

KAREN GEROW

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Profile

- Ph. D. in progress, Lamar Dodd School of Art, University of Georgia, Athens, GA,
- Early Childhood Education Certification, all subjects grades PK-5
 - Middle Grades Math Certification
 - Gifted-in-Field Endorsement

Education

University of Georgia, Athens, Georgia — Ph. D. in Art, expected in 2018

Piedmont College, Athens, Georgia — MAT, Early Childhood Education 2006

University of Georgia, Athens, Georgia — BA, Anthropology 1996

Experience

Founder & Director, Double Helix STEAM School Athens, GA 2014 - Present

- Developed curriculum in STEAM (Science, Technology, Engineering, Art, and Math) for 4th - 8th grade students.
- Instruction emphasizes interdisciplinary nature of STEAM education.
- Responsible for daily instruction of all students. Hire and supervise assistant teachers. Responsible for all aspects of daily operations.

Research Assistant, College of Engineering, University of Georgia Athens, GA 2013 - 2014

- Participated in interdisciplinary research team, including representatives from engineering, art, geography, and educational psychology.
- Participated in a qualitative study of emotions in engineering by interviewing engineering students, analyzing data, and crafting summaries of data.

Instructional Coach, Oglethorpe County Primary School Crawford, GA 2013 - 2014

- Assisted teachers in transitioning to Common Core State Standards.
- Modeled inquiry based math lessons at all grade levels.
- Created professional development opportunities for all staff.

Contract Consultant, Northeast Georgia RESA Winterville, GA 2012-2013

- Worked with elementary school teachers to transition to Common Core State Standards.
- Guided teachers as they develop higher order questioning skills.

Research Assistant, Educational Psychology, University of Georgia Athens, GA 2011 - 2013

- Worked on a Longitudinal Study of 3-D Spatial Skills and Mathematics Development in Elementary School Children under the direction of Dr. Martha Carr.

- Developed and piloted lessons designed to improve the spatial skills of 2nd and 4th grade students.

Education Consultant

- *Math + Play Workshops, 2012 - present*

Conduct workshops for parents focusing on how they can incorporate research-based mathematical opportunities into their children's everyday play.

- *Elbert County Elementary Schools, Georgia 2009 - 2010.*

Focus on evaluating and improving math instruction throughout the school by observing and modeling instruction as well as co-writing curriculum units that addressed required standards.

Supervisor: Lamar Scott, Elementary Curriculum Director

- *Madison County Middle School, Madison Co., Georgia 2010*

Focus on evaluating teachers' curricular units through the lens of differentiated instruction.

Supervisor: Martie Hutchens, Northeast Georgia RESA

- *Statham Elementary, Barrow County, Georgia 2008 - 2009.*

Focus on evaluating and improving math instruction throughout the school by observing and modeling instruction, as well as working one on one with struggling teachers.

Supervisor: Mac Almond, Principal

Adjunct Instructor, Athens, GA 2008 - 2010

- Piedmont College 2008 - 2010

- Instructor, Media & Technology for Educators, 30 Undergraduate Students

- Student Teacher Supervisor Coordinator; Student Teacher Supervisor

- Advisor, 20 Undergraduate Students

Supervisor: Dr. Barb Benson, Associate Professor

Elementary Educator Athens, Georgia 2004 - 2008

- Regular Classroom, 3rd Grade, Whit Davis Elementary

• Gifted Education, 3rd - 5th Grade, Advanced Math and Science, Whit Davis Elementary

• Tutor of Homeless Children, Clarke County School District, Athens, Georgia, 2010 - 2012

Other Instruction Experience

- Clarke County School District, 2011

Instructor, Curriculum & Program Development, Gifted Endorsement

This course is the fourth in a series of four. It meets all standards required for the addition of the Gifted In-field Endorsement to a Georgia professional

teaching, service, or leadership certificate.

Supervisor: Karen Higginbotham, Director, Gifted Education

- Northeast Georgia Regional Educational Service Agency (NEGA RESA), 2008 - 2010
Instructor, Digging Deeper into Math Content, 25 Math Teachers and Instructional Coaches
This course was designed to help teachers develop a better understanding of math content knowledge. Instruction included hands-on seminar format coupled with modeling of instructional strategies in local elementary schools.
Supervisor: Martie Hutchens, Elementary Math Consultant
- Clarke County School District Workshops, Ad Hoc basis 2007 - 2010
Instructor, Various Math Workshops, Current Teachers
These workshops were designed to better acquaint teachers with teaching methods that aligned with the Georgia Performance Standards.
Supervisors varied.

Honors, Awards, & Conferences

- Audience Choice Award Winner, 4'33" Spotlight on Scholarship
University of Georgia's Art Council Competition
November 10, 2014
- Presenter, Interdisciplinary Research Conference
"STEAM Education: The Potential and the Peril"
February 28, 2014
- Presenter, Journal of Language and Literacy Education Conference
"Drawing in/on Math: Spatial Literacy"
University of Georgia, Athens, February 22, 2013
- Math Revision Team
Writer for Georgia 2nd Grade Math Curriculum
Georgia Department of Education, June 2013
- Member, Georgia Math Advisory Council, 2013 - 2014
- Georgia Council Teachers of Mathematics Conference
Presenter: Math Revision Team
Rock Eagle, October 17, 2013
- Illustrative Mathematics Project Task Contest Winner
National contest to illustrate a task for Common Core State Standards for Mathematics
March, 2012
Recruited to create further tasks for this database. November, 2012
- Finalist, 3 Minute Thesis
University-wide thesis/dissertation competition
March 29, 2012

Later asked to repeat this performance for the Dean's fundraising committee and for a the Columbus State Interdisciplinary Research Conference in October, 2014

- Georgia Association for Gifted Children Conference
Torrance Center (Dr. Bonnie Cramond)
Bizarre Bazaar Conference Presentation
Callaway Gardens, March 15 - 16, 2012

Publications

Cramond, B. & Gerow, K. S. (2017, January). Creativity and Math Education: Paradox or Praxis? HAWAII INTERNATIONAL CONFERENCE on Education. Honolulu, Hawaii.

Cramond, B. & Gerow, K. S. (in press). Creativity and Math Education: Paradox or Praxis? In R. Leikin, B. Sriraman (Eds.), *Creativity and Giftedness: Interdisciplinary Perspectives from Mathematics and Beyond*. New York: Nova Science Publishers.

Kellam, N., Gerow, K., & Walther, J. (2015). Narrative Analysis in Engineering Education Research: Exploring Ways of Constructing Narratives to have Resonance with the Reader and Critical Research Implications. Proceedings of the Educational Research Methods Division of the American Society for Engineering Education (ASEE) Intl. Mtg., Seattle, WA, Paper #13617.

Kellam, N., Walther, J., Wilson, G., Gerow, K., & Lande, M. (2015). Uncovering the Role of Emotion in Learning through First- and Second-Year Engineering Students' Narratives. The 6th Research in Engineering Education Symposium (REES), Dublin, Ireland.