

# Sandra A. Leiterman

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## PROFILE

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- Highly motivated, enthusiastic and dedicated STEM educator who wants to innovate teaching from the traditional lecture and textbook to newer research based methodologies.
- Experienced in developing curriculum as well as conducting professional development classes, for math, science and technology.
- Proven abilities in leadership, problem solving and motivation.
- Licensed Educator in Arkansas – 4-8 Math/Science, ESL, Algebra I and GT Endorsements.

## EDUCATION

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<b>University Arkansas</b>	Fayetteville, AR
<i>Doctor of Philosophy</i>	
Curriculum and Instruction, STEM Education	expected May 2020
<b>Kansas State University</b>	Manhattan, KS
<i>Master of Science</i>	2015
Curriculum and Instruction, Digital Teaching and Learning Specialty	
<b>University Arkansas</b>	Little Rock, AR
<i>Graduate Certificate</i>	2014
Gifted and Talented Education	
<b>University Arkansas</b>	Little Rock, AR
<i>Bachelor of Science</i>	2010
Middle School Education, Math/Science Specialty	

## CURRENT EMPLOYMENT

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<b>University Arkansas Little Rock</b>	Little Rock, AR
<i>Math Specialist</i>	2015-present

Scope of Responsibility:

- Create and provide state initiated math professional development
- Coordinate grant funded STEM conference targeting girls in underserved areas
- Develop and teach professional development courses in STEM Education, including math, computer science, education technology and engineering
- Manage team of student work staff, paid and scholarship

- Identify, develop and maintain federal and state grants that fund programs and services
- Prepare proposals, budgets and final grant reporting
- Analyze and report data for teaching and learning impact in the community
- Mentor scholarship students for their service projects

University Courses Taught:

*Step 2 – Introduction to Inquiry Based Instruction*

*Knowing and Learning in Math and Science*

*Project Based Instruction*

*Perspectives of Math and Science*

**PAST EMPLOYMENT**

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<b>Forest Heights STEM Academy</b>	Little Rock, AR
<i>8<sup>th</sup> grade science Teacher</i>	2014-2015
<b>Fuller Middle School</b>	Little Rock, AR
<i>6<sup>th</sup> grade GT Science Teacher</i>	2010-2014
<i>6<sup>th</sup>-8<sup>th</sup> grade STEM Teacher</i>	
<i>6<sup>th</sup> grade Pre-AP and GT Math Teacher</i>	
<b>Progressive Realty and Management</b>	2005-2012
Realtor for residential home buyers and sellers	

**PROFESSIONAL TRAINING**

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Advanced Placement MS Science	2015
Laying the Foundations Mathematics Years 1-3	2013-2014
Arkansas Leadership Academy	2012-2013

**PROFESSIONAL SERVICE**

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- 2015-present Co-coordinator Girls In STEM Conference (4-5 annually)
- 2011-present Coach/Mentor for all girls competitive robotics team
- 2014-present Mentor to coaches of startup robotics teams
- 2015- present Mentor to first VEXU Robotics team
- 2011-2016 Science Fair Judge, CARSEF, March 2016
- 2010 Wrote state approved curriculum for elective STEM 1 and STEM 2 classes at Fuller Middle School

2014 Member of the Arkansas State Science Standards Committee  
2012-2013 Science Department Chair – Fuller Middle School  
2011- 2012 Green Team and Science Olympiad Coach at Fuller Middle School

## **AWARDS AND HONORS**

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### **2013 STEM School of Excellence – International STEM Education Association**

This award was based on the curriculum and other programs that I designed and implemented at Fuller Middle School.

## **PROFESSIONAL DEVELOPMENT COURSES TAUGHT**

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Active Learning in the STEM Classroom, 2018  
Augmented and Virtual Reality in the Classroom, 2018  
Cognitively Guided Instruction (K-3 Math), 2016, 2017, 2018  
Cooperative Learning Strategies 2015, 2016, 2017  
Digital Storytelling in Math and Science 2015, 2016, 2017  
Extending Children’s Mathematics (3-5 Math), 2016, 2017, 2018  
Increasing Engagement through Effective Teaching and Learning (Math) 4 days 2018  
Project and Problem Based Learning 2015, 2016, 2017  
Student Centered Learning 2016, 2017  
Using Webs Depth of Knowledge in Math, 2017  
Using Google Apps in the Classroom 2014, 2015, 2016

## **CONFERENCE AND PROFESSIONAL PRESENTATIONS**

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Hughes, G. D., Hall, T. A., Chaney, K., S., Leiterman, S. A., & Cotabliish, A. (2016, November). *More IS better: Increasing the quantity and quality of STEM teachers*. Paper presented at the meeting of the Mid-South Educational Research Association, Mobile, AL.

Hughes, G. D., Hall, T. A., Chaney, K., S., Leiterman, S. A., & Pinneo, L. (2017, November). *Moving from Passive to Active STEM Instruction*. Paper presented at the meeting of the Mid-South Educational Research Association, Starkville, MS

Hughes, G. D., Hall, T. A., Chaney, K., S., Leiterman, S. A., & Pinneo, L. (2017, November). *It Starts With a Book*. Presentation at National Science Teachers Association Conference, New Orleans, LA

Adaire, C., Burnett, S., Harris, K., Layton, K., Leiterman, S. (2018, February) *How to Start A VEX Robotics Team*, Presentation at the Spotighting STEM Conference, Little Rock, AR

Leiterman, S. (2017, November) *Digital Storytelling is Elementary!* Presentation at the, National Science Teachers Association Conference, New Orleans, LA

Leiterman, S. (2017, November) *Throw That Textbook Out to Sea*. Presentation at the, National Science Teachers Association Conference, Milwaukee, WI

Leiterman, S. (2017, November) *Digital Storytelling- Not Just for Language Arts!* Presentation at the, National Science Teachers Association Conference, Milwaukee, WI

Leiterman, S. (2017, November) *Connected Educators Connect Learning*. Presentation at the, National Science Teachers Association Conference, Milwaukee, WI

Leiterman, S. (2017, November) *Connected Educators Connect Learning*. Presentation at the, Association of Middle Level Educators, Philadelphia, PA

Leiterman, S. (2017, November) *Student Centered Learning*. Presentation at the Computer Science Conference, Arkansas Curriculum Conference, Little Rock, AR

Leiterman, S. (2017, November) *The Power of Water*. Presentation at the Computer Science Conference, Arkansas Curriculum Conference, Little Rock, AR

Leiterman, S. (2017, November) *Connected Educators Connect Learning*. Presentation at the, Arkansas Curriculum Conference, Little Rock, AR

Leiterman, S. (2017, October) *Enhance Teaching Through Technology*. Presentation at the AAMLE, Hot Springs, AR

Leiterman, S. (2017, October) *Aligning DOK with Math Instruction*. Presentation at the Presentation at the AAMLE, Hot Springs, AR

Leiterman, S. (2017, October) *Connected Educators Connect Learning*. Presentation at the Computer Science Conference, Russellville, AR

Leiterman, S. (2017, March) *Student Focused Instruction*. Presentation at the AAMLE Little Rock, AR

Leiterman, S. (2016, November) *Project Based Instruction & Math is the Perfect Combination*. Presentation at the AAMLE Conference Little Rock, AR

Leiterman, S. (2016, November) *Project Based Instruction Meets NGSS*. Presentation at the NSTA Conference Portland, OR

Leiterman, S. (2016, November) *Do You Have a Digital Driver's License?* Presentation at the Computer Science Conference, Russellville, AR

Leiterman, S. (2016, May) *Project Based Instruction Meets NGSS*. Presentation at the Uteach annual conference, Austin, TX

Leiterman, S. (2016, April) *Technology Integration in Science and Math*. Presentation at the Arkansas Association for Middle Level Educators annual conference, Hot Springs, AR

Leiterman, S. (2016, April) *How to implement Project Based Instruction*. Presentation at the Arkansas Association for Middle Level Educators annual conference, Hot Springs, AR

Leiterman, S. (2015, November) *Digital Storytelling: Not just for Language Arts & Social Studies*. Requested Presentation at the Arkansas Curriculum Conference, Little Rock, AR

Leiterman, S. (2015, November) *Teach Arkansas Share-a-thon*. Presentation at the Arkansas Curriculum Conference, Little Rock, AR

Leiterman, S. (2015, September) *New Coaches Seminar*. Requested Presentation at the BEST Robotics Kickoff Day, Little Rock, AR

Leiterman, S. & Chaney, K. (2015, September) *Project Based Instruction*. Presentation at the Inaugural Office of Innovation for Education – Innovation Summit, Little Rock, AR.

Leiterman, S. (2015, August) *IPad Apps for Science and Math*. Presentation at the UALR Teach Mentor Teacher Invitational, Little Rock, AR.

Leiterman, S. (2015, April) *How to Use Google Apps for Education in the classroom*. Requested presentation at the Arkansas Association for Middle Level Educators annual conference, Little Rock, AR.

Leiterman, S. (2015, April) *Digital Storytelling: Not just for Language Arts & Social Studies*. Presentation at Arkansas Association for Middle Level Educators annual conference, Little Rock, AR

Leiterman, S. (2014, August) *The Paperless Classroom*. Professional Development 3 hour Session at Forest Heights STEM Academy, Little Rock, AR.

Leiterman, S. (2014, April) *How to Use Google Apps for Education in the classroom*. Presentation at Arkansas Association for Middle Level Educators annual conference, Hot Springs, AR

Leiterman, S. (2013, November) *Using Google Apps for Education in the Classroom*. Professional Development, two 3 hour sessions at Fuller Middle School, Little Rock, AR.

Leiterman, S. (2013, May) *Edmodo in Middle School*. Presentation at Arkansas Association for Middle Level Educators annual conference, Little Rock, AR.

Leiterman, S. (2012, November) *Using Edmodo*. Professional Development, 3 hour session at Fuller Middle School, Little Rock, AR.

Leiterman, S. (2012, August) *Integrating the Engineering Design Process across Disciplines*. Professional Development, 3 hour session at Fuller Middle School, Little Rock, AR.

## **GRANTS AWARDED**

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NCLB- Teacher Quality State Grant, Title II: \$74,714. Building collaborative professional learning communities that support common content and assessment activities in K-12 Mathematics and Science that improve teacher quality and student achievement. In a partnership with Central Arkansas Water we designed learning experiences for teachers that study the drinking water processes from the watershed to the faucet.

Arkansas STEM Coalition: STEM Leadership for Girls Conference, \$18,600, UALR Spring 2017. Planned 4 one-day workshops at UALR with a goal improve opportunities and to encourage young Arkansas females to pursue collegiate careers in STEM related occupations, particularly in grades 10-14. The workshops featured several women in STEM speakers with a goal to promote interest in science, technology, engineering and mathematics and ultimately reduce the stereotype that these fields are mainly for males.

## **GRANT SUPPORT**

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Arkansas Department of Education: Computer Science, \$35,335, UALR, Summer 2016. UALR 9-12 Computer Science Certification. Created lessons on digital citizenship to teach to aspiring computer science teachers. I also taught the pedagogy of teacher computer science to high school teachers to the same group of teachers.

UALR Teach Noyce Scholarship Program, National Science Foundation Grant, \$1.2 million, UALR, Fall 2015 - Present. Assist students in lesson planning for teaching STEM lessons in local

middle and high schools. Perform TESS observations on their practice teachers, and provide professional development for all teachers that host a Noyce Scholar.

US Department of Education: Mathematics and Science Partnership Grant, \$139,000, UALR, Fall 2015 - Present. UALR K-4 Science Integration MSP, Arkansas. Design and teach technology integrated science lessons for K-4 teachers using current NGSS science standards. Also teach collaborative learning strategies for the same group of teachers, as well as provide observation support for participating teachers.