

MARC C. PEDERSEN

EDUCATION

Education Specialist, Teacher Leadership, Piedmont College, 2011

Master of Science, Biology, University of Wisconsin-Milwaukee, 2004

Chancellor's Graduate Student Fellowship Award / James D. Anthony Scholarship Chancellor's List 2004-2005 / Teaching Fellowship (2002-2005)

Bachelor of Science, Science Education (biology and chemistry), Indiana University, 2000

Undergraduate Teaching Internship Award / Founders Day Award / Phi Eta Sigma National Honor Society / Alpha Lambda Delta Academic Society / National Dean's List 2000 / USAA All-American Scholar / Outstanding Future Educator Award Finalist

TEACHING POSITIONS

2005-Present Certified Teacher, Paulding County High School, Paulding County School District (biology, biotechnology, AP chemistry, environmental science, AP physics)

2002-2005 Teaching Fellowship, Department of Biological Sciences, University of Wisconsin-Milwaukee (102 Elements of Biology)

TEACHING CERTIFICATIONS

- Broad Field Science Certificate (certified in all science fields)
- Gifted Endorsement
- AP Physics 1
- AP Biology
- AP Environmental Science
- AP Chemistry

BIOTECHNOLOGY PUBLICATIONS (peer-reviewed)

Pedersen, M.C., Dunn, P.O., & Whittingham, L.A. 2006. *Extraterritorial forays are related to a male ornamental trait in the common yellowthroat*. *Animal Behaviour*, 72, 479-486. [pdf](#)

Garvin, J.C., Abroe, B., **Pedersen, M.C.**, Dunn, P.O., & Whittingham, L.A. 2006. *Immune response of nestling warblers varies with extra-pair paternity and temperature*. *Molecular Ecology*, 15, 3833-3840. [pdf](#)

Abroe, B., Garvin, J.C., **Pedersen, M.C.**, Dunn, P.O., & Whittingham, L.A. 2007. *Brood sex ratios are related to male size, but not attractiveness in the common yellowthroat*. *Auk*, 124, no 1, 176-184. [pdf](#)

PUBLICATIONS (non-refereed)

Pedersen, M., 2016. *Detection and Monitoring of Threatened Mussel Species: An Environmental DNA (eDNA) Approach*. eObservations, Georgia Science Teachers Association, September 2016.

Pedersen, M., 2015. *Biotechnology at Paulding County High School: A Success Story*. *Your Future in Healthcare*, Sept 2015, no 5, 10-11. [pdf](#)

AWARDED RESEARCH & EDUCATION GRANTS

1) The American Ornithologists' Union Student Research Award; 2) The Wilson Ornithological Society Paul A. Stewart Award; 3) The Wisconsin Society for Ornithology; 4) The Animal Behavior Society; 5) Carroll EMC Bright Ideas Grant; 6) Georgia Foundation for Public Education Grant; 7) Gale Samuels Award (Georgia Teachers of the Year Association); 8) 2015 STEM Forum Grant; 9) Carroll EMC Bright Ideas Grant (2016); 10) Georgia Science Teachers Association Grant (2016); 11) Presidential Award in Science Grant (2016); 12) 2016 Georgia STEM Forum Grant; 13) Jane Goodall's Roots and Shoots Grant; 9) Carroll EMC Bright Ideas Grant (2017); 10) Paulding Education Foundation Classroom Grant (2019); 11) Carroll EMC Bright Ideas Grant (2019); 12). Carroll EMC Bright Ideas Grant (2022); 13). Georgia Science Teachers Association Grant (2022)

PROFESSIONAL PRESENTATIONS (2013-Present)

- **Pedersen, M.** (February 2022) *Implementing eDNA Techniques in the classroom*. Georgia Science Teachers Association: Peachtree City, GA.
- **Pedersen, M.** (February 2019) *Biotechnology Research in High School*. Georgia Science Teachers Association: Columbus, GA.
- **Pedersen, M.** (November 2018) *Clonality Research of Orange Cup Coral*. Featured Speaker at the State Superintendent's Teacher Advisory Council; Georgia Aquarium; Atlanta, GA
- **Pedersen, M.** (February 2018) *Starting Biotechnology Research Programs*. Georgia Science Teachers Association: Columbus, GA.
- **Pedersen, M.** (October 2017) *Building and Sustaining a Research Program*. Georgia STEM Forum Conference, Athens, GA.
- **Pedersen, M.** (October 2017) *How to Build Partnerships in STEM Education*. Georgia STEM Forum Conference, Athens, GA.
- **Pedersen, M.,** (September 2017). *Cultivating a High School Biotech Program*. Georgia BioEd Institute: Fall Webinar Series, GA.
- **Pedersen, M.,** (June 2017). *Using the 3D Learning Approach to Engage Students*. Cobb County Schools: STEMapalooza, Kennesaw, GA.
- **Pedersen, M.,** (February 2017). *Environmental DNA (eDNA) Technology in the Classroom*. Georgia Science Teachers Association: Georgia Science: Engage!, Stone Mountain, GA.
- **Pedersen, M.,** (February 2017). *Project-based Learning: Ideas, Successes, and Failures*. Georgia Science Teachers Association: Georgia Science: Engage!, Stone Mountain, GA.
- **Pedersen, M.,** Bethel, C., Rose, J., Standeven, J. (February 2017). *Biotech Share-a-thon*. Georgia Science Teachers Association: Georgia Science: Engage!, Stone Mountain, GA.
- **Pedersen, M.,** Peacock, J. (January 2017) *Georgia Science Standards of Excellence- Promoting Innovative Practices in the classroom*. State Board of Education Presentation, Atlanta, GA.
- **Pedersen, M.** (December 2016) *Panel Discussion- Governor Nathan Deal's Teacher Advisory Council*. Georgia Association of Educational Leaders Annual Conference, Atlanta, GA.
- **Pedersen, M.** (November 2016) *Governor's Teacher Advisory Council*. Georgia Teacher of the Year 45th Anniversary Conference, Buford, GA.
- **Pedersen, M.** (October 2016) *How Teachers Can Implement Environmental DNA (eDNA) Technology in the Classroom*. Georgia STEM Forum Conference, Athens, GA.
- **Pedersen, M.,** Bethel, C., Rose, J. (October 2016) *Simple and Easy Biotech for STEM Classrooms*. Georgia STEM Forum Conference, Athens, GA.
- **Pedersen, M.,** Pedersen, T., TaiSee, M., Stott, K., Swena, J. (October 2016) *Developing and Implementing Project-based Learning in the Classroom*. Georgia STEM Forum Conference, Athens, GA.
- **Pedersen, M.** (August 2016) *Keynote Speaker- How Can We Nurture and Support New Teachers?* P-20 Regional Collaborative Conference: Coaching Teachers along the Career Continuum, Rome, GA.

- **Pedersen, M.** (July 2016) *Innovative Teaching Strategies for Advanced Placement Biology*. Northwest Georgia Mathematics and Science Partnership, Kennesaw State University, Kennesaw, GA
- **Pedersen, M., Pedersen, T.** (June 2016) *Bridging the Gap Between the Classroom and STEM-based Careers*. STEM-2-Career Conference, Mathematics and Science Partnership (Northwest RESA), Rome, GA.
- **Pedersen, M.** (February 2016). *Building Partnerships to STEM the Gap*. Georgia Science Teachers Association: Speaking Up For Science Conference, Stone Mountain, GA.
- **Pedersen, M.** (February 2016). *Revolutionizing Labs for STEM*. Georgia Science Teachers Association: Speaking Up For Science Conference, Stone Mountain, GA.
- **Pedersen, M.** (October 2015). *Biotechnology in the Classroom: A Project-based Approach*. Georgia STEM Forum, Athens, GA.
- **Pedersen, M.** (August 2015). *Creating a Culture of High Expectations*. Paulding County School District: New Teacher Induction Program, Dallas, GA.
- **Pedersen, M.** (May 2015). *Gale Samuels Award: Biotechnology in the Classroom*. Georgia Teacher of the Year Conference, Atlanta, GA.
- **Pedersen, M.** (February 2015). *How to Revolutionize Science Labs*. Georgia Science Teachers Association: Science for All Conference, Macon, GA.
- **Pedersen, M.** (February 2015). *A Study of the Clonality of a Marine Polychaete Using Randomly Amplified Polymorphic DNA*. Georgia Science Teachers Association: Science for All Conference, Macon, GA.
- **Pedersen, M., Dias, M., & Gibson, K.** (February 2015). *Watershed Conservation Curriculum*. Georgia Science Teachers Association: Science for All Conference, Macon, GA.
- **Pedersen, M.** (June 2014). *Rigor in the Science Classroom*. STEM-2-Core Conference, Mathematics and Science Partnership (GA Northwest RESA), Cartersville, GA.
- **Pedersen, M.** (May 2014). *Promising Practices: An Inquiry-Based Lesson*. Georgia Teacher of the Year Conference, College Park, GA.
- **Pedersen, M.** (December 2014). *Standards-Based Classrooms*. Paulding County School District: New Teacher Induction Program, Dallas, GA.
- **Pedersen, M.** (October 2014). *Classroom Management Strategies*. Paulding County School District: New Teacher Induction Program, Dallas, GA.
- **Pedersen, M. & Bryant, B.** (December 2013). *Effective Co-Teaching Strategies in Math and Science*. Paulding County School District: New Teacher Induction Program, Dallas, GA.
- **Pedersen, M.** (September 2013). *The Three-Part Lesson Framework*. Paulding County School District: New Teacher Induction Program, Dallas, GA.
- **Pedersen, M.** (July 2013). *Coral Invades the Classroom: A Project-Based Lesson*. Southern Regional Education Board: High Schools That Work Conference, Charlotte, NC.
- **Pedersen, M., Davis, R., Leonard, H., Ali, S. & TaiSee, M.** (July 2013). *The Cure for What Ails Students: The Academy of Science, Research and Medicine*. Southern Regional Education Board: High Schools That Work Conference, Charlotte, NC.

HONORS AND AWARDS

- 2021 Professional Association of Georgia Educators STAR Teacher Award
- 2020 Professional Association of Georgia Educators STAR Teacher Award
- 2020 MIT Teacher of Influence
- 2019 Georgia Teachers of the Year Association (President 2017-2019)
- 2019 Professional Association of Georgia Educators STAR Teacher Award
- 2017 Yale Educator Award
- 2017 Georgia Science Teacher of the Year (Georgia Science Teachers Association)
- 2017 Georgia Biotechnology Teacher of the Year (Georgia Bio Institute)
- 2017 Presidential Award of Excellence in Science Teaching (State Applicant Reviewer)
- 2017-2019 President Georgia Teachers of the Year Association

- 2017 Governor Deal’s “Real Teachers Real Voices” Campaign Public Service Announcement ([click here](#))
- 2016 Claes Nobel Top Ten National Educator of the Year (National Society of High School Scholars)
- 2016 BioGENEius Mentor National Awardee (Biotechnology Institute; Washington, D.C.)
- 2016 Technology Association of Georgia STEM Program Award Finalist
- 2016 Governor Nathan Deal’s Teacher Advisory Committee
- 2016 President-elect Georgia Teachers of the Year Association
- 2016 Global Teacher Prize Nominee (GA Department of Education)
- 2016 Professional Association of Georgia Educators STAR Teacher Award
- 2015 Presidential Award of Excellence in Science Teaching (White House; National Science Foundation)
- 2015 Claes Nobel Educator of Distinction (National Society of High School Scholars)
- 2015 Presidential Award of Excellence in Science Teaching State Finalist
- 2015 Georgia Teacher of the Year Finalist
- 2014 Paulding County School District Teacher of the Year
- 2013 Paulding County High School Teacher of the Year
- 2013-2017 Georgia Superintendent’s Teacher Advisory Council
- 2004 Outstanding Future Educator Award Finalist (Indiana Association of Colleges for Teacher Education)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Association of Presidential Awardees in Science Teaching
- Georgia BioEd Institute Teacher Advisory Council
- Georgia Superintendent’s Teacher Advisory Council
- Governor Nathan Deal’s Teacher Advisory Committee
- International Technology and Engineering Educators Association
- Georgia Science Teachers Association (Region 1 Director 2017-2019)
- Basin Area Council- Metropolitan North Georgia Water Planning District
- National Science Teachers Association
- Georgia Teachers of the Year Association (President 2017-2019)
- National Network of State Teachers of the Year
- Professional Association of Georgia Educators
- Paulding Education Foundation (planning committee)
- Woodrow Wilson National Fellowship Foundation Teacher Mentor
- National Speleological Society
- Student Conservation Association Alumni
- Association of Field Ornithologists

PROFESSIONAL LEARNING (2016-2022)

- Rural Teacher Training Initiative Biotechnology Master Instructor (2021-2022)
- Georgia Science Teachers Association Conference, Peachtree City, GA (2022)
- Rural Teacher Training Initiative Biotechnology Master Instructor (2020)
- STEAM Leadership Conference at Georgia Tech (2021)
- Georgia Science Teachers Association Conference, Columbus, GA (February 2019)
- UCB Pharmaceuticals Biotech Teacher Immersion Program Director (June 2019)
- UCB Pharmaceuticals Biotech Teacher Immersion Program Director (June 2018)
- UCB Pharmaceuticals Teacher Immersion Program Designer (7 weeks; June-July 2017)
- Cobb County Schools STEMapalooza (June 2017)
- Georgia Association of Educational Leaders Annual Conference, Atlanta, GA (December 2016)

- Georgia Teachers of the Year Promising Practices Conference, Gainesville, GA (November 2016)
- Fifth Annual STEM Education Awards Convention, Atlanta, GA (November 2016)
- Georgia STEM Forum, Athens, GA (October 2016)
- Next Generation STEM High School Forum, Washington, D.C. (September 2016)
- Symposium on Active Learning in STEM Education, Washington, D.C. (September 2016)
- Georgia Bio Innovation Summit, Atlanta, GA (September 2016)
- P-20 Regional Collaborative Conference: Coaching Teachers along the Career Continuum (August 2016)
- Biotechnology Innovation Organization International Convention, San Francisco, CA (June 2016)
- Mathematics and Science Partnership STEM-2-Career Expert Cohort, Cartersville, GA (June 2016)
- Georgia Science Teachers Association-Speaking Up For Science Conference, Atlanta, GA (February 2016)

EDUCATIONAL COMMITTEES/BOARDS

- 2022 Presidential Award of Excellence in Science Mentor
- 2016-2022 Georgia Teacher of the Year Promising Practices Committee
- 2019-2022 Newton College and Career Academy Healthcare Science Advisory
- 2016-2022 Georgia Teacher of the Year Conference Committee
- 2016-2022 Georgia Teacher of the Year Application Reviewer
- 2016-2022 Presidential Award of Excellence in Science State Reviewer
- 2021-2022 Georgia Department of Education Science Advisory Council
- 2021 National Science Association Rice Noyce Research Study Participant
- 2016-2020 Georgia Superintendent's Teacher Advisory Council
- 2020 National Science Foundation Advisory Board (Frisk University)
- 2018-2020 Georgia Science Teachers District 1 Director
- 2018-2019 Governor's Honors Program State Interviewer
- 2017 Governor Deal's "Real Teachers Real Voices" Campaign Public Service Announcement

PROFESSIONAL BIOLOGICAL EXPERIENCE

- Federal Master Bird Bander (2021-present; Paulding, GA)
- Molecular/Behavioral Ecologist (University Wisconsin-Milwaukee, WI)
- Avian Field Technician (University of Illinois, IL)
- Wildlife Biologist (Kalamazoo Research Center, MI)
- Avian Conservation Assistant (Nature Conservancy of Hawaii/Hawaii Department Natural Resources, HI)
- Missouri Ozark Forest Ecosystem Project Technician (University of Missouri, MO)
- Wildlife Biologist (United States Fish & Wildlife Service, OR)

Click below for awardee profile and information:

[2015 Presidential Award of Excellence in Mathematics and Science Teaching](#) (National Science Foundation)

[2017 Governor Deal's "Real Teachers Real Voices" Campaign Public Service Announcement](#)

[2017 National Recognition for Classroom Practices- EdSurge](#)

[2019 AP Physics and Chemistry Instructional Videos and Podcasts \(YouTube\)](#)