

# Matthew Perkins Coppola, Ph.D.

Associate Professor, School of Education & College of Science

Purdue University Fort Wayne, Fort Wayne, IN

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<https://orcid.org/0000-0003-3354-3645>

## EDUCATION

### **Doctor of Philosophy, Theory and Practice in Teacher Education**

The University of Tennessee Knoxville, TN, May 2010

Concentration: Science Education

Cognate: Instructional Technology

### **Master of Arts, Physics Education**

University of North Carolina at Pembroke, NC, December 2002

### **Bachelor of Arts, Physics**

Berea College, Berea, KY, May 1998

Minor: Mathematics

## TEACHING EXPERIENCE

### Purdue University Fort Wayne

Assistant/Associate Professor

[PFW course catalog](#)

#### Department of Teacher Education (75%)

[Luke Rodesiler](#), chair

- EDU 32800 *Science in Elem Schools*
- EDU 44900 *Methods of Teaching Sci in Secondary Schools*
- EDU 32900 *Engineering in K-8 Schools*
- EDU 20002 *Computers in Education*
- EDU 20001 *Intro to Scientific Inquiry*
- EDU 40001 *Instructional Methods in Environmental Sci*
- EDU 20000 *Examining Self as Teacher*
- EDU 47300 *STEM Practicum*

#### Department of Physics (25%)

[Gang Wang](#), chair

- PHYS 13500 *The First Three Minutes*
- PHYS 21000 *Nature of Physical Science I*
- PHYS 22000 *General Physics I*
- PHYS 22100 *General Physics II*
- PHYS 25100 *Heat, Electricity, & Optics*
- PHYS 17000 *Identity Mindset in Physics*
- PHYS 17000 *Learning & Teaching Physics*

### **Towson University**

Lecturer

#### Department of Physics, Astronomy, and Geosciences

[Jennifer Scott](#), chair

- PHYS 211 *General Physics I*
- ASTR 161 *General Astronomy I*
- PHYS 131 *Light and Color*
- PHSC 303 *Earth and Space Science for Elementary Education*
- SCED 396 *Supervision of Student Teaching*

Towson UTeach

- SEMS 110 *Intro to STEM Teaching I*
- SEMS 130 *Intro to STEM Teaching I & II*

**The University of Tennessee, Knoxville**

Instructor/Graduate Teaching Assistant

- TPTE 352 *School-Based Field Experiences in Teaching*
- TPTE 353 *Community-Based Field Experiences in Teaching*

**The University of North Carolina at Pembroke**

Adjunct

- PHS 156 *Astronomy*
- PHS 110 *Physical Science I*
- PHY 150 *College Physics I*

### **High School Teaching Experience**

- 2004 – 2013     **[Oak Ridge High School](#)**, Oak Ridge, TN  
*AP Physics B, AP Physics C, General Physics, Environmental Science, Scientific Research, Global Science*  
Lead Sponsor for Science Olympiad (Tennessee state champions 2004, 2005, 2009)  
Co-founder of FIRST Robotics Competition Team 4265 Secret City Wildbots  
(Smoky Mountain Regional Rookie of the Year 2012, Worlds qualifier 2012, 2013)
- 1998 – 1999     **Somerset Independent High School**, Somerset, KY  
*Honors Physics; Physical, Earth, & Space Science*  
Volunteer Cross-Country and Track & Field coach, Science club sponsor

### **Informal Teaching Experience**

- 1999 – 2003     **Robeson Planetarium and Science Center**, Lumberton, NC  
*Director*, developed programs and lessons, then taught to grades 3-8 students in the Public Schools of Robeson County. Opened facility for the general public and community organizations.

## **MENTORING**

### ***Graduate Research***

- 2024-2025     Member, Master's Thesis, Alekzander Green, Computer Science  
Title: *An Analysis of LLM Use in Introductory Programming Education and Development of AI Resistant Assessments Via Code Reviews*

### ***Undergraduate Research***

- 2025-2026     Physics Senior Thesis Research, Jaron Bobay, Physics  
Title: *Examining Mindset, Self-Efficacy, and Sensemaking in an Undergraduate Physics Course for Preservice Elementary Teachers*
- 2025-present     H-Option Research Project, Sam Haas, Physics  
Title: *Variations in UU Virginis*

|             |                                                                                                                                                                                                                                                                                                                                                          |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2021-2023   | Physics Senior Thesis Research, Matthew Briley Capps, Physics<br>Title: <i>Determining the Distance to RRc Variable VZ Pegasi: Astrometric Measurement via the Period-Luminosity-Metallicity Relationship</i>                                                                                                                                            |
| Spring 2022 | Student Research Colloquium, Emma Wixom, Earth & Space Science Education<br>Title: <i>Science Fair Participation and Understanding of the Nature of Scientific Inquiry</i>                                                                                                                                                                               |
| 2019-2020   | Research Mentor, <i>Our Solar Siblings</i> variable star research course, Larson Pavey, Tyler Smith, Sam Wyss, Travis Kreager, Natalie Severeid, and Matthew Briley Capps<br>Students partnered to examine three RR Lyrae variable stars over the course of a two-week period, then analyzed results using Astrosource. Interrupted spring 2020 by COVID |
| Spring 2019 | Honors College Showcase Advisor, Kaelyn Hatcher, Elementary Education,<br>Title: <i>Teaching Astronomy to Early Education Students</i>                                                                                                                                                                                                                   |
| Spring 2018 | Honors College Capstone Advisor, Shelby Smiley, Chemistry<br>Title: <i>Evaluating the Benefits of a Chemistry Lab for Homeschool Teenagers in a University Setting</i>                                                                                                                                                                                   |

*University Supervision of Student Teachers* (Fort Wayne unless otherwise noted)

|             |                                                                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fall 2026   | Jaron Bobay, physics, Carmel High School, Carmel, IN<br>Saint Saye, middle grades science, Lake Middle School                                                                                              |
| Spring 2026 | Kennedy Peckinpugh, elementary & elementary STEM, Weisser Park Elementary                                                                                                                                  |
| Fall 2025   | Alexis Hatfield, elementary & elementary STEM, Washington STEM Academy, Warsaw, IN                                                                                                                         |
| Spring 2025 | Kelsey Monroe, elementary STEM, Irwin STEM Magnet<br>Anna Manry, elementary STEM, Weisser Park STEAM Magnet                                                                                                |
| Spring 2024 | Dayla Drayer, secondary mathematics and physics, Northrop High School<br>Eva Pocock, elementary, Saint Joseph Elementary                                                                                   |
| Spring 2022 | Brooke Messman, elementary, Holy Cross Lutheran School<br>Kelsey Gallagher, elementary, Robert C. Harris Elementary<br>Theo Thompson, elementary, Robert C. Harris Elementary                              |
| Fall 2021   | David Porter, physics and chemistry, Whitley City High School, Columbia City, IN                                                                                                                           |
| Fall 2018   | Sam Cook, physics, Wabash High School, Wabash, IN                                                                                                                                                          |
| Fall 2017   | Mason Frauhiger, secondary Earth and Space Science, New Haven High School<br>Julian May, secondary Earth and Space Science, Northrop High School<br>Dylan Gunder, Spanish, North Side High School          |
| Fall 2016   | Britten Friar, elementary, Haley Elementary<br>Kaitlyn Biere, elementary, Lafayette Meadows Elementary<br>Shelby Johnston, secondary Earth and Space Science, Huntington North High School, Huntington, IN |

Spring 2016      Lauren Vernasco, secondary 5-9 science and math, Maple Creek Middle School  
James DeFrain, secondary 5-9 science and math, St. Peter's Lutheran School  
Jordan Teeple, secondary 5-9 math and science, Blackhawk Christian School

## **PROFESSIONAL DEVELOPMENT**

### *Fellowships, Cohorts, and Workshops*

C4G | Community of Practice, 2025-2025  
Science Fair Director's Institute, Kansas City, September 14-18, 2025  
Building Indiana Computing Capacity for Preservice CS Education, 2025  
Indiana University CS Cohort, Spring 2025  
Indiana STEM Cadre, 2023-2025  
Purdue Community Partnerships Service-Learning Fellowship, Spring 2022  
PhysTEC Fellow, American Institute of Physics, 2017-2019

### *PFW CELT Certificates*

[Student-Centered Pedagogy and Classroom Engagement](#), 2023-2024  
[Teaching in the AI-Powered Age](#), 2023-2024

### *Professional Memberships and Organizations, current*

Association for Science Teacher Education, 2005 – 2011; 2014 – present  
American Society for Engineering Education, 2020 – present  
NARST, 2015 – present  
National Science Teachers Association, 2015-present  
ISTE-ASCD, 2024 – present  
School Science & Mathematics, 2009 present

### *Professional Memberships and Organizations, past*

ACM, 2024 – 2025  
American Association of Physics Teachers, 2004 – 2022  
Kappa Delta Pi, 2017 – 2023  
Mid-Atlantic Association for Science Teacher Education, 2010, 2015 – 2023  
PhysTEC, 2016 – 2020

## **HONORS AND LICENSURES**

President, Tennessee section of the American Association of Physics Teachers, 2013-2014  
2012 Outstanding High School Physics Teacher of the year,  
Tennessee section of the American Association of Physics Teachers  
State of Tennessee, Professional Teacher Licensure, Physics 7-12, 6 Year License, 2023-2029

## PUBLICATIONS

**Perkins Coppola, M.**, Kim, B., Parker, M., Wang, G., Bolinger, T. (2024). Examining the differences in three computing fields with high school students. SIGITE '24, El Paso, TX. <https://doi.org/10.1145/3686852.3687070>

**Perkins Coppola, M.**, Kim, B., Wang, G., Parker, M., Bolinger, T. (2024). Computing faculty introducing secondary students to differences in computing fields. Conference Proceedings of the 2024 ASEE. <https://doi.org/10.18260/1-2--46716>

Kim, B., **Perkins Coppola, M.**, Bolinger, T., Wang, G., Parker, M. (2022). Summer Computing Camp to Compare and Contrast CS/IT/CE Programs. SIGITE '22, Chicago, IL. <https://dl.acm.org/doi/10.1145/3537674.3555796>

**Perkins Coppola, M.** (2021). Learning through doing: preservice elementary teacher reflections on the engineering design process. Conference Proceedings of the 2021 ASEE.

Pavey, L., Smith, T., Wyss, S., & **Perkins Coppola, M.** (2021). Observations of U Leporis. *Astronomy Theory, Observations and Methods Journal*, 2(1).

**Perkins Coppola, M.P.** (2020). Talking and writing to learn: The physics of traffic intersection safety, part two. *The Hoosier Science Teacher*, 43(2).

**Perkins Coppola, M.P.** & Merz, A. (2020). Sailing into Engineering with Apple Boats. *Science & Children*, 57(9), 35-39.

**Perkins Coppola, M.P.** (2019). Preparing preservice elementary teachers to teach engineering: impact on self-efficacy and outcome expectancy. *School Science and Mathematics*, 119(3). 161-170.

**Perkins Coppola, M.P.** & Merz, A. (2019). Improving the quality of engineering design challenges. *Science & Children*, 56(6), 73-76.

**Perkins Coppola, M.P.** (2018). Talking and writing to learn: The physics of traffic intersection safety, part one. *The Hoosier Science Teacher*, 41(1). 6-20.

**Perkins Coppola, M.P.** & Merz, A. (2017). Optimizing your K-5 engineering challenge. *Science & Children*, 54(5), 74-79.

Lunsford, E, Melear, C.T., Roth, W.M, **Perkins, M.**, & Hickok, L. (2007). Proliferation of inscriptions and transformations among preservice teachers engaged in authentic science. *Journal of Research in Science Teaching*, 44(4), 538-564.

**Perkins, M.** & Pfaffman, J. (2006). Using a course management system to improve classroom communication. *The Science Teacher*, 73(7), 33-37.

### *Self-Published*

**Perkins Coppola, M.P.** (2021). Reinventing the science fair for the new normal. Retrieved from <https://medium.com/@perkinscoppola/reinventing-the-science-fair-for-the-new-normal-d80be9ace5ed>.

## **CONFERENCE PRESENTATIONS**

### *Research Conferences*

**Perkins Coppola, M.P.** & Hullinger, H. (2025, June 16). *Storytelling through Code*. Computer Science Professional Development Week 2025, Indiana University, Bloomington, IN.

**Perkins Coppola, M.P.** (2024, November 7). *Differentiating computing fields through a summer computing camp*. School Science and Mathematics Association Annual Convention, Knoxville, TN.

**Perkins Coppola, M.**, Kim, B., Parker, M., Wang, G., Bolinger, T. (2024). Examining the differences in three computing fields with high school students. SIGITE '24, El Paso, TX. <https://doi.org/10.1145/3686852.3687070>

**Perkins Coppola, M.**, Kim, B., Wang, G., Parker, M., Bolinger, T. (2024, June 24). Computing Faculty Introducing Secondary Students to Differences in Computing Fields. American Society for Engineering Education, Portland, OR.

**Perkins Coppola, M.** (2023). Field expectations for elementary methods. Mid-Atlantic Association for Science Teacher Education, Kingsport, TN.

**Perkins Coppola, M.P.** (2023) Using service-learning to prepare preservice elementary teachers to support scientific research in the elementary classroom. NARST, Chicago, IL.

**Perkins Coppola, M.P.** (2023). Early service-learning experiences in elementary STEM: Science and innovation fairs. Association for Science Teacher Education, Salt Lake City, UT.

**Perkins Coppola, M.P.** (2022). The importance of enactive mastery experiences: Teaching engineering self-efficacy in a pandemic. NARST, Virtual.

Nesmith, S., & **Perkins Coppola, M.P.** (2021). Viewing engineering through the lens of elementary science methods courses. School Science and Mathematics Association, Virtual.

**Perkins Coppola, M.** (2021). An interactive virtual science and engineering fair. Mid-Atlantic Association for Science Teacher Education, Blowing Rock, NC.

**Perkins Coppola, M.** (2021). Learning through doing: Preservice elementary teacher reflections on the engineering design process, American Society for Engineering Education, Virtual.

**Perkins Coppola, M.P.** (2021). Science fairs as service learning for preservice teachers. Association for Science Teacher Education, Virtual.

**Perkins Coppola, M.P.** (2021). Methods for Secondary Science Education Methods. Association for Science Teacher Education, Virtual.

**Perkins Coppola, M.P.** (2021). Physics teacher collaboration in pandemic times. Winter meeting of the American Association of Physics Teachers, Virtual.

- Perkins Coppola, M.** (2020). Science fair as field experience for preservice elementary teachers. Mid-Atlantic Association for Science Teacher Education, Virtual.  
<https://voicethread.com/myvoice/thread/15531177/97043670/89163223>
- Pavey, L., Smith, T., Wyss, S., & **Perkins Coppola, M.** (2020). Variations on U Leporis. Student Research and Creative Endeavor Symposium, Fort Wayne, IN. Cancelled due to COVID.
- Perkins Coppola, M.P.** (2020). Preservice elementary teacher reflections on teaching engineering design. Association for Science Teacher Education, San Antonio, TX.
- Perkins Coppola, M.P.,** Stewart, G., Duffy, A., & Greenman, M. (2019). Preparing teachers for AP Physics. PhysTEC Annual Conference, Boston, MA.
- Perkins Coppola, M.P. & Masters, M.** (2019). Applied Physics Workshops for student-teacher Teams. Summer meeting of the American Association of Physics Teachers, Provo, UT.
- Perkins Coppola, M.P.** (2019). Teaching engineering self-efficacy: a mini-unit approach in elementary science methods. National Association for Research in Science Teaching, Baltimore, MD.
- Perkins Coppola, M.P.** (2019). Mindset and sensemaking in courses for elementary education majors. Winter meeting of the American Association of Physics Teachers, Houston, TX.
- Perkins Coppola, M.P.** (2018). A review of epistemic practices of engineering in preservice elementary teacher lesson plans. Association for Science Teacher Education, Baltimore, MD.
- Perkins Coppola, M. & Hagevik, R.** (2017). Participation of inservice secondary teachers in a multi-year summer research experience. 12<sup>th</sup> annual meeting of the European Science Education Research Association, Dublin, Ireland.
- Perkins Coppola, M.P.** (2017). Engineering mini-units for preservice elementary teachers. Association for Science Teacher Education, Des Moines, IA.
- Perkins Coppola, M.** (2016) Engineering mini-units for preservice elementary teachers. Mid Atlantic Association for Science Teacher Education, Gatlinburg, TN.
- Perkins Coppola, M.P.** (2016). Connecting introductory astronomy with majors outside of the sciences. Winter meeting of the American Association of Physics Teachers, New Orleans, LA.
- Perkins, M.P.** (2011). Chair of SIG roundtable discussion: Teachers, scientists, partnerships, and teacher growth. American Education Research Association, New Orleans, LA.
- Perkins, M.P.** (2011). Citizen Science: Using Physics to Model Traffic Intersections. American Association of Physics Teachers, Jacksonville, FL.
- Perkins, M.P. & Hagevik, R.A.** (2011). Cross-case analysis of teachers' legitimate peripheral participation in long-term scientific research experiences. American Education Research Association, New Orleans, LA.

- Perkins, M.P.** & Hagevik, R.A. (2011). Influence of Multiyear Scientific Research Experiences for Teachers. Association for Science Teacher Education, Minneapolis, MN.
- Perkins, M.**, (2010). Shock-induced pressure waves generated by atomic displacement cascades. Department of Energy Academies Creating Teacher Scientists annual poster session. Oak Ridge National Laboratory, Oak Ridge, TN.
- Perkins, M.** (2010). Legitimate peripheral participation of secondary educators in scientific research experiences: Implications for teachers' understanding of the nature of science and classroom teaching. University of Tennessee Graduate Student Research Colloquium, Knoxville, TN.
- Perkins, M.** (2010). Traffic cameras – a citizen science approach. Mid Atlantic Association for Science Teacher Education, Johnson City, TN.
- Perkins, M.** (2009). A Study of Teachers Participating in Multiple Authentic Scientific Research Experiences. Mid Atlantic Association for Science Teacher Education, Portsmouth, OH.
- Perkins, M.** (2009). Teachers as scientists: What science teachers gain by conducting scientific research. University of Tennessee Graduate Student Research Colloquium, Knoxville, TN.
- Perkins, M.P.**, Melear, C.T. (2008). Impact of laboratory research on inservice teachers' understanding of the nature of science. Association for Science Teacher Education, St. Louis, MO.
- Melear, C.T., **Perkins, M.P.** (2007). Bridges: Engineering better science teachers through collaboration between engineering and education faculty with urban schools. Association for Science Teacher Education, Clearwater, FL.
- Melear, C.T., **Perkins, M.P.**, Wentworth, A. (2006). Preparing preservice science teachers for the urban classroom using community-based field experiences. American Educational Research Association, San Francisco, CA.
- Melear, C.T., Suters, L., **Perkins, M.** (2005). Community and urban field experiences before placement in diverse high schools for the year-long internship in science teaching. Association of Educators of Science Teachers, Colorado Springs, CO.
- Lunsford, E., Melear, C., **Perkins, M.** (2005). Bringing scientific inscriptions into the classroom. Southeastern Region of the Association for Science Teacher Education, Athens, GA.

#### *Practitioner Presentations*

- Perkins Coppola, M.P.** (2021). How Far is that Star? Various Variables Pulsating Regularly. *Friday Night at the Observatory*, Department of Physics, Purdue University Fort Wayne.
- Perkins Coppola, M.P.** & Merz, A. (2020) Elementary Extravaganza. National Science Teachers Association, Boston, MA. Cancelled due to COVID.
- Perkins Coppola, M.** (2019). Learning & teaching in physics: training TA's, LA's, and tutors. Alliance for Teaching Excellence, Fort Wayne, IN.

- Perkins Coppola, M.** (2019). Improving communication: Integrating Google Voice into practice. Ignite Talk. Alliance for Teaching Excellence, Fort Wayne, IN.
- Perkins Coppola, M.,** Parnin, S., Sirk, J.W., & Underwood, M. (2018). Reimagining classroom space with Solstice and whiteboards. Alliance for Teaching Excellence, Fort Wayne, IN.
- Perkins Coppola, M. & Parnin, S.** (2018). Variations in microteaching: Team-teaching approach to elementary science methods. 19th Annual Midwest Scholarship of Teaching and Learning Conference, South Bend, IN.
- Perkins Coppola, M.P.** Clegg, J. (2017). *Caring for K-12 in Fort Wayne*. University Community Conversation: UC<sup>2</sup>, Indiana University-Purdue University Fort Wayne, Fort Wayne, IN.
- Perkins Coppola, M.P.** (2016). ASTE-Sponsored Session: Citizen Science: Argumentation and Modeling Safe Traffic Intersections. National Science Teachers Association Columbus Area Conference, Columbus, OH.
- Perkins Coppola, M.P.** (2016). *Pluto and the Planets*. Engage with an IPFW Scientist, Science Central, Fort Wayne, IN.
- Perkins Coppola, M.,** Gerig, S., de Fluiter, C., & Lundquist, P. (2016) Engineering in the elementary school classroom. Hoosier Association of Science Teachers, Inc. Indianapolis, IN.
- Perkins Coppola, M. & Vernasco, L.** (2016) Argumentative writing and citizen science in high school physics. Hoosier Association of Science Teachers, Inc. Indianapolis, IN.
- Perkins, M.** (2014). Adjusting teaching methods for the Next Generation Science Standards. Tennessee section of the American Association of Physics Teachers, Oak Ridge, TN.
- Perkins, M.,** Goepfert, K. (2012). A citizen science approach for investigating the safety of traffic intersections and the need for red light cameras. Tennessee Science Teachers Association, Murfreesboro, TN.
- Perkins, M.** (2012). Engineering design through FIRST robotics. Tennessee section of the American Association of Physics Teachers, Cookeville, TN.
- Perkins, M.** (2009). Phases of the moon and Venus. Southeastern Planetarium Association, Nashville, TN.
- Perkins, M.** (2009). Evolving standards in secondary physics. Tennessee section of the American Association of Physics Teachers, Oak Ridge, TN.
- Perkins, M.,** Pfaffman, J. (2004). Moodle: Web presence and parent communication the easy way. Tennessee Education Technology Conference, Nashville, TN.
- Melear, C.T., **Perkins, M.P.** (2004). Ossabaw Island for teacher educators and science teachers and their students. National Science Teachers Association, Atlanta, GA.
- Melear, C.T., **Perkins, M.P.** (2003). Inscriptions in laboratory notebooks as authentic assessment of inquiry using a rubric. Tennessee Science Teachers Association, Franklin, TN.

**Perkins, M.,** Bowers, D. (2003). Introduction to the hands-on universe. North Carolina Science Teachers Association, Greensboro, NC.

**Perkins. M.,** Oxendine, S. (2003). Adventures in aeronautics. North Carolina Science Teachers Association, Greensboro, NC.

**Perkins, M.** (2001). "Designing and implementing an internet astronomy course for high school students." Southeastern Planetarium Association, Richmond, KY.

## **UNIVERSITY GRANTS**

### *External*

- 2026 National Science Foundation (\$146,409; pending)
- 2023 STEM Educator Preparation Program Integrated STEM Mini-Grant (\$1000)
- 2022 Indiana Youth Programs on Campus, Sub-recipient co-PI, Lilly Endowment, Inc.  
2022-2025, (\$149,981)
- 2019 Project Lead the Way (\$4,500)
- 2017 William F. and Edith R. Meggers Project Award of the American Institute of Physics  
(\$24,804.63)

### *Internal*

- 2025 Brightspace Collaborative Grant (\$12,000; awarded)
- 2022 Collaborative Research Grant (\$14,988.72)
- 2019 Summer Research Grant (\$8,000)
- 2017 Summer Research Grant (\$8,000)
- 2016 Department of Educational Studies (\$549.91)

### *Not Funded*

- 2025 National Science Foundation IUSE, co-PI (\$291,477)
- 2024 National Science Foundation IUSE, co-PI (\$291,477)
- 2019 A Flexible, Modular Approach for Qualifying Computer Science Educators to Teach  
Dual-Credit Courses (FlexCStoDC), National Science Foundation, (\$290,657)
- 2017 Robert Noyce Teacher Scholarship Program, National Science Foundation, (\$74,985)

## **SERVICE**

### *University Service*

- Member,** Senate Curriculum Subcommittee, 2026-??
- Member,** Campus Promotion & Tenure committee, 2026-2029
- Member,** PFW HLC Student Success Academy, 2024-present
- Member,** University Senate, PFW, 2021-2024; 2025-2026
- Chair,** Senate Student Affairs Committee, spring 2025-spring 2026, **member** 2023-2026

### *School & Department Service*

**Coordinator, Secondary Education**, Teacher Education, 2022-2023 and 2024-present  
**Coordinator and Founder, Elementary STEM Dual Licensure**, Teacher Education, 2021-present  
**Chair** or Co-Chair, Academic Affairs committee, School of Education, PFW, 2016 – 2022, 2024-present  
**Search Committee Member** (Field Experience coordinator), PFW, 2026  
**Chair**, Faculty Affairs committee, School of Education, PFW, 2022-2023  
**Member**, Committee on General Studies, PFW, 2020-2023  
**Search Committee Member** (Chair, Teacher Education), IPFW, 2015-2016  
**Member**, Neff Hall 233 Facility Renovations Committee, April 2018-2020  
**Member**, School of Education Student Evaluation Taskforce, 2019-2020  
**Administrator**, [ATLAS](#), October 2020-2026  
**Member**, Student Affairs Committee, Department of Educational Studies, Indiana University-Purdue University Fort Wayne (IPFW), 2015-2016

### *National Service*

**Member**, Membership Committee, Association for Science Teacher Education (ASTE), 2021-2024  
Program proposal **reviewer**, ASTE, Thread 4: Preservice science teacher preparation, 2016-present  
Program proposal **reviewer**, NARST, Strand 7: Pre-service Science Teacher Education, 2017-present  
Program proposal **reviewer**, ASEE, PCEE, 2021-2025

### *Editorial Service*

Section Editor, *Electronic Journal for Research in Science & Mathematics Education*, 2021-2028  
Invited Reviewer, *Journal of Engineering Education*, 2019-2023  
Reviewer, *School Science and Mathematics*, 2018-2023  
Reviewer, *Innovations in Science Education Journal*, 2017-present  
Reviewer, *The Physics Teacher*, 2016-2019  
Reviewer, *The Hoosier Science Teacher*, 2016-19

### *Community Engagement*

**Director**, [Northeast Indiana Regional Science and Engineering Fair](#) (NEIRSEF)  
Office of Academic Affairs, University Research and Innovation, PFW, October 2016 – July 2026  
  
The Regional fair serves a 22 county region and advances students to the state-level [Hoosier Science and Engineering Fair](#), an [ISEF](#) qualifier. Responsibilities included planning, fundraising, and communicating with sponsors, university faculty, K-12 teachers, principals, parents, and students.  
  
**Chair**, IRB and SRC review, NEIRSEF, 2019-2022, 2024  
**Program Director**, [PFW Summer Computing Camp](#), July 2023, 2024, 2025  
**Co-founder**, Physics Teacher Advisory Group (TAG), 2017-present  
**Instructor**, PFW Physics Camp, 2016-2018; 2023-2024

**Judge**, Future City, Purdue University Fort Wayne, 2023, 2025

**Director**, Irwin Mars STEM Camp, Irwin Elementary School, Summer 2022

**Co-Director**, Applied Physics Workshop for teachers and students, Summer 2018

**Judge**, Core Values, First LEGO League, Purdue University Fort Wayne, 2016-present

**Volunteer**, Operation Science Theatre, Fort Wayne Civic Theatre, Science demonstrations for veterans and their families attending the FW Civic Theatre's annual Veteran's Day musical. Cancelled in 2020 due to COVID-19, 2016-2019

**Judge**, Mars Ozobot competition, DeKalb Community High School, 2018-19

**Session leader**, Holland Elementary School Campus Visit, PFW, April 13, 2018

**Judge**, Irwin Elementary Science Fair, Irwin Elementary School, 2018-present

**Judge**, Woodside Middle School Science Fair, 2016-20

**Participant**, Professors in Partnership Program, School of Education, New Haven MS and Maple Creek MS, 2018-19

**Volunteer**, Real Men Read Big Brothers Big Sisters Reading to 3<sup>rd</sup> grade students at Cedarville Elementary, 2015-17