

# Matthew A. Bryant

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

## Professional Objective

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

## Certification

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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

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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

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### **Physics Teacher**

*South Warren High School, Bowling Green, Kentucky (2012-2016, 2017-present)*

Developed and implemented unit and lesson plans for courses in Astronomy, Physics, Pre-AP Physics, Modern Physics, AP Physics B, and AP Physics C: Mechanics classes in semester length blocks. Devised and implemented instructional material, tests, and inquiry labs. Coordinated selection and purchase of physics instructional and laboratory materials. Conducted interventions for students not meeting college readiness benchmarks on the PLAN and ACT exams. Transitioned to a flipped classroom instructional model. Warren County Public Schools Golden Apple Award Recipient - February 2014. Advised Key Club (2013 & 2014), advised Science Club (2012-2016), advised Role-Playing Games Club (2017-present).

### **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)*

Developed and implemented unit and lesson plans for daily classes in astronomy, earth science, conceptual physics, active physics, college preparatory physics, honors physics, and AP Physics C classes. Devised and implemented instructional material, tests, and inquiry labs. Coordinated selection and purchase of physics instructional and laboratory materials. Served as Audio/Visual Coordinator, advised Student Council, Photography Club, Science Olympiad Teams, Academic Challenge, and balsa wood Model Bridge teams.

### **Teacher in Residence**

*University of Wyoming, Laramie, Wyoming (Summer 2010, 2011, 2012, 2014, & 2015)*

Developed and implemented science lessons in conjunction with the Bernard Harris Exxon Mobil Summer Science Camp run through the Department of Physics and Astronomy for forty-eight 5<sup>th</sup>, 6<sup>th</sup>, and 7<sup>th</sup> grade students during a 10-day in-residence camp at the University of Wyoming. Also assisted with logistical planning and with team-building and camaraderie of the campers.

### **Graduate Teaching Assistant**

*Ohio State University, Columbus, Ohio (2002-2003)*

Served as recitation instructor for two sections of freshmen engineering honors students in introductory calculus-based physics. Co-taught in all-inquiry electricity course for non-science majors. Developed and implemented various inquiry-based assignments involving group work and analysis of former students' work.

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### Related Experience

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- 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. Coordinated remediation efforts for students needing to meet benchmarks on science tests (OGT and ACT). Assisted in school admissions and recruitment events.
- Advanced Placement Physics Reader** *Educational Testing Service, Kansas City, MO (2015, 2016, & 2018)*  
Applied a standardized rubric in reading and scoring student answers on the Advanced Placement Physics I Exam. Met and collaborated with colleagues on best practices for addressing student needs in AP and non-AP Physics courses.
- Scheduling Specialist** *Archbishop Hoban High School, Akron, Ohio (2010, 2011, 2012)*  
Assisted in building the master schedule of classes based on student requests and faculty availability. Ensured students could schedule required courses. Worked with students and parents to make necessary schedule adjustments to fit with the master schedule.
- FATITI Mentor Teacher** *College of Education, University of Akron, Akron, Ohio (2006, 2007, & 2008)*  
Served as a mentor teacher for visiting French student teachers through the *Franco-American Teacher in Training Institute (FATITI)* program through the University of Akron. Advised and supervised their development and implementation of physics lessons for college preparatory and honors physics classes.
- Physics Teacher Mentor** *College of Education, University of Akron, Akron, Ohio (2006-2007)*  
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. Met weekly to assist with physics assignments and conducted a "Technology in Physics Labs" workshop for all program participants.
- 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 education grant for the Hubble Space Telescope E/PO program. Implemented grant proposal and developed curriculum for teaching light and color.

### Professional Organizations

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- American Association of Physics Teachers (AAPT, 1999-present)  
National Science Teachers Association (NSTA, 1999-present)  
Phi Delta Kappa International (PDK, 2010-present)

### Recent Professional Development

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- Einstein Plus Workshop at 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