

Matthew A. Bryant

Personal Contact Information Available Upon Request
<http://www.mrbryant.net>

Professional Objective

Promote science and inspirationally communicate physics to students at all levels.

Certification

NBCT Science--Adolescent & Young Adulthood—Physics. Renewal in 2022.
Ohio Professional License, High School (7-12): Physics, General Science. Renewal in 2023.
Kentucky Professional Certificate for Teaching Physics, Grades 8-12. Renewal in 2022.

Education

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

Teaching Experience

Physics Teacher *South Warren High School, Bowling Green, Kentucky (2012-2016, 2017-2019, 2020-present)*
Taught daily classes including: Astronomy, Physics, Honors Physics, Modern Physics, AP Physics B, and AP Physics C: Mechanics classes in semester blocks. Adopted flipped classroom instructional model (2013). Warren County Public Schools Golden Apple Award (2014). Advised Key Club (2013 & 2014), Science Club (2012-2016), Role-Playing Games Club (2017-present). Adopted modeling instruction & standards-based assessment (2020).

Lecturer *Kent State University, Kent, Ohio (2016-2017)*
Developed and taught introductory courses that include General College Physics I, Seven Ideas That Shook the Universe, Frontiers in Astronomy, and Physics in Entertainment and the Arts.

Physics Teacher *Archbishop Hoban High School, Akron, Ohio (1999-2002, 2003-2012)*
Taught daily classes including: Astronomy, Earth science, Conceptual Physics, Active Physics, College preparatory physics, Honors physics, and AP Physics C classes. Advised Student Council, Photography Club, Science Olympiad, Academic Challenge, & Model Bridge teams.

Teacher in Residence *University of Wyoming, Laramie, Wyoming (Summer 2010, 2011, 2012, 2014, 2015, 2019)*
Developed and implemented science lessons in conjunction with the Bernard Harris Exxon Mobil Summer Science Camp & UW Physics and Astronomy for forty-eight 5th-7th grade students during a 10-day in-residence camp at the University of Wyoming. Similarly, with UW Teton Science Academy with high-school students in 2019.

Graduate Teaching Assistant *Ohio State University, Columbus, Ohio (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.

Related Experience

Albert Einstein Distinguished Educator Fellowship *U.S. Department of Energy, Washington, D.C. (2019-2020)*
Served as a legislative assistant in the office of Congressman Raúl M. Grijalva (AZ-03). Conducted research, took meetings with constituents and groups, wrote questions and remarks, and prepared the congressman for the U.S. House Education & Labor Committee hearings. Prepared two bills for reintroduction and wrote a third for later introduction by the congressman. Served as point of contact for education related issues and my other portfolio

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issues including science, space, and technology, telecommunications, small business, pensions, gun control, arts & humanities, and civil rights & liberties. Developed and enacted a personal professional growth plan and engaged in twice monthly STEM teacher professional development provided as part of the fellowship.

Science Department Chair

South Warren High School, Bowling Green, KY (2014-2016)
Archbishop Hoban High School, Akron, Ohio (2004-2012)

Developed, updated, and revised science department curriculum including oversight of department curriculum mapping and implementation of inquiry-based labs and written reports. Held regular meetings for department members and submitted minutes of meetings to administration. Interviewed and mentored new science teachers. Represented views of department members to and participated in school's Academic & Leadership Councils.

Advanced Placement Physics Reader

Educational Testing Service, Kansas City, MO (2015, 2016, 2018, 2020)

Applied a standardized rubric in reading and scoring student answers on the Advanced Placement Physics 1 and C: Mechanics Exams. Met and collaborated with colleagues on best practices for addressing student needs in AP and non-AP Physics courses.

Physics Mentor Teacher

College of Education, University of Akron, Akron, Ohio (2006, 2007, & 2008)

Served as a mentor teacher for three visiting French student teachers through the *Franco-American Teacher in Training Institute (FATITI)* program through the University of Akron. Served as mentor teacher for six in-service Summit County science teachers studying to become certified physics teachers through an Ohio Core Program Grant: *Preparing Career Professionals for Physics* funded through the Ohio Department of Education. (2006-2007)

Research Experience for Teachers

Department of Physics & Astronomy, University of Wyoming, Laramie, Wyoming (2004 & 2006)

Observed and recorded astronomical data at the Wyoming Infrared Observatory (2.2 meter). Reduced astronomical images for photometry. Organized and wrote successful education grant for the Hubble Space Telescope E/PO program.

Professional Organizations

American Association of Physics Teachers (AAPT, 1999-present)

AAPT Physics in High Schools Committee (2021-2024)

STEP UP Advocate (2021-2022)

American Modeling Teachers Association (AMTA, 2019-present)

National Science Teachers Association (NSTA, 1999-present)

Phi Delta Kappa International (PDK, 2010-present)

Recent Professional Development

Modeling Physics Mechanics, AMTA, Wheaton, IL, June 14-25, 2021

AMTA National Conference, June 2020 & July 2021

Introduction to Modeling Instruction Course, AMTA, January-April 2020

Society for Photographic Education Conference, Houston, TX, March 2020

AAPT Winter Meeting, Orlando, FL, January 2020

Question Formulation Technique, Harvard Graduate School of Education, October-November 2019

NSTA National Conference, St. Louis, MO, April 2019

Einstein Plus Workshop, Perimeter Institute of Theoretical Physics, Waterloo, ON, July 2018

NSTA National Conference, Atlanta, GA, March 2018

National Board Certified Teacher (NBCT)—Certified December 2017

Flipped Classroom Two-Week Workshop, Kent, OH, June 2017

Peer Instruction Workshops w/ Eric Mazur, Kent, OH, February 2017