

***Karen E. Rambo-Hernandez, Ph.D.***<https://orcid.org/0000-0001-8107-2898>

362 Harrington Tower  
 College of Education and Human Development  
 Texas A&M University  
 College Station, Texas 77843-4232

[rambohernandez@tamu.edu](mailto:rambohernandez@tamu.edu)

Office: 979.845.5312

Fax: 979.845.9663

**EDUCATION*****Ph.D. in Educational Psychology***

- ◆ Specialization in Measurement, Evaluation, and Assessment, University of Connecticut- Main Campus, Storrs, Connecticut, 2011
- ◆ Dissertation: *How much do schools matter? Using summer growth patterns to assess the impact of schools on high achieving and gifted students.* Chair: D. Betsy McCoach. Committee: Del Siegle, H. Jane Rogers, H. Swaminathan, Megan E. Welsh.
- ◆ Program Evaluation Certificate, 2011

***Master of Education***

- ◆ Educational Administration, Texas A&M University - Commerce, Texas. May, 2002.

***Bachelor of Science in Education***

- ◆ Distinction in Mathematics, Elementary Education with specialization in Mathematics. East Texas Baptist University, Marshall, Texas. May, 1997. *Summa cum laude.*

**ACADEMIC APPOINTMENTS**

<b>Associate Professor</b>	2019 to Present
College of Education and Human Development, Department of Teaching, Learning, and Culture: STEM Education and Department of Educational Psychology: Research, Measurement, and Statistics	
Texas A&M University	
<b>Associate Professor</b>	2018 to 2019, affiliate 2019-2022
College of Education and Human Services, Department of Learning Sciences and Human Development	
West Virginia University	
<b>Assistant Professor</b>	2014 to 2018
College of Education and Human Services, Department of Learning Sciences and Human Development	
West Virginia University	
<b>Assistant Professor</b>	2011- 2014
School of Education and School of Teacher Education and Principal Preparation	
Colorado State University	

## GRANTS

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### ***Current Federal Funding***

NSF-ITEST: *Collaborative Research: Embodied Interactive Environment for Advancing Data Sensing and Computational Thinking Skills in the Built Environment* (TAMU Lead). Chuma Nnaji (PI), **Karen Rambo-Hernandez**, & Ann McNamara (Co-PIs). (2023-2027: \$667,156 of \$1,300,000 to TAMU).

U.S. Department of Education Javits Grant: *Appalachian Coders*. Carla Brigandi (PI), **Karen Rambo-Hernandez** (Co-PI), Nancy Spillane (Co-PI). (2019-2024: \$629,030).

NSF- EEC: *Research Initiative: A Holistic Cross-Disciplinary Project Experience as a Platform to Advance the Professional Formation of Engineers*. Kakan Dey, PI. Julia Fraustino, David Martinelli, Dimitra Pyrialakou, John Deskins, Co-PIs, **Karen Rambo-Hernandez** & Abhik Roy (STEM mentor, senior personnel). Award Number: 1927232. (2019-2022, \$200,000).

NSF-DUE IUSE: *Collaborative Research: Cultivating Inclusive Identities of Engineers and Computer Scientists: Expanding Efforts to Infuse Inclusive Excellence in Undergraduate Curricula*. **Karen Rambo-Hernandez** (PI at WVU), Melissa Morris, Robin Hensel (Co-PIs at WVU), Rebecca Atadero (PI at Colorado State), Christina Paguyo (PI at University of Denver) Jody Paul (PI at Metro State). Award Number at TAMU/WVU: 2033129 (previously 1725880) (2017-2024, \$2,135,000 total/ \$952,668 to TAMU/WVU).

### ***Current Internal Funding***

T3: Texas A&M Triads for Transformation: *The Impact Of Covid-19 On Student Persistence*. Karen Rambo-Hernandez (PI), Bimal Nepal, Noemi Mendoza-Diaz (Co-PIs). (2021-2022, \$32,000).

PRISE: Prairie View: *Analyzing Impact of Covid-19 on Student Learning and Persistence: A Multi-Dimensional Study*. Camille Burnett (PI), Bimal Nepal, Karen Rambo-Hernandez (Co-PIs). (2021-2022, \$30,000).

### ***Submitted for Funding***

McKeown, D., Wijekumar, K., FitzPatrick, E., Liew, J., **Rambo-Hernandez, K.**, Owens, J., & Camping, A. (Submitted 06.02.2022). *POWER | Powerful Online Writing Education and Research*. Department of Education, Office of Elementary and Secondary Education (OESE): Office of Discretionary Grants & Support Services: Supporting Effective Educator Development (SEED) Program, Assistance Listing Number (ALN) 84.423A. (\$11,768,989 across 3 years).

McKeown, D., Wijekumar, K., Camping, A., Liew, J., & **Rambo-Hernandez, K.** (Submitted, 2022). *WRITERS in Community: Writing to Reason, Inform Truth, Emotionally Reflect, and Support in Community*. U. S. Department of Education, Office of Elementary and Secondary Education (OESE), Education Innovation and Research (EIR) Competitions. Mid-Phase (84.411B). [7,999,376 across 5 years].

***Prior Funding***

Texas Education Agency. *Transition to Electronic State Assessments*. Hersh Waxman (PI), Cheryl Craig, **Karen Rambo-Hernandez**, Jacqueline Stillisano, & Kim Wright, (Co-PI). (2020-2021: \$421,056).

West Virginia Higher Education Commission. Improving Teacher Quality State Grants (ITQ): *Improving Middle School Math Education through Project-based Learning*. Afrin Naz (PI), Ming Lu, **Karen Rambo-Hernandez** (Co-PI). (2017-2018, ~\$70,000)

AERA Education Service Project. *Closing the Excellence Gap: Understanding how to Promote High Achievement with Students from Underserved Populations in STEM*. Carla Brigandi and **Karen Rambo-Hernandez** (Co-PIs). (2017-2018, \$5,000).

West Virginia Higher Education Commission. Improving Teacher Quality State Grants (ITQ): *Employing Project-Based Learning to Address the Next Generation Science Standards in Middle Schools*. Afrin Naz (PI), Ming Lu, **Karen Rambo-Hernandez** (Co-PI). (2016-2017, ~\$70,000)

NSF-DUE IUSE: *[EI]<sup>2</sup>-Exploring Inclusive Engineering Identities*. Rebecca Atadero (PI), **Karen Rambo-Hernandez** (Co-PI/ PI at WVU). Award number: 1432601 (2014-2017, \$200,000).

WVU Summer Grant. *Closing the Excellence Gap: Understanding how to Promote High Achievement with Students from Underserved Populations in STEM*. Carla Brigandi and **Karen Rambo-Hernandez** (Co-PIs). (2016, \$5,500).

Improving Teacher Quality State Grants (ITQ): *Improving High School Teachers' Math Knowledge and Skills*. Afrin Naz (PI), Ming Lu, **Karen Rambo-Hernandez** (Co-PI). (2015-2016, \$61,125).

U.S. Department of Education: Jacob K. Javits Gifted and Talented Students Education Program: *Expanding Excellence: Mitigating Advanced Achievement Disparities through a Response to Intervention System*. Chrystyna Murskey (PI), Pamela Clinkenbeard, Scott Peters, **Karen Rambo-Hernandez** (co-PIs). (2015-2018, \$1,130,000). *Note: Due to contractual issues, I stepped off this grant as of March, 2016.*

NSF-RIGEE, *Research Initiation Grant: Problem/Project-Based Learning in Statics, a Stepping Stone to Engineering Education Research*. Rebecca Atadero PI; Darrell Fontane, Meena Balgopal, **Karen Rambo-Hernandez**, Co-PIs. Award number: 1137023 (2011-2014, \$150,000).

**HONORS**

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***Research Awards***

- Early Scholar Award, National Association of Gifted Children- 2019
- Nominated for West Virginia University College of Education and Human Services Research Award 2017, 2018, 2019

- Outstanding Scholarship Award from *The Journal of Family and Consumer Sciences* for the article entitled: “Building Middle School Girls' Self-Efficacy, Knowledge, and Interest in Math and Science through the Integration of Fashion and STEM” 2017
- Best Paper Award in First-Year Programs Division (FPD) ASEE Annual Conference and Exhibition for "Creating Inclusive Environments in First-Year Engineering Classes to Support Student Retention and Learning" 2015
- First Place Paper in Best Diversity Paper Competition, ASEE Annual Conference and Exhibition for "Creating Inclusive Environments in First-Year Engineering Classes to Support Student Retention and Learning" 2015
- National Association for Gifted Children Research and Evaluation Network- Dissertation Award, Second place. 2012
- National Association for Gifted Children Research and Evaluation Network Research Gala- Third Place for In-Progress Doctoral Research, 2011

### ***Fellowships***

- America Psychological Foundation’s (APF) Esther Katz Rosen Fellowship for Research and Programs on Giftedness in Children, \$25,000 - 2010
- Northwest Evaluation Association’s Kingsbury Center Data Award. Summer 2010.

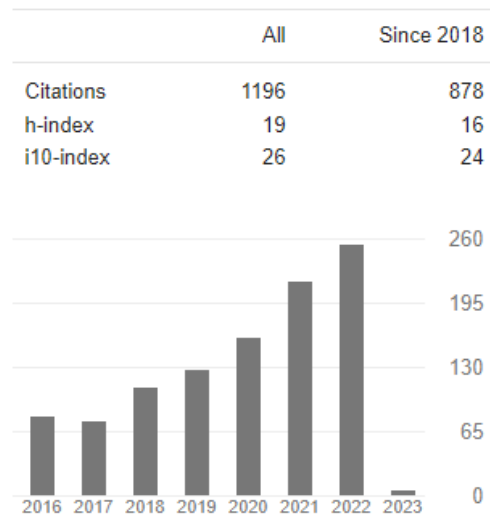
### ***Teaching Awards***

- Nominated for *West Virginia University College of Education and Human Services Teaching Award* 2015, 2016, 2017, 2018
- *Secondary Teacher of the Year*- Coppell Independent School District 2006-2007
- *Teacher of the Year*- Coppell Middle School North 2005-2006
- *Raytheon Math Hero Award* recipient and grant winner- \$5,000- 2006

### ***Other Awards***

- Nominated for the Provost's Awards for Excellence in Public Engagement- Graduate Student, University of Connecticut- nominee 2010
- American Psychological Association Division 15 (Educational Psychology) Doctoral Student Research Seminar selected participant. August 2010
- Coach of MATHCOUNTS® fourth place Texas state team 2006
- Coach of Top 10 student MATHCOUNTS® Texas 2006, 2005
- Coppell Education Foundation grant recipient- Fall 2005
- Dean's List with Honors every semester- East Texas Baptist University 1993-1997

## PUBLICATION INDICES (Jan. 2023)



## JOURNAL PUBLICATIONS

Note: <sup>†</sup> indicates post-doc, \* indicates graduate student, \*\* indicates an undergraduate student

36. Pedersen, B., Makel, M. C., **Rambo-Hernandez, K. E.**, Peters, S. J., & Plucker, J. (accepted for publication). Most Mathematics Classrooms Contain Wide-Ranging Achievement Levels. *Gifted Child Quarterly*.
35. Brigandi, C. B., Spillane, N. K., **Rambo-Hernandez, K. E.**, & Stone, J.\* (2022). Teaching in the time of COVID-19: A Biological Systems Theory Approach. *Frontiers in Education*.  
<https://doi.org/10.3389/feduc.2022.964492>
34. Wu, X.\* , **Rambo-Hernandez, K. E.**, Fuller, E., & Deshler, J. (2022). Predicting STEM Persistence from Mathematics Affect, Pedagogical Perceptions, and Calculus I Setting. *International Journal of Mathematical Education in Science and Technology*.  
<https://doi.org/10.1080/0020739X.2022.2107957>
33. Moore, M., **Rambo-Hernandez, K. E.**, McDonald, T.\* (2022). Consonant age of acquisition reveals nonlinear effects in nonword repetition performance. *Journal of Psycholinguistic Research*, 51, 1347-1370. <https://doi.org/10.1007/s10936-022-09901-8>
32. Casper, A.M.<sup>†</sup>, **Rambo-Hernandez, K. E.**, Park, S.\* , Atadero, R.A. (2022). The impact of emergency remote learning on students in engineering and computer science in the United States: An analysis of four universities. *Journal of Engineering Education*. DOI: [10.1002/jee.20473](https://doi.org/10.1002/jee.20473)

31. Patchan, M. M., **Rambo-Hernandez, K. E.**, Deitz, B.\* N., McNeill, J.\* (online first 2022). Using peer assessment to improve middle school mathematical communication. *Journal of Educational Research*. <https://doi.org/10.1080/00220671.2022.2074948>
30. **Rambo-Hernandez, K. E.**, Makel, M., Peters, S., & Worley, C.\*(2021). Differential return on investment: Academic growth in Mathematics and Reading based on initial performance. Stage 2 Registered Report. *British Journal of Educational Psychology*. <http://doi.org/10.1111/bjep.12479>
29. **Rambo-Hernandez, K. E.**, Atadero, R. A., Paguyo, C., Morris, M., Park, S.\*, Casper, A. M.<sup>†</sup>, Pedersen, B. A.\*, Schwartz, J.\*, Hensel, R. (2021). Valuing Diversity and Enacting Inclusion in Engineering (VDEIE): Initial Validity Evidence for a New Scale. *International Journal of Engineering Education*. [www.ijee.ie/latestissues/Vol37-5/19\\_ijee4112.pdf](http://www.ijee.ie/latestissues/Vol37-5/19_ijee4112.pdf)
28. Roy, A., & **Rambo-Hernandez, K. E.** (2021). There's so much to do and not enough time to do it! A case for sentiment analysis to derive meaning from open text using student reflections of engineering activities. *American Journal of Evaluation*. <https://doi.org/10.1177/1098214020962576>
27. Peters, S., Makel, M., & **Rambo-Hernandez, K. E.** (2021). Local norms for gifted and talented student identification: Everything you need to know. *Gifted Child Today*.
26. Dixon, D. D., Peters, S. C., Makel, M. M., Jolly, J. L., Matthews, M. S., Miller, E. M., **Rambo-Hernandez, K.E.**, Rinn, A. N., Robbins, J. H., Wilson, H. E. (2020). A call to reframe gifted education as maximizing learning. *Phi Delta Kappa*. <https://kappanonline.org/call-reframe-gifted-education-maximizing-learning-dixson-peters-makel/> *Note: Authors four through ten are alphabetically listed.*
25. Peters, S. J., **Rambo-Hernandez, K. E.**, Makel, M. C., Matthews, M. S., & Plucker, J. A. (2020). Reflections on the Registered Report Process for “Effect of Local Norms on Racial and Ethnic Representation in Gifted Education”. *AERA Open*. 6(2), <https://doi.org/10.1177/2332858419848446>
24. Stewart, J., Henderson, R\*., Michaluk, L., Deshler, J., Fuller, E., & **Rambo-Hernandez, K. E.** (2020). Using the Social Cognitive Theory Framework to Chart Gender Differences in the Developmental Trajectory of STEM Self-Efficacy in Science and Engineering Students. *Journal of Science Teaching and Technology*. <https://doi.org/10.1007/s10956-020-09853-5>
23. Brigandi, C. B., & **Rambo-Hernandez, K. E.**, Schwartz, J. C.\* (2020). Closing the excellence gap: Exploring the impact of an innovative high school program for high potential first generation students. *Gifted and Talented International*. <https://doi.org/10.1080/15332276.2020.1774944>
22. Lakin, J. M., & **Rambo-Hernandez, K. E.** (2019) Fidelity of Implementation: Understanding Why and When Programs Work. *Gifted Child Today*, 42, 205-214. <https://doi.org/10.1177/1076217519862327>

21. **Rambo-Hernandez, K. E.**, Peters, S., & Plucker, J. (2019). Quantifying and exploring excellence gaps across schools and time. *Journal of Advanced Academics*, 30. 383-415. <https://doi.org/10.1177/1932202X19864116>
20. Peters, S., **Rambo-Hernandez, K. E.**, Makel, M., Matthews, M., & Plucker, J., (2019). The effect of local norms on racial and ethnic representation in gifted education. *AERA Open*. <https://doi.org/10.1177/2332858419848446>
19. Song, Y\*., Harvey, S. Hannon, H., **Rambo-Hernandez, K. E.**, Jones, E., & Bulger, S. (2018). The impact of different game types and sports on college students' physical activity and motivation in basic instruction program settings. *International Journal of Kinesiology and Sports Science*, 6(4), 10-20. Doi: [10.7575/aiac.ijkss.v.6n.4p.10](https://doi.org/10.7575/aiac.ijkss.v.6n.4p.10)
18. Atadero, R. E., Paguyo, C., **Rambo-Hernandez, K. E.**, & Henderson, H. L\*. (2018). Building inclusive engineering identities: Implications for changing the engineering culture. *European Journal of Engineering Education*, 43, 378-398. [doi.org/10.1080/03043797.2017.1396287](https://doi.org/10.1080/03043797.2017.1396287)
17. Balgopal, M. M., Casper\*, A. A., Atadero, R. A., & **Rambo-Hernandez, K. E.** (2017). Responses to different types of inquiry prompts: college students' discourse, performance, and perceptions of group work in an engineering class. *International Journal of Science Education*, 39, 1625-1647. [doi.org/10.1080/09500693.2017.1346847](https://doi.org/10.1080/09500693.2017.1346847)
16. **Rambo-Hernandez, K. E.**, Atadero, R.A., & Balgopal, M.M. (2017). The impact of group design projects in engineering on achievement goal orientations and academic outcomes. *Educational Psychology*, 37, 1242-1258. [doi.org/10.1080/01443410.2017.1330947](https://doi.org/10.1080/01443410.2017.1330947)
15. Hyllegard, K., **Rambo-Hernandez, K. E.**, & Ogle, J. (2017). Fashion FUNdamentals: Building middle school girls' self-esteem and interest in STEM. *Journal of Women and Minorities in Science and Engineering*, 23, 87-99. DOI: [10.1615/JWomenMinorScienEng.2017018331](https://doi.org/10.1615/JWomenMinorScienEng.2017018331)
14. Ogle, J. P., Hyllegard, K. H., **Rambo-Hernandez, K.**, & Park, J. (2017). Building middle school girls' self-efficacy, knowledge, and interest in math and science through the integration of fashion and STEM. *Journal of Family and Consumer Sciences*, 109, 33-40. DOI: <https://doi.org/10.14307/JFCS109.4.33>
13. Peters, S. J., **Rambo-Hernandez, K. E.**, Makel, M. C., Matthews, M. S., & Plucker, J. A. (2017). Should millions of students take a gap year? Large numbers of students start the school year above grade level. *Gifted Child Quarterly*, 61, 229-238. <https://doi.org/10.1177/0016986217701834>
12. Plucker, J. A., Matthews, M. S., Makel, M. C., Peters, S. J., & **Rambo-Hernandez, K. E.** (2017). Blazing new trails: Strengthening policy research in gifted education. *Gifted Child Quarterly*, 61, 210-218. <https://doi.org/10.1177/0016986217701838>
11. Moilanen, K. L., & **Rambo-Hernandez, K. E.** (2017). Effects of maternal parenting and mother-child relationship quality on short-term longitudinal change in self-regulation in early adolescence. *The Journal of Early Adolescence*, 37, 618-641. DOI:[10.1177/0272431615617293](https://doi.org/10.1177/0272431615617293)

10. **Rambo-Hernandez, K. E.**, & Warne, R. T. (2015). Measuring the outliers: An introduction to out-of-level testing with high-achieving students. *Teaching Exceptional Children*, 47, 199-207. DOI: [10.1177/0040059915569359](https://doi.org/10.1177/0040059915569359)
9. **Rambo-Hernandez, K. E.**, & McCoach, D. B. (2015). High achieving and average students' reading growth: Contrasting school and summer trajectories. *Journal of Educational Research*, 108, 112-129. DOI: [10.1080/00220671.2013.850398](https://doi.org/10.1080/00220671.2013.850398)
8. Atadero, R., **Rambo-Hernandez, K. E.**, and Balgopal, M. (2015). Why group design projects can improve retention. *Prism*. Available at: <http://www.asee-prism.org/2015/05/page/9/>
7. Atadero, R., **Rambo-Hernandez, K. E.**, & Balgopal, M. M. (2015). Using social cognitive career theory to assess student outcomes of group design projects in statics. *Journal of Engineering Education*, 104, 55-73. DOI: [10.1002/jee.20063](https://doi.org/10.1002/jee.20063)
6. McCoach, D., Gubbins, J., Foreman, J., Rubenstein, L., & **Rambo-Hernandez, K.**, (2014). Evaluating the efficacy of using pre-differentiated and enriched mathematics curricula for grade 3 students: A multisite cluster-randomized trial. *Gifted Child Quarterly*, 58, 272-286. DOI: [10.1177/0016986214547631](https://doi.org/10.1177/0016986214547631)
5. Ryser, G., & **Rambo-Hernandez, K. E.** (2014). Using growth models to measure school performance: Implications for gifted learners. *Gifted Child Today*.
4. Hernandez, P. R., Bodin, R., Elliott, J. W., Ibrahim, B., **Rambo-Hernandez, K. E.**, Chen, T., de Miranda, M.A. (2014). Connecting the STEM Dots: Measuring the Effect of an integrated engineering design intervention. *International Journal of Technology and Design Education*, 24, 107-120. DOI [10.1007/s10798-013-9241-0](https://doi.org/10.1007/s10798-013-9241-0)
3. McCoach, D., **Rambo, K. E.**, & Welsh, M. (2013). Assessing gifted students' growth: A primer and recommendations. *Gifted Child Quarterly*. DOI: [10.1177/0016986212463873](https://doi.org/10.1177/0016986212463873)
2. **Rambo, K. E.**, & McCoach, D. (2012). Teacher attitudes toward subject-specific acceleration: Instrument development and validation. *Journal for the Education of the Gifted*, 35, 129-152. DOI [10.1177/0162353212440591](https://doi.org/10.1177/0162353212440591)
1. McCoach, D., Goldstein, J., Behuniak, P., Reis, S., Black, A., Sullivan, E., & **Rambo, K. E.** (2010). Examining the unexpected: Outlier analyses of factors affecting student achievement. *Journal of Advanced Academics*, 21, 426-458.

## ACCEPTED PHASE 1 REGISTERED REPORTS

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2. **Rambo-Hernandez, K. E.**, Makel, M., Peters, S., & Worley, C.\* (Stage 1 registered report, accepted July 2020, Phase 2 listed in publications above). Differential return on investment: Academic growth based on initial performance. *British Journal of Educational Psychology*.



1. Peters, S., **Rambo-Hernandez, K. E.**, Makel, M., Matthews, M., & Plucker, J., (Stage 1 registered report, accepted March 2018, Phase 2 listed in publications above). The effect of local norms on racial and ethnic representation in gifted education. *AERA Open*.  
<https://doi.org/10.1177/2332858419848446>

## PREPRINTS

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- Pedersen, B., Makel, M. C., **Rambo-Hernandez, K. E.**, Peters, S. J., & Plucker, J. (2021, September 27). Most Mathematics Classrooms Contain Wide-Ranging Achievement Levels. Retrieved from <https://osf.io/3r6a5/>

## REFEREED CONFERENCE PROCEEDINGS

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*Note: † indicates post-doc, \* indicates graduate student, \*\*indicates an undergraduate student*

16. Leutenegger, S. T., Gauthier Dickey, C., Adelman, R. B., Norman, T., Atadero, R., **Rambo-Hernandez, K. E.**, Paguyo, C. H. (July, 2022). *ITiCSE '22: Proceedings of the 27th ACM Conference on on Innovation and Technology in Computer Science Education*, 1, 186-192, <https://doi.org/10.1145/3502718.3524803>
15. Pedersen, B. A.\*, & **Rambo-Hernandez, K. E.** (June, 2022). *Perceived Value of Diversity and Persistence Intentions*. Paper to be presented at 2022 ASEE Annual Conference and Exposition, Minneapolis, MN, United States.
14. Callahan, S\*., Pedersen\*, B., L., Burnett, C., Nepal, B., & **Rambo-Hernandez, K.**, (2022, June 26–29). *Work in Progress - Persistence and the Pandemic: Retention of Historically Underrepresented First-Year Engineering Students Before and After COVID-19*. Paper to be presented at 2022 ASEE Annual Conference and Exposition, Minneapolis, MN, United States.
13. Thomas, S., Patrick, C., Wade, P., Jaison, D.\*\*, Hammond, T. A., Moore, J. M., ... **Rambo-Hernandez, K. E.**, & Watson, K. (2021, August). *Creating a Supportive Space for Teaching-Focused Faculty to Write About their Teaching*. 2021 First-Year Engineering Experience Conference.
12. Ali, S.\*, **Rambo-Hernandez, K. E.** & Curtis, R. (2021, July ). *An Examination of Perceived Climate, Identity and Belongingness among Undergraduate Women in Engineering*. Proceedings of the 127th Annual Conference & Exposition. American Society for Engineering Education. ASEE.
11. Park, S.\*, Atadero, R., Casper, A. †, **Rambo-Hernandez, K. E.**, Paul, J., Morris, M., Griffin, C., DeLyser, R., Paguyo, C., & Leutenegger, S. (2020, June). *Partnership for equity: STEM-engaging with faculty to cultivate inclusive professional identities in engineering and computer science*. Proceedings of the 127th Annual Conference & Exposition. American Society for Engineering Education. ASEE.

10. Dey, K., Pyrialakou, D., Martinelli, D., & **Rambo-Hernandez, K. E.** (2020, June). *Development of A holistic cross-disciplinary project course experience as a research platform for the professional formation of engineers*. Proceedings of the 127th Annual Conference & Exposition. American Society for Engineering Education. ASEE.
9. Pyrialakou, D., Dey, K., Martinelli, D., & **Rambo-Hernandez, K. E.** (2020, March). *Holistic engineering: A concept exploration in a cross-disciplinary project course experience*. North Central American Society of Engineering Education (conference cancelled). Morgantown, WV.
8. **Rambo-Hernandez, K. E.**, Morris, M., Casper, A.<sup>†</sup>, Hensel, R., & Schwartz, J.\* (2019, June). *Examining the effects of equity, inclusion, and diversity activities in first-year engineering courses*. Proceedings of the 126th Annual Conference & Exposition. American Society for Engineering Education. ASEE.
7. **Rambo-Hernandez, K. E.**, Roy, A., Morris, M., Hensel, R., Schwartz, J\*., Atadero, R. A., & Paguyo, C. (April 2018). *Using interactive theater to promote inclusive behaviors in teams for first-year engineering students: A sustainable approach*. Paper presented at the American Society for Engineering Education Collaborative Network for Engineering and Computing Diversity.
6. Henderson, H. L.\* , **Rambo-Hernandez, K. E.**, Atadero, R. A., & Paguyo, C. (June 2017). *The effect of gender on the relationship between implicit theories of intelligence and engineering identity: A longitudinal study*. Proceedings of the 124th Annual Conference & Exposition. American Society for Engineering Education. ASEE.
5. **Rambo-Hernandez, K. E.**, Atadero, R. A., Paguyo, C., & Schwartz, J.\* (June 2017). *Inclusive engineering identities: Two new surveys to assess students' inclusive values and behaviors*. Proceedings of the 124th Annual Conference & Exposition. American Society for Engineering Education. ASEE.
4. Garner, C.\* , **Rambo-Hernandez, K. E.**, Lu, M., & Naz, A. (June 2017). *Improving high school teachers' ability to assess engineering content through project based learning*. Proceedings of the 124th Annual Conference & Exposition. American Society for Engineering Education. ASEE.
3. Paguyo, C., Atadero, R. A., & **Rambo-Hernandez, K. E.**, Francis, J.\* (June 2015). *Creating inclusive environments in first-year engineering classes to support student retention and learning*. Proceedings of the 122th Annual Conference & Exposition. American Society for Engineering Education. ASEE.
2. de Miranda, M.A., Hernandez, P. R., & **Rambo-Hernandez, K. E.** (November 2014). *How interdisciplinary engineering and technology design and making projects impact students and classrooms for sustainable STEM education*. Paper presented at UNESCO World Conference on Education for Sustainable Development. Okayama, Japan.

1. Atadero, R., **Rambo-Hernandez, K. E.**, Balgopal, M., & Casper, A. M.\* (June 2014). *Project-based learning in statics: Curriculum, student outcomes, and ongoing questions*. Proceedings of the 121th Annual Conference & Exposition. American Society for Engineering Education. ASEE.

## EDITED BOOK CHAPTERS

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4. McCoach, D., & **Rambo-Hernandez, K. E.** (2017). Issues in the analysis of change. In C. Secolsky (Ed), *Handbook on Measurement, Assessment, and Evaluation in Higher Education, 2<sup>nd</sup> Edition*, New York, NY US: Routledge Press.
3. **Rambo-Hernandez, K. E.** (2015). Developing mathematical talent: A practical, research-supported approach. In T. Kettler (Ed.), *Modern curriculum for gifted and advanced academic students*. Waco, TX: Prufrock Press.
2. McCoach, D., Madura, J., **Rambo, K.**, O'Connell, A., & Welsh, M.E. (2013). Longitudinal data analysis. In T. Teo (Ed.), *Handbook of quantitative methods for educational research*. Rotterdam, The Netherlands: Sense Publishers.
1. McCoach, D., & **Rambo, K.**, & Welsh, M. E. (2011). Issues in the analysis of change. In C. Secolsky (Ed), *Handbook on Measurement, Assessment, and Evaluation in Higher Education*, New York, NY US: Routledge Press.

## INVITED PRESENTATIONS

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13. **Rambo-Hernandez, K. E.** (October 8, 2022). *One Size Does Not Fit All*. Keynote for Virginia Association for the Gifted. Roanoke, VA.
12. **Rambo-Hernandez, K. E.** (September 5, 2022). *Growth of High Achieving Students: Questions and Hypotheses*. Keynote for North American-European Summit for Talent Development. Haifa, Israel.
11. Peters, S. J. & **Rambo-Hernandez, K. E.** (Feb. 25, 2022). *Deep Dive into Open Scholarship: Preregistration*. Presentation for the Open Science Practices in Educational Research Conference. (authors listed alphabetically)
10. **Rambo-Hernandez, K.E.**, Sodergren, C., Simonds, M., Carmen, C., Peters, S. C. (Dec. 2, 2021). *Local Norms: A Conversation with Coordinators, Administrators, and Researchers*. Invited Panel at the annual Texas Association for Gifted Children Conference.

9. **Rambo-Hernandez, K. E.** (Nov. 16, 2021). *One Size Does Not Fit All: Variability in Achievement, Growth, and Academic Needs in the Typical Classroom*. Presentation for the University of Central Arkansas College of Education.
8. **Rambo-Hernandez, K. E.** (August 10, 2021). *One Size Does Not Fit All: Variability in Achievement, Growth, and Academic Needs in the Typical Classroom*. Keynote for Virginia Beach City Public Schools.
7. Montoya, A. & **Rambo-Hernandez, K. E.** (Feb. 8, 2021). *Deep Dive into Open Scholarship: Preregistration and Registered Reports*. Presentation for the Open Science Practices in Educational Research Conference.
6. Peters, S. C. & **Rambo-Hernandez, K. E.** (Feb. 2, 2021). *How academically diverse is the typical grade-level classroom?* Presentation for the Arizona Superintendent's Association conference.
5. **Rambo-Hernandez, K.E.**, Johnsen, S., Well, A. (June 9, 2020). *Masterminds Keynote*. Texas Association for the Gifted and Talented: Leadership & Gifted + Equity Conference. Online.
4. **Rambo-Hernandez, K. E.** (December 4, 2020). *Local norms boot camp*. Invited presentation for the Texas Association for the Gifted and Talented Annual Conference. Online.
3. **Rambo-Hernandez, K. E.** (April 15, 2020). *Local norms: Nuts, bolts, and benefits*. Invited presentation for the Texas Association for the Gifted and Talented: Leadership Conference. Online.
2. Paguyo, C., Atadero, R. A., & **Rambo-Hernandez, K. E.**, Francis, J.\* (June, 2016). *Promoting inclusive engineering identities in first-year engineering courses*. Plenary at the American Society of Engineering Education Annual Conference and Exposition. New Orleans, LA.
1. McCoach, D., & **Rambo, K. E.** (April, 2012). *Growth modeling and implications for the assessment of gifted students and research in the field*. Invited presentation at the business meeting for the Research on Giftedness, Creativity, and Talent Special Interest Group (SIG) at the national conference of the American Educational Research Association (AERA). Vancouver, BC.

## REFEREED PAPER PRESENTATIONS

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Note: † indicates post-doc, \* indicates graduate student, \*\*indicates an undergraduate student

43. Sanders, M.\*, Hart, H.\*\*, & **Rambo-Hernandez, K.** (2023, March 2-4). *Learning together: Team-based learning in secondary mathematics education*. [Paper presentation]. Proposal submitted to the 50<sup>th</sup> Annual Conference of the Research Council on Mathematics Learning, Las Vegas, Nevada, United States.
42. Atadero, R. A., Casper, A.M., DeLyser, R., Griffin, C., Hensel, R., Leutenegger, S., Morris, M., Paguyo, C., Paul, J., **Rambo-Hernandez, K. E.** (June, 2022). *Partnership for Equity: A Collaborative IUSE Project Surprises along the Path toward Equity in Engineering and Computer*

*Science Education*. Poster to be presented at 2022 ASEE Annual Conference and Exposition, Minneapolis, MN, United States. (Note: Authors are in alphabetical order).

41. Callahan, S.\*, Jaison, D.\*, White, L.\*, **Rambo-Hernandez, K.**, Nepal, B., Watson, K., Mendoza Diaz, N., & Hammond, T. (2022, February 23–25). *Everyone is Lonelier: College Students' Levels of Loneliness Before and After the COVID-19 Transition to Remote Learning* [Conference presentation]. 45th SERA Annual Meeting, New Orleans, LA, United States.
  40. Hernandez, S.\*\*, Nguyen, N.\*\*, Svetlov, N.\*\*, Lopez, J.\*, Pedersen, B.\*, & **Rambo-Hernandez, K.** (2022, February 23-25). *Do first year students' characterizations of good engineers include teamwork, diversity, equity, and inclusion?* [Paper Presentation]. The 45th annual Southwest Education Research Association Conference. New Orleans, LA.
- Note. The first three authors appear in alphabetical order according to their last name.*
39. Brigandi, C., Spillane, N., & **Rambo-Hernandez, K. E.** (March, 2022). *Project Appalachian Coders: An Overview of a 5-Year Initiative to Improve Educational Outcomes for Primary School Students in One Appalachian Community*. Paper presented at Appalachian Studies Association Annual Conference.
  38. Park, S.\*, de Miranda, M. A., **Rambo-Hernandez, K. E.**, Wijekumar, K. K., Davis, T. J., & Huang, R. (April, 2021). *The Effectiveness of Computer-Based Reading Scaffolds on Students' Mathematics Achievements in Algebra Among Low- and High-Achieving Readers*. Paper presented virtually at the 2021 AERA Annual Meeting.
  37. Casper, A. M.<sup>†</sup>, **Rambo-Hernandez, K. E.**, Park, S.\*, Atadero, R. (April, 2021). *Variability in Access and Stress: A Descriptive Study of Student Responses to Remote Emergency Learning at Four Universities*. Paper presented virtually at the 2021 AERA Annual Meeting.
  36. **Rambo-Hernandez, K. E.**, Peters, S. C., Plucker, J. A., Makel, M., Pedersen, B. A\*. (April, 2021). *How Academically Diverse Is the "Grade-Level" Classroom?* Paper presented virtually at the 2021 AERA Annual Meeting.
  35. **Rambo-Hernandez, K. E.**, Makel, M., Peters, S. C., Worley, C.\* (April, 2021). *Differential Return on Investment: Academic Growth Based on Initial Performance*. Paper presented virtually at the 2021 AERA Annual Meeting.
  34. Brigandi, C. B., **Rambo-Hernandez, K. E.**, Spillane, N. (April, 2021). *Appalachian Coders: Building a computer science culture in a rural and low SES primary school*. Paper to be presented virtually at the 2021 AERA Annual Meeting.
  33. Brigandi, C. B., Spillane, N., & **Rambo-Hernandez, K.** (2020). *Gifted education in rural communities (combined concurrent)*. Paper presented at the 2020 National Association for Gifted Children (NAGC) Annual Meeting in Orlando, FL.

32. Paguyo, C., Casper, A., Atadero, R., **Rambo-Hernandez, K. E.**, Iturbe-LaGrave, V., Paul, J., DeLyser, R., Leutenegger, S., & GauthierDickey, C. (2020, Apr 17 - 21) *Assessment Through Self-Reflection: Connecting Research to the Experiences of Leading Higher Education Diversity Initiatives* [Roundtable Session]. AERA Annual Meeting San Francisco, CA  
<http://tinyurl.com/rvelkdo> (Conference Canceled)
31. Hartman\*, M. S., & **Rambo-Hernandez, K. E.** (April 2020). *Examining Potential Promises and Pitfalls of Using Local Norms for Gifted Identification*. Paper presented at the American Educational Research Association Annual Conference. San Francisco, CA. (Conference Canceled).
30. **Rambo-Hernandez, K. E.**, Makel, M., & Peters, S. C. (April 2019). *Differential Return on Investment: Academic Growth based on Initial Performance*. Paper presented at the American Educational Research Association Annual Conference. Toronto, ON.
29. Peters, S., **Rambo-Hernandez, K. E.**, Makel, M., Matthews, M., & Plucker, J., (April 2019). *The Effect of Local Norms on Racial and Ethnic Representation in Gifted Education*. Paper presented at the American Educational Research Association Annual Conference. Toronto, ON.
28. **Rambo-Hernandez, K. E.**, Roy, A. R., Morris, M.E., (April 2019). *Assessing for Improvement: The Use of Artificial Intelligence to Uncover Potential Differential Impact of Assignments*. Paper presented at the American Educational Research Association Annual Conference. Toronto, ON.
27. Patchan, M. M., **Rambo-Hernandez, K. E.**, Dietz\*\*, B. N., Hathaway, K. A\*\*. (June 2018). *Assessing the validity of peer feedback in a sixth grade mathematics class*. Paper presented at the International Society for Learning Sciences. London, England.
26. Paguyo, C. Atadero, R. A., & **Rambo-Hernandez, K. E.** (April 2018). *Partnership for Equity (P4E) in STEM: Assessing Factors that Affect Scale-Up and Dissemination of Curricular Interventions*. Paper presented at the American Educational Research Association Annual Conference. New York, NY.
25. Peters, S. J., **Rambo-Hernandez, K. E.**, & Plucker, J. (April 2017). *The Relationship between Rates of Advanced Math Achievement and Time Spent in School: A Multilevel Exploratory Study*. Paper presented at the American Educational Research Association Annual Conference. San Antonio, TX.
24. Hyllegard, K. H., Ogle, J. P., & **Rambo-Hernandez, K. E.** (November 2016). *Evaluating the outcomes of Fashion FUNdamentals: A STEM education program for middle school girls* [Abstract]. Proceedings from the Seventy-third Annual Conference of the International Textile and Apparel Association, International Textile and Apparel Association.
23. Naz, A., Lu, M., Hatipoglu, K., **Rambo-Hernandez, K. E.** (October 2016). *Employing Project-based Learning to Address the Next Generation Mathematics Standards in High School*. Paper presented at the Frontiers of Education conference. Erie, PA.

22. Atadero, R.A., Paguyo, C., & **Rambo-Hernandez, K. E.**, Henderson, H.\* (April 2016). *Promoting a Culture of Inclusion in First-Year Engineering Courses*. Envisioning the Future of Undergraduate STEM Education: Research and Practice. Washington, DC
21. Moilanen, K. & **Rambo-Hernandez, K. E.** (April 2016). *Effects of Maternal Parenting and Mother-Child Relationship Quality on Self-Regulation During Early Adolescence*. Paper presented at the Society for Research on Adolescence Annual Conference. Baltimore, MD.
20. **Rambo-Hernandez, K. E.**, Peters, S., & Plucker, J. (April 2016). *The Relationship between Excellence Gaps and Time Spent in School: A Multilevel Exploratory Study*. Paper presented at the American Educational Research Association Annual Conference. Washington, DC.
19. Casper, A\*, Atadero, R., Balgopal, M., & **Rambo-Hernandez, K.** (April 2014). *Discourse Between Men and Women During PBL Engineering Group Work*. National Association for Research in Science Teaching. Pittsburgh, PA.
18. Casper, A\*, Atadero, R., Balgopal, M., & **Rambo-Hernandez, K.** (April 2013). *The Impact of Project-Based Group Work on Engineering College Students' Content Knowledge and Affect*. National Association for Research in Science Teaching. Rio Grande, Puerto Rico.
17. Atadero, R., Balgopal, M., **Rambo-Hernandez, K.** and Fontane, D. (March 2013) *Using Project-Based Learning in A Large Statics Course: Is it Worth It?* ASEE Rocky Mountain Section Conference. Pueblo, CO.
16. Mccoach, D. Gubbins, J. **Rambo, K.**, Rubenstein, L. & Foreman, J. (March 2013). *Evaluating the Efficacy of Using Pre-differentiated and Enriched Mathematics Curricula for Grade 3 Students*. Paper presented at the Society for Research on Educational Effectiveness (SREE). Washington, D.C.
15. Hernandez, P.R., Bodin, R., Elliott, J.W., Ibrahim, B., **Rambo-Hernandez, K. E.**, de Miranda, M.A. (May 2012). *Scale Development for Measuring STEM Content Connections in Students Engaged in a Long-Term Integrated Engineering Design Problem*. Paper presented at the Engineering and Design Education Research Summit. Washington, D.C.
14. **Rambo, K.** (May 2012). *Classifying Elementary Students' Reading Growth: An Application of Multilevel Growth Mixture Modeling*. Paper presented at the Modern Modeling Methods conference. Storrs, CT.
13. **Rambo, K.** & McCoach, D (May 2012). *Using Summer Growth Patterns in Reading to Assess the Impact of Schools on Gifted and High Achieving Students*. Paper presented at the Modern Modeling Methods conference. Storrs, CT.
12. **Rambo, K.**, & McCoach, D. (April 2012). *Using summer growth patterns to assess the impact of schools on gifted and high achieving students in reading*. Paper presented at the national conference of the American Educational Research Association, Vancouver, BC.

11. McCoach, D. Gubbins, J., Rubenstein, L. **Rambo, K.**, & Foreman, J. (April 2012). *Who Benefits from Differentiated Math Curricula? Examining School Context and Student Ability within an RCT*. Paper presented at the national conference of the American Educational Research Association, Vancouver, BC.
10. **Rambo, K.** and McCoach, D. (April 2011). *Teacher attitudes toward subject-specific acceleration*. Paper presented at the national conference of the American Educational Research Association, New Orleans, LA.
9. **Rambo, K.** and McCoach, D. (November 2010). *How much do schools matter? Using summer growth patterns to assess the impact of schools on high achieving and gifted students*. Poster presented for the In-Progress Graduate Student Research Gala, Research and Evaluation Network, at the annual conference of National Association for the Gifted and Talented, Atlanta, GA.
8. Goldstein, J. & **Rambo, K.** (October 2010) *Assessing Young Children: An Examination of Variability in Teacher Ratings of Kindergarten Students' Skills*. Paper presented at the annual conference for the Northeast Educational Research Association, Rocky Hill, CT.
7. **Rambo, K.**, Cronin, J., & Ma, L. (April 2010) *Do loosening Virtual Comparison Group selection criteria introduce bias for this quasi-experimental design?* Paper presented at national conference of the American Educational Research Association, Denver, CO.
6. **Rambo, K.** & Kettler, T. (October 2009) *Implementing acceleration: Measuring teacher attitudes and student performance*. Paper presented at the national conference of the National Association for Gifted and Talented, St. Louis, MO.
5. **Rambo, K.** & McCoach, D. (April 2009) *A survey instrument, Teacher attitudes toward grade-skipping and subject-specific acceleration: Underlying factors and predicted behaviors*. Paper presented at the national conference of the American Educational Research Association, San Diego, CA. Poster presented at the annual conference of National Association for the Gifted and Talented, St. Louis, MO.
4. **Rambo, K.** & Siegel, D. (April 2009) *Creativity assessment correlations*. Paper presented at the national conference of the American Educational Research Association, San Diego, CA.
3. **Rambo, K.** (April 2009) *My teacher is better than yours! A comparison of three value-added models for estimating teacher effects*. Paper presented at the national conference of the American Educational Research Association: Division D In-progress research gala, San Diego, CA.
2. **Rambo, K.** & McCoach, D. (October 2008) *Teacher attitudes toward subject-specific acceleration: Underlying factors*. Paper presented at the conference of the Northeast Educational Research Association, Rocky Hill, CT.
1. Rogers, H., Swaminathan, H., **Rambo, K.**, Sen, R., & Oliver, M. (October 2008). *The effect of examinee propensity to omit under formula scoring instructions on estimation of IRT trait and item*



*parameters*. Paper presented at the conference of the Northeast Educational Research Association, Rocky Hill, CT.

## OTHER PUBLICATIONS AND TECHNICAL REPORTS

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9. Lewis, K., **Rambo-Hernandez, K. E.**, Troxclair, D., Kabli, A., Hardin, K. A., Rutledge, S., Miller, U., Meyes, M., Majority, K. (Nov. 29, 2021). What the Research Says: The Impact of Teacher Beliefs on Gifted Education. *Tempo*. <https://tempo.txgifted.org/what-the-research-says-the-impact-of-teacher-beliefs-on-gifted-education/>
8. **Rambo-Hernandez, K. E.** (2018). Evaluation of Improving Teacher Quality State Grants (ITQ) submitted to the West Virginia Higher Education Commission: *Improving Middle School Math Education through Project-based Learning*.
7. **Rambo-Hernandez, K. E.** (2017). Evaluation of Improving Teacher Quality State Grants (ITQ) submitted to the West Virginia Higher Education Commission: *Employing Project-Based Learning to Address the Next Generation Science Standards in Middle Schools*.
6. **Rambo-Hernandez, K. E.** and Garner, C\*. (2016). Evaluation of Improving Teacher Quality State Grants (ITQ) to the West Virginia Higher Education Commission: *Improving High School Teachers' Math Knowledge and Skills*.
5. **Rambo-Hernandez, K. E.** (2016) Evaluation of Honda Foundation. *Fashion FUNdamentals!* Grant. Karen Hyllegard and Jenn Ogle (PI).
4. Gubbins, E.J., McCoach, D.B., Foreman, J.L., Gilson, C.M., Bruce-Davis, M.N., Rubenstein, L.D., Savino, J., **Rambo, K. E.**, Waterman, C.W. (2013) *What works in gifted education mathematics study: Impact of pre-differentiated and enriched curricula on general education teachers and their students*. The National Research Center on the Gifted and Talented. Available at: <http://www.gifted.uconn.edu/nrcgt/gubbmcco.html>
3. **Rambo, K. E.** & Boazman, J. (2012). We all want the same thing. *Parenting for High Potential*, 1(7), 8-11.
2. **Rambo, K. E.** (2011) *Summer Growth Patterns in Gifted Students*. Research Brief for the Kingsbury Center at Northwest Evaluation Association. Available at: [http://www.kingsburycenter.org/sites/default/files/Data%20Award%20Karen%20Rambo%20Research%20Brief\\_0.pdf](http://www.kingsburycenter.org/sites/default/files/Data%20Award%20Karen%20Rambo%20Research%20Brief_0.pdf)
1. **Rambo, K. E.**, Cronin, J., & Ma, L. (2010) *Do loosening Virtual Comparison Group selection criteria introduce bias for this quasi-experimental design?* Northwest Evaluation Association, Portland, OR. Available at: <http://www.kingsburycenter.org/our-research/research-reports-publications>

## PRESS COVERAGE AND PRESS RELEASES

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5. Peters, S. C. & **Rambo-Hernandez, K. E.** (Jan. 28, 2021). What we owe kids who learn at a faster rate. *New York Daily News*. [https://urldefense.com/v3/https://www.nydailynews.com/opinion/nyoped-what-we-owe-kids-who-are-ready-to-learn-at-a-faster-rate-20210128-5pjwrvhmlfhgddsczyq7x4yey4-story.html;!!KwNVnqRv!XyJ6eLhyHM3uMv2DoLhigtecXitX-b8H585SCvUTtwAbivHnnILrUmmcuJcziQDPLJN\\$](https://urldefense.com/v3/https://www.nydailynews.com/opinion/nyoped-what-we-owe-kids-who-are-ready-to-learn-at-a-faster-rate-20210128-5pjwrvhmlfhgddsczyq7x4yey4-story.html;!!KwNVnqRv!XyJ6eLhyHM3uMv2DoLhigtecXitX-b8H585SCvUTtwAbivHnnILrUmmcuJcziQDPLJN$)
  4. **Rambo-Hernandez, K.**, Makel, M. C., Peters, S. J., & Plucker, J. A. (May 5, 2020) *Researchers estimate that students coming back after COVID-19 closures may have greater variance in academic skills*. [https://www.nwea.org/content/uploads/2020/05/Covid-slide-variances\\_press\\_release\\_May-2020\\_FINAL.pdf](https://www.nwea.org/content/uploads/2020/05/Covid-slide-variances_press_release_May-2020_FINAL.pdf)
  3. Peters, S., **Rambo-Hernandez, K. E.**, Makel, M., Matthews, M., & Plucker, J. (May 2019). *Local norms improve equity in gifted education*. The High Flyer Blog post for the National Association for Gifted Children and the Thomas B. Fordham Institute. <https://www.nagc.org/blog/local-norms-improve-equity-gifted-identification>
  2. Makel, M. C., Matthews, M. S., Peters, S. J., **Rambo-Hernandez, K. E.**, & Plucker, J. A.<sup>1</sup> (2016). *How can so many students be invisible? Large percentages of American students perform above grade level*. Johns Hopkins Institute for Educational Policy. Available at: <http://education.jhu.edu/edpolicy/commentary/PerformAboveGradeLevel>
- <sup>1</sup> note all authors contributed equally to this brief
1. **Rambo, K. E.** (2011) *Are Common Core Standards Good or Bad for Education?* Guest blogger for Learning Matters. Available at: <http://learningmatters.tv/blog/web-series/are-common-core-standards-good-or-bad-for-education/8280/>

## OTHER PRESENTATIONS AND PROFESSIONAL DEVELOPMENT

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*Note: \*indicated post-doctoral scholar, \*\* indicates graduate student, \*\*\*indicates an undergraduate student*

23. Atadero, R. A. & **Rambo-Hernandez, K.E.** (June, 2022). *Diversity, inclusion, and equity activities in engineering and computer science classrooms: You can do it, we can help*. Workshop to be presented at 2022 ASEE Annual Conference and Exposition, Minneapolis, MN, United States.
22. Lewis, K., **Rambo-Hernandez, K. E.**, Troxclair, D., Kabli, A., Hardin, K. A., Rutledge, S., Miller, U., Meyes, M., Majority, K. (Dec. 2, 2021). *What the Research Says: The Impact of Teacher Beliefs on Gifted Education*. Presentation at the annual Texas Association for Gifted Children conference.
21. **Rambo-Hernandez, K. E.** (Nov. 16, 2021) A long and winding road: Navigating Life and Career. Invited Presentation for the TAMU Women in Science and Engineering (WISE).

20. **Rambo-Hernandez, K. E.**, Paul, J., Leutenegger, S., DeLyser, R., Paguyo, C., Atadero, R. A., Casper, A.\*, Pedersen, B.\*\* (June 10, 2021). A Multi-Institutional Initiative to Promote Inclusive Professional Identities in Engineering and Computer Science. Poster presented at the Accelerating Systemic Change Network virtual conference.
19. Hernandez, S.\*\*\*, Nguyen, N\*\*\*., Svetlov, N.\*\*\*, Lopez, J.\*\*, Pedersen, B.\*\*, & **Rambo-Hernandez, K. E.** (2021, May 27). Promoting equity and inclusivity in engineering and computer science education [Virtual conference presentation]. in The Aggie Research Program 2021 Conference, College Station, TX, United States. Note: the first three authors appear in alphabetical order.
18. **Rambo-Hernandez, K. E.** (February 2020). *One size does not fit all*. Voices of Impact- College of Education and Human Development, Texas A&M University.
17. Brigandi, C. & Rambo-Hernandez, K. E., (April, 2018). *Closing the Excellence Gap: Understanding How to Promote High Achievement with Students from Underserved Populations*. Poster presented at the American Educational Research Association conference. New York, NY.
16. \*\*Anderson, G., \*\*Modrak, C., \*\*Kiser, A., \*Mikesell, M., **Rambo-Hernandez, K. E.**, & Patchan, M. (2018, April). *The relationship between accuracy and feedback and writing quality among students*. Poster presented at the CEHS Celebration of Scholars, West Virginia University—also presented at WVU’s 2nd Annual Undergraduate Spring Symposium
15. \*\*McNeill, J., \*\*Dietz, B., \*Mikesell, M., **Rambo-Hernandez, K. E.**, & Patchan, M. (2018, April). *Peer vs. teacher feedback: Comparing apples to oranges?* Poster presented at the CEHS Celebration of Scholars, West Virginia University—also presented at WVU’s 2nd Annual Undergraduate Spring Symposium
14. Peters, S. J., **Rambo-Hernandez, K. E.**, & Plucker, J. (November 2016). *Does Time Spent in School Influence Excellence Gaps?* Paper presented at the National Association for Gifted Children Annual Conference. Orlando, FL.
13. Hernandez, P. & **Rambo-Hernandez, K. E.** (November 2014). *Interventions to Promote Womens' Persistence in STEM: Creating Inclusive and Supportive Environments*. Brown Bag Buzz in the College of Education and Human Services at West Virginia University. Morgantown, WV.
12. **Rambo-Hernandez, K. E.** (2013) *High Achieving and Average Students' Reading Growth: Contrasting School and Summer Trajectories*. Methods Matter at Colorado State University. Fort Collins, CO.
11. Hernandez, P. & **Rambo-Hernandez, K.** (January 2012). *A soft introduction to hierarchical linear modeling*. *Engineering and Technology Education Research Methodology Seminar Series*. Purdue University, Tufts University, Virginia Tech, Colorado State University, Utah State University, NCETE. Fort Collins, CO.

10. **Rambo-Hernandez, K.** (January 2012). *What makes a good test question?* Presentation for the Professional Development Institute at Colorado State University, Fort Collins, CO.
9. McCoach, D. & **Rambo, K.** (January 2011). *Norm vs. Criterion Referenced Grading.* Presentation for the University of Connecticut Winter Faculty Institute. Storrs, CT.
8. **Rambo-Hernandez, K. E.,** Hernandez, P. R., & Andrada, G. (March 2010) *Item Writing Training: State level algebra readiness (MSTAR) assessment using Universal Design for Assessment* on behalf of Texas Education Agency.
7. Adelson, J., Cole, S., **Rambo, K.,** Wilson, H. (October 2010). *Applying Advanced Methodologies to Research Giftedness: Implications for Administrators, Teachers, and Researchers.* Presentation at the national conference of the National Association for Gifted and Talented, Atlanta, GA.
6. **Rambo, K.** & Kettler, T. (November 2008) *What current research says about educating gifted mathematicians.* Presentation at the conference of the Texas Association for Gifted and talented, Dallas, Texas
5. McCoach, D., Coyne, M., & **Rambo, K** (October 2008). *Measuring Student Vocabulary Acquisition: Research and Practice.* Working group discussion at the conference of the Northeast Educational Research Association, Rocky Hill, CT. Session role: discussant.
4. **Rambo, K.** & Kettler, T. (November 2007) *Gifted mathematics education: An innovative approach.* Poster session presented at the conference for the National Association for Gifted Children, Minneapolis, MN.
3. **Rambo, K.** & Coker, B. (June 2006). *Be careful what you wish for.* Presentation at the annual conference for the Advancement of Mathematics Teaching, San Antonio, TX.
2. **Rambo, K.** & Goddard, M. (June 2006). *Assessing student understanding by diagnosing student errors.* Presentation at the annual conference for the Advancement of Mathematics Teaching, San Antonio, TX.
1. **Rambo, K.** & Kettler, T. (November 2006) *Moving from mystery to mastery- A new approach to servicing gifted students.* Presentation at the conference for the National Association for Gifted Children, Charlotte, NC.

## ADVISING

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University	Role	Student	Degree	Department	Status
<i>Texas A&amp;M University</i>					
	Chair/Co-Chair	Blaine Pedersen	PhD	EPSY	In-progress
		Sequoia Callahan	PhD	EPSY	Withdrew
		Suzanna Ammenheuser	EdD	TLAC	Graduated
		Robin Ries Bova	EdD	TLAC	Graduated

University	Role	Student	Degree	Department	Status
		Laura Marie Gallardo	EdD	TLAC	Graduated
		Misty Germain	EdD	TLAC	In-progress
		Christopher Rhoades	EdD	TLAC	In-progress
		Victoria Michelle Walloch	EdD	TLAC	Graduated
		Tiffani Cortez	EdD	TLAC	In-progress
	Committee Member	Anjali Chaudhary	PhD	TLAC	In-progress
		Robert Harold Lightfoot	PhD	IEEI	In-progress
		Caroline Wield	PhD	EPSY	In-progress
		Aaron Jacob Penton	PhD	TLAC	In-progress
		Samantha Michele Shields	PhD	TLAC	Graduated
		Allison Esparza	PhD	TLAC	In-progress
		Naike Wang	PhD	EPSY	In-progress
	Chair	Addyson McDonald	Masters	TLAC	In-progress
		Haleigh Cooper Hall	Masters	TLAC	In-progress
		Halie Summers	Masters	TLAC	In-progress
		Ivone Allen	Masters	TLAC	Graduated
		Jose Lopez	Masters	TLAC	Withdrew
		Judith Barrera	Masters	EPSY	In-progress
		Anthony Shull	Masters	TLAC	In-progress
		Katie Peterson	Masters	TLAC	In-progress
		Sarah Spencer	Masters	EPSY	In-progress
<i>External Committee Member: University of North Texas</i>					
	Committee Member	Lindsay Ellis Lee	PhD	EPSY	Completed 2021
<i>West Virginia University</i>					
	Chair	Sabrina Hartman	Masters	LSHD	Completed 2019
		Cathy Garner	Masters	LSHD	Completed 2018
	Committee Member	Rebekah Kisamore	Masters	LSHD	Completed 2018
		Mo Hashemi	Masters	LSHD	Completed 2019
		Wenyi Du	Masters	LSHD	Completed 2019
		Cabot Zabriskie	PhD	Physics	Completed 2019
		Heather Henderson	PhD	LSHD	Completed 2020
		James Baker	PhD	Communications	Completed 2019
		Xiangmin Wu	PhD	Mathematics	Completed 2019
		Spencer Ingels	PhD	CPASS	Completed 2018
		Yang Song	PhD	CPASS	Completed 2017
<i>Colorado State University</i>					
	Committee Member	Jerry Overmeyer	PhD	EDUC	Completed 2014
		Lisa Pitot	PhD	EDUC	Completed 2014
		Samantha Johanson	PhD	CDFS	Completed 2014
		Jaclyn Menendez	PhD	PSYC	Completed 2014
		Alexandra Dukeman	Masters	ENGR	Completed 2014

University	Role	Student	Degree	Department	Status
		Andrew King	Masters	EDUC	Completed 2013
		Kevin Larsen	Masters	EDUC	Completed 2013
		Derek Smith	Masters	EDUC	Completed 2013
		Stuart Whitehead	Masters	EDUC	Completed 2013
		Tobias Clouser	Masters	EDUC	Completed 2012
		Eric Colgrove	Masters	EDUC	Completed 2012
		Evan Dixon	Masters	EDUC	Completed 2012
		John Spillane	Masters	EDUC	Completed 2012
		Amy Kress	UG- Thesis	Mathematics	Completed 2013

## MAXIMIZING ACHIEVEMENT AND GROWTH IN EDUCATION (MAGE) RESEARCH LAB

Student	Program	Level	Mentored by:	Participation
Blaine Pedersen	EPSY PhD	Graduate	Rambo-Hernandez	2020-date
Miriam Sanders	TLAC PhD	Graduate	Rambo-Hernandez	2021-date
Sequoia Callahan	EPSY PhD	Graduate	Rambo-Hernandez	2021-date
Syahrul Amin	TLAC PhD	Graduate	Rambo-Hernandez	2021-date
Natasha Wilkerson	TLAC PhD	Graduate	Rambo-Hernandez	2021-date
Sarah Spencer	EPSY Masters	Graduate	Rambo-Hernandez	2021-date
Jose Lopez	TLAC Masters	Graduate	Rambo-Hernandez	2021
Hannah Hart	TLAC	Undergraduate	Miriam Sanders	2021-date
Nikki Nguyen	Pre-Law	Undergraduate	Blaine Pedersen	2020-date
Sabrina Hernandez	Physics	Undergraduate	Blaine Pedersen	2020-date
Nicole Svetlov	Engineering	Undergraduate	Blaine Pedersen	2020-date

## MENTEE AWARDS

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- April 2022 Blaine Petersen, *AERA ROGCT SIG Graduate Student Travel Award*
- April 2022 Syahrul Amin, *Division J Graduate Student Travel Award*
- March 2022 Callahan, S\*., & Svetlov, N\*\*. (2022, March 21–24). *The Effect of COVID-19 on Engineering Students' Social Interactions: Implications on Academic and Career Development* [conference presentation]. Student Research Week 2022, Texas A&M University, College Station, TX, United States.  
*Mentored research: Mentor- Karen Rambo-Hernandez, Ph.D.*  
*Award: First place Graduate Oral Presentation, subject area - Psychology.*
- May 2021 Blaine Pedersen, *Texas A&M graduate student research award: Excellence in Research Special Award*

## SERVICE

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***National and International Service***

American Psychological Foundation,

- ◆ Grant reviewer 2017, 2020, 2021

American Educational Research Association (AERA) Research on Giftedness and Talent Special Interest Group (SIG)

- ◆ Chair-Elect, 2020-2022 (elected)
- ◆ Member at large, 2017-2019 (elected)
- ◆ Treasurer, 2015-2017 (elected)
- ◆ Program Chair, 2014-2015 (elected)
- ◆ Assistant Program Chair, 2013-2014 (elected)
- ◆ Proposal Reviewer for 2009, 2011 to date submissions

American Educational Research Association (AERA) Division D- Measurement and Research Methodologies

- ◆ Membership Committee Member 2011-2014
- ◆ Senior Representative for the Graduate student committee 2010-2011
- ◆ Chair Division D Graduate Student Committee 2010-2011
- ◆ Junior Representative for the Graduate student committee 2009-2010
- ◆ Co-chair Division D Graduate Student Committee 2009-2011
- ◆ Mentoring Committee Member, April 2008- April 2009

National Association for Gifted Children (NAGC) Research and Evaluation Network

- ◆ Search Committee Member: Gifted Child Quarterly Editor 2021 (appointed)
- ◆ Program Chair, 2013-2014 (elected)
- ◆ Assistant Program Chair, 2012-2013 (elected)
- ◆ Communications Chair, 2010-2012 (elected)
- ◆ Newsletter editor, 2008-2010

National Council of Teachers of Mathematics (NCTM)

- ◆ Program Committee (Research) for the Regional Conference, New Orleans, LA 2010

National Science Foundation (NSF)

- ◆ Grant review panelist, EHR Division, 2021

Open Science Foundation

- ◆ Conference planning committee: Open Science Practices in Educational Research, 2021, 2022

***Service to Journals***

- ◆ *Journal for the Education of the Gifted*
  - Editorial Board Member, 2019 to date
  - Ad hoc peer reviewer 2011 to 2018
- ◆ *Journal of Educational Psychology*
  - Editorial Board Member, October 2014 to date

- Principle reviewer Jan 2014 to October 2014
- ♦ *Gifted Child Quarterly*
  - Editorial Board Member 2012 to date
  - Ad hoc peer reviewer 2011, 2012
- ♦ *Journal of Educational Research*
  - Editorial Board Member 2012 to date
  - Ad hoc peer reviewer 2011, 2012
- ♦ *Educational Psychology Review*
  - Ad hoc peer reviewer, 2012, 2013, 2014
- ♦ *Journal of Advanced Academics*
  - Editorial Board Member 2021 to date
  - Ad hoc peer reviewer 2011 to date
- ♦ *Learning and Individual Differences*
  - Editorial Board Member, 2022 to date

#### ***State Service***

- ♦ Colorado Association for Gifted and Talented
  - University Representative to 2013 to 2014
- ♦ Texas Association for the Gifted and Talented
  - Research Resource, committee member 2021, 2022

#### ***University Service***

##### ***Texas A&M University***

- University Level
  - Faculty Development Leave Committee Member, 2021 to date
- School of Education
  - Council of Principal Investigators, Committee Member, 2022 to date
- Department of Teaching, Learning, and Culture
  - Faculty Ombud, Fall 2022 to present
  - Tenure and Promotion Committee Member, 2022 to date
  - Searches
    - Chair of McAllen HEC Academic Professional Track Search 2021-2022
    - Committee Member: Literacy Open Rank Search 2022-2023
    - Committee Member: STEM Cluster Hire 2022-2023
    - Committee Member: STEM Cluster Hire 2021-2022
    - Committee member Instructional Design Search 2021
  - ACES Review committee (2019-2020)
  - Interfolio A-1 Review Committee 2020

##### ***West Virginia University Service***

- ♦ Coordinator of Educational Psychology, 2018-2019



- Department of Special Education: Gifted education search committee member 2014-2015
- ♦ College of Education and Human Services
  - Research, Service, and Professional Development Committee, 2017-2018
  - Academic and Student Affairs Committee 2015-2016
  - Reviewer for Summer Grant Funding Spring 2015

### ***Colorado State University Service***

- ♦ Co-chair of Research Methods Committee, School of Education, Fall 2013 to Spring 2014
- ♦ Information Science and Technology Center:
  - Research Advisory Committee Member 2011 to 2014
  - Research Advisory Subcommittee Member: Distinguished Lecturer Series 2012 to 2014
- ♦ Mathematics Education assistant professor search committee member,
  - Department of Mathematics, College of Natural Sciences, Fall 2012-Spring 2013
  - Department of Mathematics, College of Natural Sciences, Fall 2013-Spring 2014
- ♦ Higher Education Leadership search committee member
  - School of Education, College of Applied Human Services, Fall 2012-Spring 2013
- ♦ College of Applied Human Sciences
  - Mini-grant reviewer, Spring 2012

## **TEACHING**

<b>Course (University)</b>	<b>Semester</b>
EDCI 639: Grant Writing	Spring 2021, Spring 2022
EDCI 688: Research Methods in Education III (TAMU)	Fall 2020, Fall 2021
EDCI 687: Research Methods in Education II (TAMU)	Spring 2020, 2021, 2022
EDCI 686: Research Methods in Education I (TAMU)	Fall 2019, 2020, 2021, 2022
EDP 693A: Structural Equation Modeling, Co-Instructor (WVU)	Spring 2018
EDP 512: Research and Evaluation Methods in Counseling (WVU)	Fall 2017, Fall 2018
EDP 693A: Multilevel Modeling (WVU)	Fall 2016, Fall 2018
EDP 612: Educational Research Methods (WVU)	Fall 2015
EDP 613: Statistics I (descriptive statistics, ANOVA, t-test, correlation, bivariate regression) (WVU)	Fall 2015, Fall 2016, Spring 2017 (online), Fall 2017, Fall 2018 (mentor instructor)
EDP 614: Statistics II (Multiple Regression, ANOVA, ANCOVA) (WVU)	Spring 2015

<b>Course (University)</b>	<b>Semester</b>
EDP 610: Assessment for Classroom Teachers (WVU)	Spring 2015, Spring 2017, Spring 2019
EDP 710: Proposal Development (WVU)	Fall 2014
CDFS 250: Research Methods (WVU)	Fall 2014
EDRM 792A: Educational Assessment (CSU)	Spring 2014
EDRM 792A: Seminar in Research Methodology- Multilevel Modeling (co-listed with Psychology: PSYC 792A: Multilevel Modeling), (CSU)	Spring 2013
EDRM 792A: Graduate Seminar in STEM (for advisees only), (CSU)	Fall 2012, Spring 2013
EDUC 350/386 Individualization of Instruction, Instructor, (CSU)	Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014
Hierarchical Linear Modeling (HLM), Data Analysis Training in Connecticut (DATIC), Teaching assistant (UCONN)	Summer 2010, Summer 2011
Hierarchical Linear Modeling, Department of Educational Psychology- EPSY 6611, Teaching assistant (UCONN)	Spring 2011
Assessment of Learning I & II, Department of Educational Psychology- EPSY 4010, Instructor (UCONN)	Fall 2008, Fall 2009, Fall 2010
Diagnosis, Assessment, and Program Planning, Department of Educational Psychology- EPSY 3120W, Co-Instructor (UCONN)	Spring 2009

## **STUDENT REFEREED CONFERENCE PAPERS RESULTING FROM COURSE ASSIGNMENTS**

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*Note: Student names are **bolded**, course is in parentheses*

**Turner, M.** & Williams, J. (2022, November). Examining Predictors of Longevity for Black and Brown Teachers in Urban Schools. [Conference paper]. International Conference on Urban Education. Cancun, Mexico. (EDCI 687 Spring 2022)

**Ali, S.** (2022). Bringing the Neuroscience of Learning to Online Teaching: Brain Breaks on Students' Perception of Engagement by Gender. *Technology, Innovation and Special Education Research*

*Journal 2* (1), 34-48 <https://www.tiserjournal.com/wp-content/uploads/2022/08/Bringing-the-Neuroscience-of-Learning-to-Online-Teaching-2.pdf> (EDCI 687 Spring 2021)

**Holtz, E., & Worley, C.** (2022, April). *Are Deficit Perspectives Grounded in Empirical Data? Investigating Parent Satisfaction of Urban and Rural Environments* [Conference session]. American Educational Research Association 2022 Conference, San Diego, CA, United States. (EDCI 687 Spring 2021)

Herman, B. C., Clough, M. P., Rao, A., **Poor, S. V., Janney, B. A.,** Sobotka, A. J., **Kidd, A.,** (March, 27-30, 2022). *University biology students' COVID-19 decisions: The interconnected influence of COVID-19 science perceptions and sociocultural membership*. National Association for Research in Science Teaching (NARST) International Conference Vancouver, BC, (EDCI 687 Spring 2021)

**Esparza, A.M.** (2022, March). Campus Association as a Predictor of Science Standard Evaluation using Multinomial Logistic Regression. Paper accepted for presentation at the NARST international meeting. Vancouver, BC: March 27-30. (EDCI 688 Fall 2020)

## STUDENT TEACHING SUPERVISION

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### University of Connecticut

- ◆ University Supervisor for secondary mathematics student teachers, Spring 2008, Spring 2009, Spring 2011

## K-12 EXPERIENCE

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### Coppell Independent School District (2002-2007):

- ◆ Mathematics Academic Leader & 8th grade Mathematics Teacher (8<sup>th</sup> grade regular, Pre-AP Algebra, Pre-AP Geometry, Pre-AP Algebra 2), mentor teacher, Curriculum Alignment Committee, Gifted and Talented Committee, Assessment Committee, Staff Development Presenter, MathCounts Coach *Coppell Middle School North*
- ◆ Sixth Grade Lead Mathematics Teacher, MathCounts Coach, Cheerleading Coach, Curriculum Alignment Committee *Coppell Middle School West*

### Mesquite Independent School District (1997-2002):

- ◆ Testing Coordinator, Administrative Intern, *Berry Middle School and McDonald Middle School* (2001 - 2002)
- ◆ 7th grade Mathematics and gifted education, *McDonald Middle School* (1997 - 2001)
- ◆ Other responsibilities: Cheerleading Coach, Team Leader, Staff Development Presenter

## PROFESSIONAL DEVELOPMENT

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### *Professional Memberships*

- ◆ American Psychological Association (APA)
  - Division 15: Educational Psychology
  - Division 5: Evaluation, Measurement, and Statistics
- ◆ American Educational Research Association (AERA)
  - SIG: Research on Giftedness, Creativity, and Talent
- ◆ National Association for Gifted Children (NAGC): Research and Evaluation Network

### *Statistical Software Programs*

- ◆ HLM, SPSS, AMOS, STATA, MPlus

### *Additional Certifications*

- ◆ Certified Mediator (January 2023), Center for Change and Conflict Resolution

## OTHER EXPERIENCE

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### **Texas Education Agency/ Core K12 (March 2010)**

- ◆ Item Reviewer for items that were created for the Texas MSTAR Project

### **University of Connecticut (2007-2010)**

- ◆ Research Assistant: Connecticut State Department of Education, alternative assessment validation study, kindergarten readiness assessment (2009-2010)
- ◆ Research Assistant: Research design, data collection, and data analysis for Project IVI, Project Vital, Project ERI and Gear-Up (2007-2009).

### **Northwest Evaluation Association (Summer 2009)**

- ◆ Summer research intern: data analysis including validation studies for virtual comparison groups and model fitting in Hierarchical Linear Modeling for school growth norm study, collaborated on multiple evaluations of educational programming

### **Plano Independent School District (Summer 2008)**

- ◆ Research and Assessment Intern: analyzed cognitive demands of assessments, conducted data analysis, worked with district level administrators to create appropriately demanding assessments, prepared reports for district review