Christopher A. Preece

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website: www.atomicuniverse.org

EDUCATION:					
	GRADUATE STUDIES:				
2016 - Present	University of Kentucky: STEM Education Graduate School, Lexington, Kentucky				
Ph.D. Candidate (All But Dissertation)					
	Ph.D. Research - Chemical Literacy Through Comic Books: Examining the Impacts of				
	Learning Through Narrative and Sequential Art in a High School Chemistry Classroom				
2011 - 2012	Morehead State University, Morehead, Kentucky: Master of Arts in Teaching				
2007 - 2009	University of Kentucky: Chemistry Graduate School, Lexington, Kentucky				
	<u>UNDERGRADUATE STUDIES:</u>				
2004 - 2007	Morehead State University, Morehead, Kentucky: B.S. Chemistry				
EMPLOYMEN 2016 P	T:				
2016 – Present	Atomic Universe LLC: Owner				
2019 – Present	S.T.E.M. Curiosity, Inc.: Executive Director				
2019 – Present					
2017 D	Middle/Secondary Science Methods				
2015 – Present	Berea High School: Integrated Science and Chemistry Teacher				
	• Teaching 3 classes of College-Prep Chemistry				
	Teaching 2 class of AP Integrated Science				
	After school tutoring for chemistry				
	• Developed and implemented curricula for authentic student research projects				
	• Developed and organized a community S.T.E.M. night to showcase student work				
2013 – 2015	Mahwah High School: AP Chemistry and Chemistry Teacher				
	 Teaching 3 classes of College-Prep Chemistry 				
	• Teaching 1 class of AP Chemistry				
	 After school tutoring for chemistry 				
2012 - 2013	Elliott County High School: Integrated Science and Chemistry Teacher				
	 Teaching 5 classes of Integrated Science 				
	 Teaching 1 class of Introduction to Chemistry with Earth and Space Science 				
	 Teaching 1 class of Science Study Skills 				
	 After school tutoring for science and math 				
2011 - 2012	Montgomery County High School: Chemistry Teacher				
	 Teaching four classes of Chemistry 1 				
	 Teaching two classes Pre-AP Chemistry 				
	 Assistant Academic Coach: Team achieved 1st place in region and 18th in state 				
2010 - 2011	Acculab Inc.: Lab Technician				
	 Analyzed metals on Flame AA 				
	Analyzed Mercury on CVAA				
	 Maintained instrumentation 				
2010 <u>Martin County Board of Education</u> : Substitute Teacher, all grade leve					
	 Enforced all school rules 				
	 Ensured the students do the work assigned 				
2007 - 2009	UNIVERSITY OF KENTUCKY: Teaching assistant and research assistant				
	 Assisted undergraduates through learning and understanding key concepts 				
	 Graded course assignments such as worksheets, lab reports, and lab practicals 				
	 Assisted in mentoring new graduate students 				
	 Substituted for professors when needed 				
	 Assisted undergraduates in inorganic laboratory experiments 				
	Directed the research of undergraduates				
	• Determined chemically bonded versus physically adsorbed Hg in B9 and Hg mixture				

• Investigated the thermal stability of B9

2004 - 2007 MOREHEAD STATE UNIVERSITY: Tutor

- Helped students understand basic concepts in chemistry, math and other courses
- Related material in unique ways to foster the learning of each student

PUBLICATIONS:

2017, CheMystery, ThunderStone Books

SKILLS AND ABILITIES:

Experienced in Excel, PowerPoint, Word, and Weebly. I do well with collaborating with others, being supportive, diligently follow instructions, being creative, knowing content knowledge, maximizing instructional time, developing curriculum, and engaging students.

PRESENTATIONS AND WORKSHOPS:

2015	Lexington Comic & Toy Con: The Science of Superheroes with Bob Hall and Kody Chamberlain
2015	Awesome Con: The Science of Superheroes with Duncan Rouleau and Tom King
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- 2015 Baltimore Comic Con: The Science of Superheroes with Mark Waid and Ramon Fradon
- 2016 Lexington Comic & Toy Con: The Science of Superheroes with Matt Hawkins and Nathan Fox
- 2016 Indiana Comic Con: The Science of Superheroes with Neal Adams
- 2017 Lexington Comic & Toy Con: Science in Comics
- 2017 Heroes Con: Science in Comics with Josh Reynolds, Matt Brady, and Shari Brady
- 2017 KSTA Conference: Using Science Comics in the Classroom with Josh Woodward
- 2017 Derby City Comic Con: The Science of Superheroes with Megan Scholar
- 2018 LTUE: The Science of Superheroes
- 2018 Lexington Comic & Toy Con: The Science of Superheroes with Jim Shooter and Erica Shultz
- 2018 ConGlomeration: Science in Comics
- 2018 Indy Pop Con: Science in Comics
- 2018 Indy Pop Con: Kids Science Workshop
- 2018 Cincinnati Comic Expo: Science in Comics
- 2018 Denver Comic Con: STEM Education Science in Comics
- 2018 KAEE Conference: Student Driven Authentic Science Research
- 2019 Lexington Comic & Toy Con: Kids Science Workshop (Light and Colors, Sound, Making Simple Motors, and Making Slime).
- 2019 Indiana Comic Con: Kids Science Workshop (Building Catapults, Making Simple Motors, and Making Slime).
- 2019 Chicago Comic Con Revolution: (Building Catapults, Making Simple Motors, and Making Slime).
- 2019 Fall Fan Fest: In Booth Kids Science Activities

GRANTS:

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2019	ACS-Hach Chemistry Teacher Professional Development Grant
	Amount \$1,300
2019	James S. Brown Graduate Student Award for Research on Appalachia
	Amount \$1,000

RESEARCH PROJECTS:

Developing Chemistry Mental Models About Solutions

Secondary Chemical Literacy Through Text, Narrative, and Visuals.

RESEARCH INTERESTS:

Chemical Literacy, Multimodal Literacy, Science Inquiry, Developing Science Curriculum, Developing Mental Models

REFERENCES:

Advisor		
Jennifer Wilhelm, Ph.D.	(859) 257-1291	jennifer.wilhelm@uky.edu
Ph.D. Committee Member		
Rebecca Krall, Ph.D.	(859) 257-2176	rebecca.krall@uky.edu
Colleague		· .
Travis Blankenship	(276) 312-2791	travis.blankenship@berea.kyschools.us