

## Curriculum Vitae

### Meihua Qian

[mqian@clermson.edu](mailto:mqian@clermson.edu)

Assistant Professor

410 Old Main

College of Education

Clemson University

Clemson, SC 29634

Office # 864-656-0594

---

### Academic Identification

#### Academic Background/Degrees

- Ph. D. Indiana University, Bloomington, Indiana 2014  
Majors: Educational Psychology & Inquiry Methodology  
Dissertation: *Is Creativity Domain-specific? Evidence from Descriptive and Explanatory Multilevel Item Response Models*
- M. A. Beijing Normal University, Beijing, China 2006  
Major: Educational and Developmental Psychology
- B. A. Qufu Normal University, Shandong, China 2002  
Major: Psychology

#### Current Academic Appointment

Assistant Professor Clemson University 2013-present

#### Areas of Specialization

Creativity, gifted education, game-based learning, item response theory, multilevel modeling, and longitudinal data analysis.

#### Previous Academic Appointments and Professional Employment

**Research Assistant** 2006-2013  
Center for Evaluation and Education Policy, Indiana University at Bloomington

#### Selected Research Projects

- The Equity Review project
- The National Aeronautics and Space Administration (NASA) project

- High School Survey of Student Engagement (HSSSE)
- CTB/McGraw-Hill Indiana Acuity Efficacy Study
- Academic acceleration programs

**Associate Instructor**

2009-2013

School of Education, Indiana University at Bloomington

Courses taught: Y502 Intermediate Statistics Applied to Education and Y500 Lab

**RESEARCH**

**Publications**

**Peer-reviewed Journal Articles**

**Qian, M.,** & Clark, K. R. (2016). Game-based learning and 21<sup>st</sup> century skills: a review of recent research. *Computers in Human Behavior, 63*, 50-58.

Farmer, J. L., Leonard, A., Spearman, M., **Qian, M.,** & Rosenblith, S. (In press). Picturing a classroom community: Student drawings as a pedagogical tool to assess features of community in the classroom. *Action in Teacher Education*.

Herro, D., **Qian, M.,** & Jacques, L. (conditionally accepted). Increasing digital media and learning in classrooms through school-university partnerships. *Journal of Digital Learning in Teacher Education*.

Plucker, J. A., **Qian, M.,** & Schmalensee, S. (2014). Is what you see what you really get? Comparison of scoring techniques in the assessment of real-world divergent thinking. *Creativity Research Journal, 26*, 135-143.

Shi, B., **Qian, M.,** Lu, Y., Plucker, J. A., & Lin, C. (2012). The relationship between migration and Chinese children's divergent thinking. *Psychology of Aesthetics, Creativity, and the Arts, 6*, 106-111.

Plucker, J. A., **Qian, M.,** & Wang, S. (2011). Is originality in the eye of the beholder? Comparison of scoring techniques in the assessment of divergent thinking. *Journal of Creative Behavior, 45*, 1-22.

**Qian, M.,** Plucker, J. A., & Shen, J. (2010). A model of Chinese adolescents' creative personality. *Creativity Research Journal, 22*, 62-67.

Wang, S., **Qian, M.,** & Zhang, J. (2009). Factorial structure of the Anxiety Control Questionnaire in Chinese adolescents. *Journal of Psychoeducational Assessment, 27*, 334-344.

Plucker, J. A., Kaufman, J. C., Temple, J. S., & **Qian, M.** (2009). Do experts and novices evaluate movies the same way? *Psychology and Marketing*, 26, 470-478.

Wang, L., **Qian, M.**, & Shen, J. (2006). Teachers' implicit theory of creativity and its enlightenment towards teacher training. *Teacher Education Research*, 18, 20-23.

Yao, J., & **Qian, M.** (2004). A review of researches on teacher autonomy abroad. *Studies in Foreign Education*, 31, 44-47.

### **Book Chapters and other published work**

**Qian, M.**, & Plucker, J. A. (2016). Creativity Assessment. In J. Plucker (Ed.), *Creativity and Innovation: Current Understandings and Debates* (pp. 223-234). Prufrock Press.

**Qian, M.**, & Wang, X. (2014). Three-ring theory and Chinese K-12 education. In D. Y. Dai & J. Cai (Eds.), *Gifted Education in the United States: the Implications for China's Education System* (pp. 64-72). Hangzhou: Zhejiang Education Press.

**Qian, M.** (2005). Basic principles for a good student. In J. L. Shen & X. Y. Fang (Eds.), *Developmental Guide for Elementary School Students* (pp. 52-104). Beijing: Educational Press of Beijing.

**Qian, M.** (2004). Taking advantage of your spare time. In J. L. Shen & X. Y. Fang (Eds.), *Developmental Guide for Middle School Students* (pp. 26-37). Beijing: China Light Industry Press.

**Qian, M.** (2007). Big country, little creativity-Creativity research: A rising star in China. *Gifted Children*, 1, 6.

**Qian, M.**, Xu, J., & Wang, L. (2005). *Problem-based learning and other curriculum models for the multiple intelligences classroom*. Beijing: China Light Industry Press. [Translation]

Zhou, L., Xu, J., Wang, L., & **Qian, M.** (2005). *Creativity games for trainers: A handbook of group activities for jumpstarting workplace creativity*. Beijing: China Light Industry Press. [Translation]

### **Articles under review**

**Qian, M.,** Plucker, J. A., Yang, X., & Wang, X. Is Creativity Domain Specific or Domain General? Evidence from Multilevel Explanatory Item Response Theory Models. Manuscript has been submitted to *Psychology of Aesthetics, Creativity, and the Arts*.

**Qian, M., &** Plucker, J. A. Looking for Renaissance People: Examining Domain Specificity-Generality of Creativity Using Item Response Theory Models. Manuscript has been submitted to *Creativity Research Journal*.

Farmer, J. L., Spearman, M., **Qian, M.,** Leonard, A., & Rosenblith, S. Using Children's Drawings to Examine Student Perspectives of Classroom Climate in a SWAS Elementary School. Manuscript has been submitted to the *Elementary School Journal*.

### **Papers in progress**

**Qian, M., &** Herro, D. Creative teachers vs. good teachers: examining teacher beliefs about creativity. Manuscript in preparation for submission to a peer review journal.

**Qian, M., &** Clark, R. Promoting creativity through game-based learning: a review of recent research. Manuscript in preparation for submission to a peer review journal.

**Qian, M., &** Clark, R. Game-based learning and science education. Manuscript in preparation for submission to a peer review journal.

**Qian, M., &** Clark, R. A comparison of three approaches to mixed model selection? Manuscript in preparation for submission to a peer review journal.

**Qian, M.,** Vargas, P., & Boyer, M. Developing an Interactive Case to Support Student Learning of Educational Psychology. Manuscript in preparation for submission to a peer review journal.

**Qian, M.** Analyzing longitudinal data with multilevel models: Can we indeed rely on AIC and BIC to select covariance structures? Why or why not? Manuscript in preparation for submission to a peer review journal.

**Qian, M.,** Plucker, J. A., Yang, X. Evidence of the Psychometric Integrity of the Creative Personality Scale Using an Item Response Theory Framework. Manuscript in preparation for submission to a peer review journal.

Gabel, P., **Qian, M.,** Melloh, M., & Cuesta-Vargas, A. Confirmatory factor analysis of the Oswestry Disability Index. Manuscript in preparation for submission to a peer review journal.

**Qian, M., & Yang, X.** A new item response theory model for divergent thinking tests. Manuscript in preparation for submission to a peer review journal.

### **Selected Technical Reports**

Maltese, A, Harsh, J., **Qian, M., & Ramos, F.** (2012). Chicago Public Schools – The National Aeronautics and Space Administration (NASA) Summer Program Final Evaluation. Technical report submitted to NASA.

Rutkowski, L., & **Qian, M.** (2011). Equity Review Report. Technical report submitted to the Dean of Indiana University School of Education.

Spradlin, T. E., Dickinson, S. L., Guo, L., **Qian, M., & Hess, S. E.** (2011). Acuity Assessment Program Indiana Efficacy Study: 2008-2010 Data Analysis. Technical report submitted to CTB/McGraw-Hill.

Michael, R. S., **Qian, M., Hess, S. E., & Plucker, J. A.** (2010). Acuity Assessment Program Indiana Efficacy Study: 2008-2009 Data Analysis. Technical report submitted to CTB/McGraw-Hill.

Sullivan, S., & **Qian, M.** (2009). Learn More Indiana: Results of College Access and Success Network Survey. Technical report submitted to Lumina Foundation for Education.

### **Presentations**

#### **Refereed National and International Conference Presentations**

**Qian, M.** (2016, August). *Creative teachers vs. good teachers: examining teacher beliefs about creativity.* Presented at the annual meeting of the American Psychological Association, Denver, CO.

**Qian, M., & Clark, K.** (2016, April). *Game-based learning and 21st century skills: a review of recent research.* Presented at the annual meeting of the American Educational Research Association, Washington, DC.

Herro, D., & **Qian, M.** (2016, April). *Meeting the Challenges of Integrating Digital Media and Learning in Classrooms through School-University Partnerships.* Presented at the annual meeting of the American Educational Research Association, Washington, DC.

Spearman, M., Farmer, J. L., **Qian, M., Leonard, A., & Rosenblith, S.** (2016, April). *Using Children's Drawings to Examine Student Perspectives of Classroom Climate in a SWAS Elementary School.* Presented at the annual meeting of the American Educational Research Association, Washington, DC.

- Roman, J., Caldwell, B., Boyer, M., Vargas, P., & **Qian, M.** (2016, March). *Complexity of an Interactive Activity on Student Self-Efficacy*. Presented at the 27th annual conference of the Society for Information Technology and Teacher Education, Savannah, Georgia.
- Mercer, E.L., Denardis, V., Stover, M., Vargas, P., Boyer, M., & **Qian, M.** (2016, March). *ICLEP: Interactive Cases for Learning Educational Psychology*. Paper presented at the 2016 annual meeting of the Society for Information Technology and Teacher Education, Savannah, GA.
- Qian, M.**, Plucker, J. A., & Wang, X. (2015, April). *Looking For a Diversified Genius? Evidence from an Explanatory Multilevel Item Response Theory Model*. Presented at the annual meeting of the American Educational Research Association, Chicago, Illinois.
- Boyer, M., Vargas, P., & **Qian, M.** (2015, April). *Developing an Interactive Case to Support Student Learning of Educational Psychology*. Presented at the annual meeting of the American Educational Research Association, Chicago, Illinois.
- Qian, M.**, Plucker, J. A., & Wang, X. (2014, August). *Is Creativity Domain-specific? Evidence from Item Response Theory Models*. Presented at the annual meeting of the American Psychological Association, Washington, DC.
- Qian, M.**, & Wang, X. (2013, April). *Can we count on AIC and BIC in model selection? Why or why not?* Will be presented at the annual meeting of the American Educational Research Association, San Francisco, California.
- Qian, M.**, & Plucker, J. A. (2012, April). *Can we count on AIC, BIC and likelihood ratio test in model selection?* Presented at the annual meeting of the American Educational Research Association, Vancouver, BC, Canada.
- Qian, M.**, & Plucker, J. A. (2011, November). *A new look into various divergent thinking tests scoring techniques*. Presented at the annual meeting of the National Association for Gifted Children, New Orleans, LA.
- Qian, M.** (2011, August). *Student Research Showcase*. Presented at the annual meeting of the American Psychological Association, Washington, DC.
- Plucker, J. A., **Qian, M.**, & Yang, X. (2011, August). *Content Generality or Specificity? More Evidence from a Creative Behavior Checklist*. Presented at the annual meeting of the American Psychological Association, Washington, DC.
- Qian, M.**, Plucker, J. A., & Xu, A. (2010, November). *Is there a valid way to enhance creativity in Chinese classrooms?* Presented at the annual meeting of the National Association for Gifted Children, Atlanta, GA.

**Qian, M.,** & Plucker, J. A. (2010, August). *Comparison of two approaches for handling missing data in reliability estimation*. Presented at the annual meeting of the American Psychological Association, San Diego, CA.

Plucker, J. A., & **Qian, M.** (2010, August). *The relationship between migration and Chinese children's creative thinking*. Presented at the annual meeting of the American Psychological Association, San Diego, CA.

**Qian, M.,** Plucker, J. A., & Wang, S. (2009, August). *Is the Creative Personality Scale valid?* Presented at the annual meeting of the American Psychological Association, Toronto, Canada.

**Qian, M.,** & Plucker, J. A. (2009, November). *Is there a valid way to score creativity test?* Presented at the annual meeting of the National Association for Gifted Children, St. Louis.

**Qian, M.,** Plucker, J. A., & Shen, J. (2008, August). *Chinese adolescents' creative personality*. Presented at the annual meeting of the American Psychological Association, Boston.

Shen, J., Makel, M. C., **Qian, M.,** & Plucker, J. A. (2007, November). *Teachers' conceptions of creative students in China*. Presented at the annual meeting of the National Association for Gifted Children, Minneapolis, MN.

**Qian, M.,** Shen, J., & Wang, L. (2005, October). *Revision of Adolescents' Creative Personality Questionnaire*. Presented at the tenth Chinese Academic Conference of Psychology, Shanghai, China.

**Qian, M.** (2005, September). *A pilot study on cross-cultural comparison of adolescents' creative personality*. Presented at the International Conference on Creativity at Beijing Normal University, Beijing, China.

### **Invited Lecture**

**Qian, M.** (2013). *Is Creativity Domain-specific? Evidence from Descriptive and Explanatory Multilevel Item Response Models*. Presented at the Department of Engineering and Science Education Seminar Series, Clemson University.

### **Grants**

#### **External**

**Qian, M.** A Deeper Look at Deeper Learning: Evidence from Descriptive and Explanatory Multilevel Item Response Theory Models. (Pending) \$20,000. The AERA-Study of Deeper Learning Fellowship Program. (Role: PI)

**Qian, M.**, Farmer, J., Spearman, M., & Rosenblith, S. Improving the Identification of Gifted Students from Underrepresented Populations by Building Classroom Community. (Unfunded) \$50,000. The Ester Katz Rosen Fund- American Psychological Foundation. (Role: PI)

Herro D., Gee, E., Shute, V., & **Qian, M.** Stealth ACT: A Game-based Assessment to Measure Computational Thinking. (Unfunded) \$529,000. National Science Foundation. (Role: Co-PI)

### **Internal**

**Qian, M.**, Farmer, J., Leonard, A., Spearman, M., & Rosenblith, S. Fostering Community with Elementary Students in a School-Within-a-School. (Funded) \$5,000. The SOE ADR 2015-2016 Research Award Program. (Role: PI)

**Qian, M.** Creativity and Entrepreneurship: who is the next young billionaire? EUREKA 2016 summer research program. (Unfunded). (Role: PI)

### **Honors and Awards**

Recipient	National Association for Gifted Children Doctoral Student Award	2013
Recipient	Research Fellowship, Indiana University	2011
Recipient	East Asian Study Center Travel Award, Indiana University	2010
Recipient	Frieda Alice Renfro Fellowship, Indiana University	2010
Recipient	American Psychological Association Student Travel Award	2010
Recipient	Research Fellowship, Indiana University	2010
Recipient	Student Travel Award, Indiana University	2010
Recipient	Student Travel Award, Indiana University	2009
Recipient	Student Travel Award, Indiana University	2008
Recipient	Proffitt Graduate Fellowship, Indiana University	2006-2007
Recipient	Scholarship for Outstanding Academic Performance	2004-2005
Recipient	Excellent Graduate Student of Beijing Normal University	2004-2005
Recipient	National Graduate Fellowship	2003-2006
Recipient	First Class Scholarship, Qufu Normal University	1998-2002
Recipient	Excellent Student of Qufu Normal University	1998-2002

### **Teaching & Advising**

#### **Teaching**

Assistant Professor, Clemson University

Fall 2013-present

Classes Taught:

EDF 3020 Educational Psychology

ED 9550 Theoretical Bases of Instruction

EDF 8770 Experimental and Non-Experimental Research Methods in Education  
EDF 9770 Multiple Regression/General Linear Model in Educational Research  
EDF 9080 Advanced Educational Tests and Measurements

Associate Instructor, School of Education  
Indiana University at Bloomington

**Courses Taught:**

Y500 Computer Lab for EDUC Statistics 2009-2013

(A lab associated with Y502 and Y604-Multivariate Data Analysis)

Y502 Intermediate Statistics Applied to Education Spring 2010

Y420 Approaches and Issues in Educational Research Fall 2009

Guest lecturer S710 Statistical Computing Spring 2009

Department of Statistics

Indiana University at Bloomington

Statistical Consultant, Sullivan Consulting, Indianapolis, IN, 2009-2010

**Advising**

**Chair of dissertation committee (in process)**

Stephen Chou Major: Learning Science

**Membership on Doctoral Advising Committees (in process)**

William Mccorkle Major: Curriculum and Instruction

Dwane Valera Major: Curriculum and Instruction

Karen R. Clark Major: Learning Science

**Membership on Master Advising Committees (completed in 2016)**

Charlotte Healy

**Other graduate and undergraduate advising**

Advised 14 undergraduate students in fall 2015

Stephen Chou is shadowing my EDF 3020 course in fall 2016

**Service**

**Service to Field of Scholarship**

Manuscript Reviewer

- *Psychology of Aesthetics, Creativity, and the Arts* 2011-present
- *Creativity Research Journal* 2016-present
- *Psychological Methods* 2009

Conference Reviewer

- AERA SIG- Multilevel Modeling 2012-present
- AERA Division C Learning & Instruction 2015-present
- AERA Division D Measurement & Research Methodology 2015-present
- APA Division 15- Educational Psychology 2013-present
- National Association for Gifted Children (NAGC) 2014-present

**University Service**

- Student Member Indiana University Search Committee 2012-2013  
(A national search for Director of the Center for Evaluation and Education Policy)
- Learning Science Advisory Committee, CU 2014-present
- College of Education Community and Diversity Committee, CU 2014-present
- University Research Grant Committee, CU 2014-present