

# 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

## SCIENCE 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)

## EDUCATION PRESENTATIONS (2013-Present)

- **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: STEMpalooza, 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 45<sup>th</sup> 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**

- 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

## **PROFESSIONAL LEARNING (2016-2017)**

- UCB Pharmaceuticals Biotech Teacher Immersion Program Director (June 2018)
- UCB Pharmaceuticals Teacher Immersion Program Designer (7 weeks; June-July 2017)
- Cobb County Schools STEMpalooza (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)

## **PROFESSIONAL BIOLOGICAL EXPERIENCE**

- 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](#)