcast, Episode 151: Progress Monitoring, Data, and Expected Growth. <https://www.youtube.com/live/6EQIcLDeDIs?feature=share>

**VanDerHeyden, A. M. (2022).** Practice Update: How to Use MTSS for Better Results. Podcast recorded at NASP, February 27, 2022. <https://apps.nasponline.org/resources-and-publications/podcasts/player.aspx?id=335>

**VanDerHeyden, A. M. (2021).** The passion and science of math with Amanda VanDerHeyden. Homework is Stupid podcast. February 7, 2021. <https://www.homeworkisstupid.com/blog/the-passionandscienceofmath>

**VanDerHeyden, A. M. (2021).** SPP 110: Hitting the Ground Running Next School Year with Dr. VanDerHeyden. Episode 110 of the School Psyched Podcast. Recorded: August 16, 2020. <https://youtu.be/uvsoKMT8T0o>

**VanDerHeyden, A. M. (2020).** SPP 106: The Science of Math. Episode 106 of the School Psyched Podcast. Recorded: June 7, 2020. <https://youtu.be/3IuCyDIgqtA>

**VanDerHeyden, A. M., & Coddling, R. S. (2020).** Belief-based versus Evidence-based practices in math assessment and intervention: What School Psychologists Need to Know to Improve Student Outcomes. Research-Based Practice. Episode 13, 5 parts, on PaTTANpod. Produced by the PA DOE. Released: March 2, 2020. <https://www.youtube.com/watch?v=XCe0JXKeQIg>

**VanDerHeyden, A. M. (2019).** Matching intervention to Students' needs. Episode 24 on PaTTANpod. Produced by the PA DOE. Released: August 12, 2019. <https://youtu.be/5p2zR4nkbs4>

**VanDerHeyden, A. M. SPP 81: Why Do School Psychologists Cling to Ineffective Practices? Let's Do What Works.** Episode 81 of the School Psyched Podcast. Recorded: March 17, 2019. [https://youtu.be/NuHBZ2i68\\_E](https://youtu.be/NuHBZ2i68_E)

### **INVITED KEYNOTES AND FEATURED PRESENTATIONS**

Stollar, S., & **VanDerHeyden, A. M.** Focusing on the core: Key features of MTSS for reading and math. Fargo, ND June 12, 2023.

**VanDerHeyden, A. M.** PaTTAN Science of Math conference. Two sessions: Core instruction in mathematics. Math assessment. June 14, 2023.

**VanDerHeyden, A. M.** EdWeek K-12 Essentials Forum: Math. May 25, 2023.

**VanDerHeyden, A.M.** University of Arizona at Chandler, two live guest lectures to school psychology graduate students. Eight presentations to local school districts using SpringMath as part of University of Arizona grant.

**VanDerHeyden, A. M. (2021-2022)** 3-part series for VT Association of School Psychology (Oct 2022, Jan 2023; March 2023): Screening with VanDerHeyden & Stollar; Classwide intervention with VanDerHeyden & Burns; Individual intervention and determining eligibility using RTI with VanDerHeyden & Runge.

**VanDerHeyden, A. M.** The RTI Approach to Evaluating Learning Disabilities. Keynote for Washington Administrators Improving Multi-Tiered Systems (AIMS). Tacoma, Washington, March 1, 2023.

**VanDerHeyden, A. M., Burns, M. K., & Runge, T.** Tier 1.5: Class-Wide Intervention in Reading, Writing, and Math. NASP, Denver, CO, 2023.

Solomon, B., **VanDerHeyden, A. M., & Payne, L.** Mastering Math: Innovations in Assessment to Inform Instruction. NASP, Denver, CO, 2023.

Speaker series & research week keynotes in 2023: Vanderbilt University, Tulane University, Mississippi State University

Guest lectures in 2022-2023: University of Minnesota, Appalachian State University, University of Arizona at Chandler, University of Oregon.

**VanDerHeyden, A. M.** (2022). *Scientific Bases of Mathematics Instruction: Avoiding Myths, Embracing Evidence, & Advancing Student Learning*. Think Forward Educators Australia.

**VanDerHeyden, A. M.** (2022). Working in Math MTSS: The opportunities and the challenges. Keynote to participants in Spencer, M. Addressing Learning Loss and the Social Emotional Needs of Arizona Title 1 Schools: Use of a School Psychology Graduate Student Training Model to Implement Multi-Tier Systems of Supports. University of Arizona at Chandler. Chandler, Arizona, September 28, 2022.

Guest lectures in 2020-2021: New York State University at Albany, University of Oklahoma, University of Arkansas, University of Alabama, Kent State University.

**VanDerHeyden, A. M.** (2021). Lessons learned in 15 years of MTSS. Keynote at Branching Minds MTSS Summit.

**VanDerHeyden, A. M.** (2022). The science of math: MTSS & eligibility. Breakout session to Dyslexia Beyond Awareness: Focusing on the Science of Reading, May 13, 2022.

**VanDerHeyden, A. M., & Hasbrouk, J.** (2021). The Science of Reading, Science of Math, MTSS, and Equity (LS013). Live session at Annual Meeting of National Association of School Psychologists. February 25, 2021.

**VanDerHeyden, A. M.** (2021). Lessons learned from 15 years of RtI/MTSS: Meeting the needs of all learners. AASA (The School Superintendent's Association). February 18, 2021.

**VanDerHeyden, A. M.** (2020). Adoption of new technologies in schools. China Annual Conference for International Education. October 27, 2020.

**VanDerHeyden, A. M.** (2020). New York State RTI Leaders. Approaches to instruction to handle the new normal: Preparing teachers for back to school. November 18, 2020.

**VanDerHeyden, A. M.** (2020-2021). International MTSS Online Forum Series. Three dates (October, January, April). Data-Based Decision Making in MTSS. How to Set Your Own Cutscores for Reading Screening. How to Set Your Own Cutscores for Math Screening. Live Data Consults to School Systems.

**VanDerHeyden, A. M.** (2020-2021). National Association of School Psychologists "Ask the Experts" Series (4 sessions): Screening, Classwide Intervention, Back-to-School interview and updates.

**VanDerHeyden, A. M.** (2019). Making the Case for RtI in International Schools: Understanding Core Philosophy and Science Challenges. Opening Keynote at the RtI for International Schools Summit, Inaugural conference. Singapore. October 24, 2019.

Ysseldyke, J., Reschly, D., & **VanDerHeyden, A. M.** (2019). Stop and think: Why do what doesn't work? National Association of School Psychologists. Atlanta, GA. February 28, 2019.

**VanDerHeyden, A. M.** (2018). What might artificially intelligent mathematics intervention look like in schools? Gates Foundation, K-12 math team. Seattle, WA. November 1, 2018.

**VanDerHeyden, A. M.** (2017). Multi-Tiered Systems of Support: Considerations & Adaptive Leadership. Keynote to State Personnel Development Grant Annual Meeting (SPDG). Washington, DC.