

***Karen E. Rambo-Hernandez***

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**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>	2018 to Present
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	
<b>Affiliate Faculty</b>	2014 to present
Department of Human Development and Family Studies Colorado State University	

**GRANTS*****Current Funding***

NSF-DUE IUSE: *Cultivating Inclusive Identities of Engineers and Computer Scientists: Expanding Efforts to Infuse Inclusive Excellence in Undergraduate Curricula.* **Karen Rambo-Hernandez** (PI at

WVU), Rebecca Atadero (PI at Colorado State), Christina Paguyo (PI at University of Denver). (2017-2022, \$1,910,000 total/ \$752,668 to WVU). Award Number at WVU: 1725880

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 Research 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). (2017, \$5,000).

### ***Prior Funding***

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). (2014-2017, \$200,000). Award number: 1432601

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).

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 am no longer active on 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 (2011-2014, \$150,000). Award number: 1137023

## **HONORS**

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### ***Research Awards***

- 2017 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"
- Best Paper Award in First-Year Programs Division (FPD), 2015 ASEE Annual Conference and Exhibition for "Creating Inclusive Environments in First-Year Engineering Classes to Support Student Retention and Learning"

- First Place Paper in Best Diversity Paper Competition, 2015 ASEE Annual Conference and Exhibition for "Creating Inclusive Environments in First-Year Engineering Classes to Support Student Retention and Learning"
- National Association for Gifted Children Research and Evaluation Network- 2012 Dissertation Award, Second place
- 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.
- Dr. Richard and Kristin Swchab Fellowship, University of Connecticut, Fall 2010-Spring 2011
- Friends & Colleagues of Francis X. Archambault, Jr. Fellowship, University of Connecticut, Fall 2009-Spring 2010
- J. Raymond and Augusta Gerberich Fellowship, University of Connecticut, Fall 2008- Spring 2009
- Pre-doctoral Fellowship, University of Connecticut, Fall 2008
- Neag Graduate Student Association *Travel Grant Award*, Fall 2007, Fall 2008, Spring 2009

### ***Teaching Awards***

- Nominated for CEHS Teaching Award 2015, 2016, 2017
- 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
- American Psychological Association Division 15 (Educational Psychology) Doctoral Student Research Seminar selected participant. August, 2010
- Coach of CMSN MATHCOUNTS® fourth place Texas state team 2006
- Coppell Education Foundation grant recipient- Fall 2005
- Dean's List with Honors every semester- East Texas Baptist University 1993-1997

## **PEER REVIEWED PUBLICATIONS**

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Atadero, R. E., Paguyo, C., **Rambo-Hernandez, K.E.**, & Henderson, H. L. (in press). Building Inclusive Engineering Identities: Implications for Changing the Temperature of Engineering Culture. *European Journal of Engineering Education*.

Balgopal, M. M., Casper, A. A., Atadero, R. A., & **Rambo-Hernandez, K. E.** (in press). 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*. doi.org/10.1080/09500693.2017.1346847
- 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
- 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
- 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 (4), 33-40. DOI: <https://doi.org/10.14307/JFCS109.4.33>
- 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>
- 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>
- 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
- 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
- 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
- Atadero, R., **Rambo-Hernandez, K. E.**, & Balgopal, M. M. (2015). Assessing the Impact of Projects in Engineering Statics on Student Outcomes using Social Cognitive Career Theory. *Journal of Engineering Education*, 104, 55-73. DOI: 10.1002/jee.20063
- 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
- Ryser, G. & **Rambo-Hernandez, K.E.** (2014). Using growth models to measure school performance: Implications for gifted learners. *Gifted Child Today*.
- 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
- McCoach, D., **Rambo, K.E.**, & Welsh, M. (2013). Assessing gifted students' growth: A primer and recommendations. *Gifted Child Quarterly*. DOI: 10.1177/0016986212463873

- 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
- 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.

## PUBLICATIONS UNDER REVIEW

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- Rambo-Hernandez, K.E.**, Peters, S., Plucker, J. (under revision). *Quantifying and Explaining Excellence Gaps across Schools and Time: A Multilevel Longitudinal Study*
- Moore, M. W., **Rambo-Hernandez, K.E.**, & McDonald, T.\* (under revision). *Consonant age of acquisition affects linguistic performance across novel stimulus sets and design procedures.*

## EDITED BOOK CHAPTERS

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- 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.
- 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.
- 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.
- 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.

## OTHER PUBLICATIONS

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- 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.*
- 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.*
- Rambo-Hernandez, K. E.** (2016) Evaluation of Honda Foundation. *Fashion FUNdamentals!* Grant. Karen Hyllegard and Jenn Ogle (PI).

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

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/>

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>

**Rambo, K.E.** & Boazman, J. (2012). We all want the same thing. *Parenting for High Potential*, 1(7), 8-11.

**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/>

**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)

**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>

## PEER-REVIEWED CONFERENCE PROCEEDINGS

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Note: \* indicates graduate student

**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.

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*. Paper to be presented at the American Society of Engineering Education. Columbus, OH.

**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*. Paper to be presented at the American Society of Engineering Education. Columbus, OH.

- 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*. Paper to be presented at the American Society of Engineering Education. Columbus, OH.
- Paguyo, C., Atadero, R.A., & **Rambo-Hernandez, K.E.**, Henderson, H.\* (June 2016). *Promoting inclusive engineering identities in first-year engineering courses*. Paper presented at the American Society of Engineering Education Annual Conference and Exposition. New Orleans, LA.
- 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*. Paper presented at the American Society for Engineering Education Annual Conference and Exposition. Seattle, WA.
- 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.
- Atadero, R., **Rambo-Hernandez, K. E.**, Balgopal, M. & Casper, A.M.\* (June 2014). *Project-Based Learning in Statics: Curriculum, Student Outcomes, and Ongoing Questions*. Paper presented at the American Society for Engineering Education Annual Conference and Exposition. Indianapolis, IN.

## INVITED PRESENTATIONS

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- 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 graduate student, \*\*indicates an undergraduate student*

- 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 to be presented at the International Society for Learning Sciences. London, England.
- 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.
- 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.
- 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.
- 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.
- 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
- Moilanen, K. & **Rambo-Hernandez, K. E.** (April 2016). *Effects of Maternal Parenting and Mother-Child Relationship Quality on Self-Regulation During Early Adolescence*. Paper to be presented at the Society for Research on Adolescence Annual Conference. Baltimore, MD.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

**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.

**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.

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.

**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.

**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.

**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.

**Rambo, K.** & Siegel, D. (April 2009) *Creativity assessment correlations.* Paper presented at the national conference of the American Educational Research Association, San Diego, CA.

**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.

**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.

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.

## PROFESSIONAL DEVELOPMENT PRESENTATIONS

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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.

- 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.
- Rambo-Hernandez, K.** (2013) *High Achieving and Average Students' Reading Growth: Contrasting School and Summer Trajectories*. Methods Matter at Colorado State University. Fort Collins, CO.
- 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.
- Rambo-Hernandez, K.** (January 2012). *What makes a good test question?* Presentation for the Professional Development Institute at Colorado State University, Fort Collins, CO.
- McCoach, D. & **Rambo, K.** (January 2011). *Norm vs. Criterion Referenced Grading*. Presentation for the University of Connecticut Winter Faculty Institute. Storrs, CT.
- 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.
- 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
- 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.
- 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.
- 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.
- 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.
- 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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- ◆ Committee Chair- Ph.D.
  - West Virginia University- Masters in Educational Psychology
    - Catherine Garner, expected graduation spring 2018
- ◆ Committee Chair- Masters
  - West Virginia University- Masters in Educational Psychology
    - M. Sabrina Hartman, expected graduation spring 2019

- Catherine Garner, graduation spring 2018
- ◆ Committee Member- Masters
  - West Virginia University- Masters in Educational Psychology
    - Rebekah Kisamore- graduation spring 2018
- ◆ Committee member- Ph.D, College of Education and Human Services
  - West Virginia University
    - Marcie Rice, expected graduation spring 2020
    - Adrionia Molder, expected graduation spring 2020
    - Brandon Webb, expected graduation spring 2018
    - Rachel Gingles, expected graduation spring 2017
    - Peggy McQueen, expected graduation spring 2019
    - Angela Fiore, expected graduation spring 2017
    - Heather Henderson, expected graduation spring 2019
    - Crystal Smith, graduation spring 2016
    - Zornitsa Georgieva, graduation summer 2015
  - Colorado State University
    - Jerry Overmeyer, Graduation summer 2014, Colorado State University
    - Lisa Pitot, Graduation spring 2014
- ◆ Outside committee member- Ph.D.
  - West Virginia University
    - Cabot Zabriskie, Dept. of Physics and Astronomy, Ph.D. student, expected graduation fall 2018
    - Spencer Ingels, Physical Activities and Sport Sciences Ph.D. student, expected graduation spring 2018
    - Xiangmin Wu, Mathematics Ph.D. student expected graduation summer 2018
    - Yang Song, Physical Activities and Sport Sciences Ph.D. student, graduation summer 2017
  - Colorado State University
    - Samantha Johanson, Ph.D. candidate- Human Development and Family Studies, Graduation fall 2014
- ◆ Outside committee member- Masters
  - Colorado State University
    - Jaclyn Menendez, Ph.D. student in Industrial and Organizational Psychology
    - Alexandra Dukeman, Masters student in Civil and Environmental Engineering, Graduation fall 2013
    - Andrew King, Masters student in music, Summer 2013 graduation
    - Kevin Larsen, Masters student in music, Summer 2013 graduation
    - Derek Smith, Masters student in music, Summer 2013 graduation
    - Stuart Whitehead, Masters student in music, Spring 2013 graduation
    - Tobias Clouser, Masters student in music, Summer 2012 graduation
    - Eric Colgrove, Masters student in music, Summer 2012 graduation
    - Evan Dixon, Masters student in music, Summer 2012 graduation
    - John Spillane, Masters student in music, Summer 2012 graduation
- ◆ Honors Thesis Committee member- undergraduate
  - Colorado State University
    - Amy Kress, Defended November 7, 2012: *Understanding by Design Unit Plan for Linear Equations*

## PROFESSIONAL DEVELOPMENT

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### ***National and International Service***

American Psychological Foundation,

- ◆ Grant reviewer for the Esther Katz Rosen Fund Grants, Spring 2017

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

- ◆ 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, 2012, & 2013 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

- ◆ 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

### ***Service to Journals***

- ◆ *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*
  - Ad hoc peer reviewer 2011 to date
- ♦ *Journal for the Education of the Gifted*
  - Ad hoc peer reviewer 2011 to date

**State Service**

- ♦ Colorado Association for Gifted and Talented
  - University Representative to 2013 to 2014

**West Virginia University Service**

- ♦ Department of Special Education
  - Gifted education search committee member
- ♦ 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 date
- ♦ 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

**Statistical Software Programs**

- ♦ HLM, SPSS, AMOS, MPlus

**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

**UNIVERSITY TEACHING EXPERIENCE**

EDP 693A: Structural Equation Modeling, Co-Instructor	Spring 2018
EDP 593A: Research and Evaluation Methods in Counseling	Fall 2017
EDP 693A: Multilevel Modeling	Fall 2016

EDP 612: Educational Research Methods	Fall 2015
EDP 613: Statistics I (descriptive statistics, ANOVA, t-test, correlation, bivariate regression)	Fall 2015, Fall 2016, Spring 2017 (online), Fall 2017, Fall 2018 (mentor instructor)
EDP 614: Statistics II (Multiple Regression, ANOVA, ANCOVA)	Spring 2015
EDP 610: Assessment for Classroom Teachers	Spring 2015, Spring 2017
EDP 710: Proposal Development, West Virginia University	Fall 2014
CDFS 250: Research Methods, West Virginia University	Fall 2014
EDRM 792A: Educational Assessment, Colorado State University	Spring 2014
EDRM 792A: Seminar in Research Methodology- Multilevel Modeling (co-listed with Psychology: PSYC 792A: Multilevel Modeling), Colorado State University	Spring 2013
EDRM 792A: Graduate Seminar in STEM (for advisees only), Colorado State University	Fall 2012, Spring 2013
EDUC 350/386 Individualization of Instruction, Instructor, Colorado State University	Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014
Hierarchical Linear Modeling (HLM), Data Analysis Training in Connecticut (DATIC), Teaching assistant	Summer 2010, Summer 2011
Hierarchical Linear Modeling, Department of Educational Psychology- EPSY 6611, Teaching assistant, University of Connecticut	Spring 2011
Assessment of Learning I & II, Department of Educational Psychology- EPSY 4010, Instructor, University of Connecticut	Fall 2008, Fall 2009, Fall 2010
Diagnosis, Assessment, and Program Planning, Department of Educational Psychology- EPSY 3120W, Co-Instructor, University of Connecticut	Spring 2009

## OTHER RESEARCH EXPERIENCE

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

- ◆ Item Writer Trainer: Taught teachers how to write items for a state level algebra readiness (MSTAR) assessment using Universal Design for Assessment
- ◆ Item Reviewer for items that were created for the Texas MSTAR Project

**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

**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).

**OTHER TEACHING EXPERIENCES**

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**University of Connecticut (2007-2011)**

- ♦ Survey Design (mini-course) for Neag School of Education masters students, Fall 2008, Fall 2009, and Fall 2010
- ♦ Data Analysis in Excel® (mini-course) for Neag School of Education masters students, Spring 2009, Spring 2010
- ♦ University Supervisor for secondary mathematics student teachers, Spring 2008, Spring 2009, Spring 2011

**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