

## EDUCATION

---

University of Akron	Master of Arts, Secondary Science Education, 2009	Akron, Ohio
Kent State University	Bachelor of Science, Physics Education, 1999	Kent, Ohio

## CERTIFICATIONS

---

NBCT Science--Adolescent & Young Adulthood—Physics. Renewal in 2027.  
Ohio Professional License, High School (7-12): Physics, General Science. Renewal in 2023.  
Kentucky Professional Certificate for Teaching Physics, Grades 8-12. Renewal in 2027.

## TEACHING EXPERIENCE

---

**South Warren High School** Bowling Green, Kentucky  
*Physics Teacher* 2012-2016, 2017-2019, 2020-present

- Taught daily classes including Astronomy, Physics, Honors Physics, Modern Physics, AP Physics B, AP Physics C: Mechanics, and AP Physics 2 classes in semester length blocks.
- Adopted flipped classroom instructional model (2013). Science Department Chair (2014-2016). Adopted modeling instruction & standards-based assessment (2020).

**Kent State University** Kent, Ohio  
*Lecturer* 2016-2017

- Developed and taught introductory courses including General College Physics I, Seven Ideas That Shook the Universe, Frontiers in Astronomy, and Physics in Entertainment and the Arts.

**Archbishop Hoban High School** Akron, Ohio  
*Physics Teacher* 1999-2002, 2003-2012

- Taught classes including Astronomy, Earth science, Conceptual Physics, college preparatory physics, honors physics, and AP Physics C classes. Science Department Chair (2004-2012).

**University of Wyoming** Laramie, Wyoming  
*Teacher in Residence* Summer 2010, 2011, 2012, 2014, 2015, 2019, 2023

- Developed and implemented science lessons in conjunction with Bernard Harris Exxon Mobil Summer Science Camp & UW Physics and Astronomy for forty-eight 5<sup>th</sup>-7<sup>th</sup> grade students during a 10-day in-residence camp at University of Wyoming.
- Similarly, with UW Teton Science Academy with high-school students in 2019 & 2023.

**Ohio State University** Columbus, Ohio  
*Graduate Teaching Assistant* 2002-2003

- Served as recitation instructor for two sections of engineering honors students in introductory calculus-based physics. Co-taught an all-inquiry electricity course for non-science majors.

## AWARDS / ACHIEVEMENTS

---

**Kentucky Finalist for Presidential Award for Excellence in Mathematics & Science Teaching (PAEMST)** 2023  
Selected as one of three science teachers by Kentucky state committee for recognition by the National Science Foundation and the White House's Office of Science and Technology Policy.

**Albert Einstein Distinguished Educator Fellowship** 2019-2020

## MATTHEW A BRYANT

Selected as one of nine fellows in national search by U.S. Department of Energy. Served as legislative assistant to Congressman Raúl M. Grijalva (AZ-03). Conducted research, took meetings with constituents and groups, wrote questions & remarks, and prepared congressman for U.S. House Education & Labor Committee hearings. Revised two bills for reintroduction and wrote a third for later introduction. Served as point of contact for education-related issues and other portfolio issues: science, space, & tech., telecom., small business, pensions, gun control, arts & humanities, and civil rights & liberties. Developed and enacted a professional growth plan and engaged in twice monthly STEM teacher professional development.

### **EinsteinPlus** 2018

Selected by Perimeter Institute of Theoretical Physics (Waterloo, Ontario) for competitive one-week intensive workshop for Canadian and international high school teachers focusing on modern physics.

### **National Board Certification** 2017-2027

Certified by National Board for Professional Teaching Standards in Adolescent/Young Adult Physics teaching by completing rigorous process that included evidence of physics content & pedagogy, differentiated instruction, teaching & learning practices, and reflection on effective teaching. Maintained Certification 2022-2027.

### **Warren County Public Schools (WCPS) Golden Apple Award** 2014

Nominated by colleagues and chosen as an award winner as an employee who practices “an on-going and high level of commitment to their job, their district, their students, and their fellow employees.”

### **Research Experience for Teachers** Summer 2004 & 2006

Selected for two-month RET program. Observed & recorded astronomical data at University of Wyoming’s Wyoming Infrared Observatory. Reduced astronomical images for photometry. Wrote successful education grant for Hubble Space Telescope E/PO program. Assisted with UW’s 6-9<sup>th</sup> grade astronomy camps.

## **PROFESSIONAL INVOLVEMENT / SERVICE (local, regional, national)**

### **Warren County Public School District** 2014-present

- Serve on committees to update physics course alignment across four district high schools
- Lead district-wide physics teacher professional development on designated PLC days. Topics: standards-based grading, U. of Colorado’s PEER Physics, data-driven pedagogy (2022-2023)

### **Western Kentucky University Physics Alliance** Active Member since 2012

- Meet twice yearly to share physics teaching ideas and equipment with other local physics teachers from five high schools in Warren County and surrounding counties
- 2022-2023 presentations: teaching work & energy through inquiry, use of video in labs, and use of wireless probe-ware.

### **Physics Teacher Mentor** Fall 2022

- Served as cooperating teacher for a Physics Secondary Education major.

### **STEPUP Physics Together** Active since 2021

- KY Ambassador to Support Teachers to Encourage the Pursuit of Undergraduate Physics
- Presented STEPUP workshop at Kentucky Association of Physics Teachers in March of 2022

### **American Association of Physics Teachers (AAPT)** Active Member since 1999

- Serve on Committee on Physics in High Schools (through 2023) to support HS teacher needs
- Serve on K-12 Taskforce (through summer 2023) to improve K-12 teacher experiences in AAPT
- Assisted in planning 2023 High School Physics Teachers Camp for AAPT’s Summer Meeting

MATTHEW A BRYANT

**National Science Teaching Association (NSTA)**

Active Member since 1999

- Article Reviewer for NSTA's *Science Scope* journal (2020-present)
- Abstract Reviewer for NSTA's 2023 National Conference

**American Modeling Teachers Association (AMTA)**

Active Member since 2019

**Advanced Placement (AP) Physics Reader**

2015, 2016, 2018, 2020, 2022