

SARAH A. WANGER

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Knowledgeable educator with experience inside and outside the classroom as a teacher, 1:1 tutor, study group leader, informal educator, and curriculum developer. Seeking a position as a tutor, teacher, instructor, or informal educator.

SUMMARY OF SKILLS AND KNOWLEDGE

- Experience in educational & social environments with diverse students, special needs individuals, & adult learners
- Teaching, 1-on-1 tutoring, and small group lesson experience in both face-to-face & virtual environments
- STEM teaching experience in: Chemistry, Physics, Earth Science, Mathematics, Calculus, Computers, and others
- Test Preparation tutoring for multiple exams from primary grade state tests through professional certifications
- Education coursework & experience in Curriculum Planning, Resident Advising, Event-Planning, & Scheduling

EDUCATION

Master of Arts in Geoscience - West Chester University of PA, August 2014 - Magna Cum Laude, 3.8

Bachelor of Science Physics - The College of New Jersey, May 2007 - Cum Laude & Dean's List, 3.6

CLASSROOM TEACHING POSITIONS

SAT & ACT Prep *AP Academy, North Wales, PA*. Fall 2015 - Spring 2020

- Taught ACT Science and SAT I Math prep courses; Tutored SAT II tests in Math 2C, Chemistry, & Physics

Science Edutainment *Wondergy Science, Philadelphia PA* Spring 2011 - Fall 2012, Spring 2018 - Spring 2019

- Presented interactive shows to small & large audiences; Ran demonstrations at fairs and festivals
- Developed & taught informal science education on polymers, optics, energy, weather, physics, and chemistry
- Lead science edutainment programs for adults at corporate events

Mathematics & Elementary Science *AP Academy, North Wales & Upper Darby, PA*. Fall 2015 - Summer 2019

- Developed curriculum for and taught Primary, Elementary, and Middle School math summer math programs
- Developed curriculum for and taught science summer camp science programs for grades K-8
- Developed curriculum for and taught 4th & 5th grade math, Algebra-based SAT Math, Algebra I & Algebra II

Algebra 1 & Earth Science *WebWise Education, online* Fall 2016 - Summer 2017

- Taught Algebra 1 and Earth Science courses and lead interactive discussion sections
- Provided intervention support and 1-on-1 tutoring for students struggling in their mathematics courses

Math & Science *various companies, online* Fall 2013 - Spring 2017

- Taught online classes in various math and sciences including high school and college-level courses
- Provided academic support and tutoring sessions for special needs students including ADHD and Autism

Earth Science *Delaware County Community College, Upper Darby, PA* Fall 2015 - Fall 2016

- Adjunct professor for ESS 100 - Natural Hazards course, including lecture & lab sections

PSAT & SAT Prep Classes *EdgePrep, online*, Summer 2014 - Fall 2014

- Taught a 2-day prep course for the PSAT and SAT tests using the EdgePrep system
- Mentored students in test preparation, college admissions, and developing a study schedule

Mathematics & Honors Chemistry *Y2 Academy of North Wales, North Wales PA* Summer 2013 - Summer 2015

- Taught summer courses in Honors Chemistry, Algebra I, Functions, Trigonometry, Precalculus, and Calculus
- Small group tutoring sessions in Pre-Algebra, Algebra I & II, Geometry, and Precalculus

SAT & ACT Prep *Yale Academy of North Wales, North Wales PA* Spring 2013 - Summer 2014

- Lead SAT Math review sessions and taught SAT Math classes and ACT Math & Science classes

Science Clubs & Camps *Science Explorers, various locations*, Spring 2013 - Spring 2014

- Taught afterschool clubs on Anatomy, Polymer Chemistry, Marine Biology, Energy, Circuits, & Alternative Energy
- Lead hands-on science workshops in geology, photoluminescence, polymers, and simple machines
- Co-Taught Ancient Civilizations Camp on The Stone Age, Mesopotamia, Egypt, Greece, Rome, and China
- Ran camps on marine biology, thermochemistry, reactions & changes, polymers, acids & bases, sharks, water

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Lego Engineering *Bricks 4 Kidz, various locations, PA* Fall 2012 - Summer 2013

- Used Legos in STEM lessons on: Forces, Astronomy, Robots, Construction, Illusions, Tools, Animals, Bridges
- Gave lessons on history, science, and modeling of various historical, modern, and futuristic transit modes
- Used blocks to foster creativity, build social skills, teach STEM, and improve fine motor skills for special ed classes

SAT Math *Delta Sigma Theta Philadelphia Alumni Association, Philadelphia PA* Fall 2012

- Taught weekly SAT Math Workshops and Assisted with SAT Verbal Workshops

Physics 101 *Drexel University, Philadelphia, PA* Fall 2008 – Spring 2009

- Taught recitation sections for general physics with calculus, and proctored quizzes and final exams

ONE-ON-ONE TUTORING & SMALL-GROUP TEACHING EXPERIENCE

Earth Sciences	<u>K-12</u> : Conservation, Earth & Environmental Science, Energy, Oceanography, Astronomy, Geography, Weather & Climate, The Rock Cycle, Urban Forestry, AP Environmental Science
	<u>College</u> : Intro. Astronomy, Earth Systems, Meteorology, Natural Hazards, Geology, Earth Science
Physics & Engineering	<u>K-12</u> : GED Science, Physical Science, Sound, LegoEngineering, Kinematics, Circuits, Energy, Mechanics, E&M, Waves & Optics, Lasers, Science Fair Projects, IB Physics, AP Physics B/C & 1/2
	<u>College</u> : General Physics 1&2, Mechanics, Computational Physics, Mechanical Engineering, Architecture
Chemistry	<u>K-12</u> : Cool Science, Science of Ice Cream, Kitchen Concoctions, Crazy Chemistry, Polymers, Physical & Chemical Changes, Potions & Poisons, IB & AP Chemistry, Biochemistry, Writing Lab Reports
	<u>College</u> : General Chemistry 1&2 and Lab, Organic Chemistry 1&2 and Lab, Biochemistry, MCAT Chem
Life Science	<u>K-12</u> : Life, Classification, Genetics, Evolution, Marine Biology, Body Systems, Toxicology, Forensics
	<u>College</u> : Biology, Anatomy & Physiology with Lab, Symbioses, Organic Chem, Pre-Medicine, Ecology, Bioinformatics, Radiation Dosing, Enzymes, Neuroscience, Midwifery, MCAT Preparation, Pharmacology, Research Ethics, Biomedical Science, Toxicology, Developmental Bio, Medical Terminology, Audiology
Mathematics	<u>K-12</u> : Basic Math, Measurement Skills, Pre-algebra, Algebra 1&2, Functions, Geometry, Trigonometry, Probability & Statistics, Pre-Calculus, Calculus, Magic Squares, Numerology, AP Statistics, AP Calc AB & BC, IB Mathematics, PAST/SAT I & ACT Math, SAT II: Math 1 & 2C, ASVAB, Logic
	<u>College</u> : Finance, Trigonometry, Statistics, Pre-Calculus, Calculus 1&2, Accounting 1&2, GRE & GMAT
English & Writing	<u>K-12</u> : English, Grammar, Vocabulary, Essay Writing, Literature, Poetry, Shakespeare, Research Paper Writing, Parts of Speech, Oral Presentations, AP English, PSAT/SAT I & II Writing
	<u>College</u> : English Composition, Academic Writing, Poetry Analysis, Research Papers, Technical & Business Writing, Literature Reviews, Reading Scientific Journals, Communication for Healthcare
Foreign Languages & Cultures	<u>Judaism & Hebrew</u> : Hebrew Reading, Basic Vocabulary, Torah-Reading/Chanting, Jewish Beliefs
	<u>Sign Language</u> : Fingerspelling, Sign names, American Sign Language, Sign Language Verbs
	<u>Cultures</u> : Comparative Religion, Cultural Explorations, Religious Themes in Film, Japanese
History & Government	AP US History, Early Americas, Native Americans, Exploration & Trade, Colonization & Imperialism, WWI & WWII, Early Humans & Humanoids, Ancient History, Current Events, Civics, Legislative Process
Computers	Basic Computing, Microsoft Office, Databases, Computation in Excel, Layout Design, Quarkxpress, Java, Introduction to Programming, AP Computer Science (in Java)

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