

**Dr. Peter J. T. White**  
Associate Professor  
Department of Entomology  
Michigan State University  
East Lansing, 48825, MI, USA  
pwhite@msu.edu

## *Curriculum Vitae*

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### **ACADEMIC POSITIONS:**

Associate Professor (2024-current)

Department of Entomology, Michigan State University.

Associate Professor (2020-2024)

Lyman Briggs College and the Department of Entomology, Michigan State University.

Assistant Professor (2014-2020)

Lyman Briggs College and the Department of Entomology, Michigan State University.

Instructor (2013-2014)

Lyman Briggs College, Michigan State University.

Research Associate and Postdoctoral Research Scholar in Evolution Education (2011-2013)

Lyman Briggs College, Michigan State University.

### **EDUCATION**

Ph. D. Biology (2011). McGill University.

M. Sc. Biology (2005). University of Ottawa.

B. Sc. Hons. Biology (2003). University of Ottawa.

### **PEER-REVIEWED PUBLICATIONS**

Author Ordering: 1<sup>st</sup> author is primary, when >2 authors, last author is supervising/senior

1. Brown, C. and White, P. J. T. (*under review*) Assessing the performance of a 3D printed Pennsylvania-style black light moth trap. *Journal of the Lepidopterists' Society*.
2. White, P. J. T., and Dutta, T. (*under review*) Global Warning: a board game that changes student thinking on how to combat climate change. *Simulation & Gaming*.
3. Keas, B., Brown, B., Stroupe, D., Best, S., LeTarte M., and White P. J. T. (2024) Conducting authentic moth research with students to encourage scientific inquiry. *Science Scope* 47(4), 56-62.
4. Filice, D. A., Riedy, J. J., Heidemann, M. H., Smith, J. S., and White, P. J. T. (2023) Evaluating introductory biology student perceptions surrounding the use of integrative cases related to human health for evolution education. *Evolution: Education and Outreach* 16 (1): 6.
5. Ellis, R., Reichsman, F., Mead., L., Smith, J., McElroy-Brown, K., and White, P. J. T. (2023) Applying an integrative and technology-enhanced approach to the teaching and learning of evolution in Mendel's peas. *American Biology Teacher* 85: 97-103.

6. Wonderlin, N. E., Lorenz, A.R., and White, P. J. T. (2022). Habitats of urban moths: Engaging elementary school students in the scientific process. *American Biology Teacher* 84: 284-289.
7. White, P. J. T., Masani, S., Shuster, S., and Wonderlin, N. (2021) Ditch Gendered Terminology for Cell Division. *Nature* 588: 556. (Nature correspondence)
8. Ellis, R., Reichsman, F., Mead., L., Smith, J., McElroy-Brown, K., and White, P. J. T. (2021) ConnectedBio: An integrative and technology-enhanced approach to evolution education for high school. *American Biology Teacher*: 83.6: 362-371.
9. Rumpfelt, K.A., Wonderlin, N.E., Hulbert, D., and White, P. J. T. (2020) From DNA extraction to sequence analysis: A semester-long undergraduate research project on fish mislabeling. *American Biology Teacher*: 82.3: 170-175.
10. Wonderlin, N.E., Rumpfelt, K.A., and White, P. J. T. (2019) Associations between nocturnal moths and pollen in urban gardens. *Journal of the Lepidopterists' Society* 73.3: 173-176.
11. Bonner, K., Piechnik, D., Kovacs, J., Warwick, A., and White, P. J. T. (2019) Clam spawning and Red Tide: A classroom activity that helps students learn Hardy-Weinberg equilibrium and evolution. *American Biology Teacher* 81: 366-371.
12. Kirby, C., Fleming-Davis, A., and White, P. J. T. (2019) The Figure of the Day: A classroom activity to improve students' figure creation skills in biology. *American Biology Teacher* 81: 317-325
13. Stroupe, D., Caballero, D., and White, P. J. T. (2018) Fostering students' epistemic agency through the co-configuration of moth research. *Science Education* 102: 1176-1200.
14. White, P. J. T. (2018) An aerial approach to investigating the relationships between macromoths and nighttime lights across an urban landscape. *Journal of Agriculture and Urban Entomology* 34: 1-14.
15. Wilson, P., White, P. J. T., Smith, K., and Kelly, T. (2017) Team teaching as an agent for change. *Discussions on University Science Teaching: Proceedings of the 2017 Western Conference on Science Education*
16. Wonderlin, N.E., Ross, L.R. and White, P. J. T. (2017) Construction and performance of a novel capture-mark-release moth trap. *Great Lakes Entomologist* 50: 27-32.
17. White, P. J. T., Glover, K., Stewart, J. and Rice, A. (2016) The technical and performance characteristics of a low-cost, simply-constructed, black light moth trap. *Journal of Insect Science* 16: 1-9.
18. White, P. J. T. (2016) Molecular sculpting: Active learning of subcellular systems and processes. *American Biology Teacher* 78: 482-491.
19. Rice, A. J. and White, P. J. T. (2015) Community patterns in urban moth assemblages. *Journal of the Lepidopterists' Society* 69: 149-156.

20. White, P. J. T., Heidemann, M. and Smith, J. (2015) A cross-course investigation of integrative cases for evolution education. *Journal of Microbiology & Biology Education* 16: 157-166.
21. White, P. J. T. (2013) Testing two methods that relate herbivorous insects to host plants. *Journal of Insect Science* 13 (92): 1-22.
22. White, P. J. T., Heidemann, M. and Smith, J. (2013) A new approach to evolution education. *BioScience* 63: 586-594.
23. White, P. J. T., Heidemann, M., Loh, M. and Smith, J. (2013) Integrative cases for teaching evolution. *Evolution: Education and Outreach* 6: (17).
24. White, P. J. T., McGill, B. and Lechowicz, M. J. (2012) Detecting changes in forest floor habitat after canopy disturbance. *Ecological Research* 27: 397-406.
25. White, P. J. T., Syncox, D., Heppleston, A., Isaac, S. and Alters, B. (2012) Putting research into practice: pedagogy development workshops change the teaching philosophy of graduate students. *Canadian Journal of Higher Education* 42: 98-111.
26. White, P. J. T., McGill, B. and Lechowicz, M. J. (2011) Human disturbance and caterpillars in managed forest fragments. *Biodiversity and Conservation* 20: 1745-1762.
27. White, P. J. T., Delaney, D. G., Syncox, D., AvilaAkerberg, O. and Alters, B. (2011) Clicker implementation models. *EDUCAUSE Quarterly* 34(4).
28. White, P. J. T., Syncox, D. and Alters, B. (2011) Clicking for grades? Really? Investigating the use of clickers for awarding grade-points in post-secondary education institutions. *Interactive Learning Environments* 19: 551-561.
29. White, P. J. T. and Kerr, J. T. (2007) Human impacts on environment-diversity relationships: evidence for biotic homogenization from butterfly species richness patterns. *Global Ecology and Biogeography* 16: 290-299.
30. White, P. J. T. and Houlahan, J. (2007) The relationship between native and non-native species differs among taxa in Canadian national parks. *Ecoscience* 14: 195-204.
31. White, P. J. T. and Kerr, J. T. (2006) Contrasting spatial and temporal global change impacts on butterfly species richness during the 20<sup>th</sup> century. *Ecography* 29:908-918.

## GRANTS AND FUNDING

### External Grants

1. National Science Foundation, (2021-2025) DRK12 program. White, P. J. T. (PI), Reichsman F. (co-PI), Stroup, D. (co-PI), Dorsey, C. (co-PI). MothEd – Authentic science for elementary and middle schools. Total Value: \$2,413,506.
2. National Science Foundation, (2020-2022) IUSE program. White, P. J. T. (PI), Smith, J.J. (co-PI), Heidemann, M. H. (co-PI). Evo-Med-Ed: An integrative approach for teaching and learning human evolution in undergraduate biology. Total Value: \$299,847.

3. National Science Foundation, (2017) DRK12 program, *supplemental award*. White, P. J. T. (PI), Mead, L. (co-PI). Collaborative Research: Connected Biology: three-dimensional learning from molecules to populations. Total Value: \$47,380.
4. National Science Foundation, (2016-2020) DRK12 program. White, P. J. T. (PI), Mead, L. (co-PI). Collaborative Research: Connected Biology: three-dimensional learning from molecules to populations. Total Value: \$1,240,501

### **Internal Seed Grants and Fellowships**

1. Mentor for the Scholarship of Undergraduate Teaching and Learning Fellowship Program
  - a) (2023-24) Using board games for learning in introductory biology.
  - b) (2021-22) Evo-Med-Ed: Cases for undergraduate evolutionary medicine education
  - c) (2017-18) Figure of the Day: an activity to improve student quantitative graphing skills
  - d) (2016-17) Changes in undergraduate understanding of biology over time
2. Science Studies at State
  - a) (2019-20), White, P. J. T. (PI), Stroupe, D. (co-PI), Lorenz-Reaves, A. (co-PI). It's Elementary! Exploring backyard moth ecology to learn about science practices
  - b) (2017-18) Smith, J. (PI), White, P. J. T. (co-PI), Bellon, R. (co-PI) Evo-Med-Ed: developing and testing cases for evolutionary medicine learning.
  - c) (2016-17) White, P. J. T. (PI), Stroup, D. (co-PI), Caballero, M. (co-PI): Learning science by doing science: project-based learning through urban entomology.
  - d) (2014-2015) White, P. J. T. (PI), Sawtelle, V. (co-PI), Lahr, R. (co-PI), Valles, S. (co-PI), Wang, H. (co-PI): Designing, developing and assessing a module-based system of interdisciplinary education.
3. STEM Gateway Fellows Program
  - a. (2016-18) The intersection of scientific disciplines around the crosscutting concept of *energy*.

## **TEACHING**

### **Instructor of Record**

1. LB145, Cell and Molecular Biology (spring 2024): 5 credits, 47 students
2. LB145, Cell and Molecular Biology (fall 2023): 5 credits, 40 students
3. LB492/348, Fossil Hunters Study Away (summer 2022): 5 credits, 7 students
4. LB145, Cell and Molecular Biology (spring 2022): 5 credits, 120 students.
5. LB492, Science, Pseudoscience, & B. S. (fall 2021): 4 credits, 16 students.
6. LB145, Cell and Molecular Biology (spring 2020): 5 credits, 48 students.
7. LB492, Science, Pseudoscience, & B. S. (fall 2019): 4 credits, 16 students.
8. LB145, Cell and Molecular Biology (fall 2019): 5 credits, 37 students.
9. LB492, Science, Pseudoscience, & B. S. (spring 2019): 4 credits, 15 students.
10. ENT812, Teaching Preparation for Entomologists (fall, 2018): 1 credit, 6 students.
11. LB145, Cell and Molecular Biology (spring, 2018): 5 credits, 96 students.
12. LB145, Cell and Molecular Biology (spring, 2017): 5 credits, 99 students.
13. ENT890, Introduction to Insect Genetics (fall, 2016): 2 credits, 4 students
14. LB145, Cell and Molecular Biology (spring, 2016): 5 credits, 93 students
15. LB145, Cell and Molecular Biology (fall, 2015): 5 credits, 40 students
16. LB494, Urbanization and the Lepidoptera (fall, 2015): 2 credits, 1 student
17. LB145, Cell and Molecular Biology (spring, 2015): 5 credits, 99 students
18. LB145, Cell and Molecular Biology (spring, 2014): 5 credits, 98 students

19. LB145, Cell and Molecular Biology (spring, 2013): 5 credits, 80 students
20. LB493/4, Urbanization and the Lepidoptera (summer, 2013): 2 credits, 3 students
21. LB145, Cell and Molecular Biology (fall, 2012): 5 credits, 10 students

### Teaching Awards and Recognition

1. Entomology Education Project Award, (2024) Entomological Society of America.
2. Teacher Scholar Award, (2020) Michigan State University. This award is given to recognize excellence in teaching, particularly with respect to evidence-driven approaches.
3. Four-Year College & University Teaching Award, (2019) National Association of Biology Teachers. This national award recognizes creativity and innovation in undergraduate biology teaching.
4. #iteachmsu Award, (2019) Michigan State University: Certificate of achievement awarded for dedication to student success and positively contributing to the teaching and learning mission of MSU.
5. Distinguished Achievement Award in Teaching, (2018) Entomological Society of America, North Central Branch: [http://tiny.cc/white\\_ent](http://tiny.cc/white_ent)
6. AT&T Award in Teaching Excellence, Best Blended Course, (2018) Michigan State University: <http://attawards.msu.edu/winners/2018/peter-white>
7. Honorary Faculty Certificate, (2016) Lyman Briggs College, Michigan State University: Presented by the graduating class of 2016 to recognize dedication to the enrichment of learning outside the classroom.

### PUBLISHED EDUCATION RESOURCES

‡ indicates peer reviewed

1. White, P. J. T. (2023) 5-part YouTube Series on [The Evolution of Breast Cancer](#). Total runtime: 57 minutes, 01 seconds.
2. White, P. J. T. (2023) 4-part YouTube Series on [The Evolution of Opioid Addiction](#). Total runtime: 37 minutes, 12 seconds.
3. White, P. J. T. (2023) 5-part YouTube Series on [Virus Biology and Evolution](#). Total runtime: 44 minutes, 07 seconds.
4. White, P. J. T. (2023) 5-part YouTube Series on [The Evolution of Skin Color and Cancer](#). Total runtime: 41 minutes, 44 seconds.
5. White, P. J. T. (2023) YouTube, [BioBasics: Evolution Explained in 2 Minutes](#) Total runtime: 2 minutes, 18 seconds.
6. White, P. J. T. (2023) YouTube, [BioBasics: How Does ATP Provide Energy to Cells?](#) Total runtime: 2 minutes, 54 seconds.
7. White, P. J. T. (2023) YouTube, [BioBasics: What are Carbs?](#) Total runtime: 1 minutes, 46 seconds.

8. White, P. J. T. (2023) YouTube, [BioBasics: What is Protein?](#)  
Total runtime: 2 minutes, 01 seconds.
9. White, P. J. T. (2022) 2-part YouTube Series on [Evolution Process and Pattern Fundamentals](#). Total runtime: 36 minutes, 53 seconds.
10. White, P. J. T., Heidemann, M., Riedy, J., and Smith, J. (2022) 4-part YouTube Video Series on [Fur Color Evolution](#). Total runtime: 34 minutes, 43 seconds.
11. White, P. J. T., Heidemann, M., Smith, J., and Filice, D. (2022) 3-part YouTube Video Series on [Garden Pea Taste Evolution](#). Total runtime: 25 minutes, 04 seconds.
12. †Heidemann, M., Taylor, M., Storm, A., Dresser-Briggs, C., Warwick, A., and White, P. J. T. (2019) A Confluence of Immunology and Phylogeny. *National Center for Case Study Teaching in Science*, University of Buffalo, NY.
13. †Heidemann, M., White, P. J. T. and Smith, J. J. (2016) Evolution in Action. *National Center for Case Study Teaching in Science*, University of Buffalo, NY.
14. †Heidemann, M., White, P. J. T. and Smith, J. J. (2014) The Evolution of Color Vision in Monkeys: from Nucleotides to Ecology. *National Center for Case Study Teaching in Science*, University of Buffalo, NY.
15. †Heidemann, M., White, P. J. T. and Smith, J. J. (2014) Joel E. Greengiant Learns about Peas: from Nucleotides to Selection. *National Center for Case Study Teaching in Science*, University of Buffalo, NY.

## PRESS

1. MSU Magazine (Winter, 2022) MothEd. <https://go.msu.edu/moth-ed>
2. MSU Today (November, 2021) Capturing Moths, and Kids' Curiosity About Science. <https://msutoday.msu.edu/news/2021/capturing-moths-and-kids-curiosity-about-science>
3. College of Agriculture & Natural Resources, Department of Entomology, MSU (2018): Peter White Honored for Exceptional Teaching by North Central States Entomologists. [<https://www.canr.msu.edu/news/peter-white-honored-for-exceptional-teaching-by-north-central-states-entomologists>]
4. College of Education News, MSU (2016) The Moth Project: Investigating Science Together [<http://edwp.educ.msu.edu/news/2016/the-moth-project-investigating-science-together>]
5. Lyman Briggs College, Briggatine News Letter (Spring, 2016) LBC Students Study Biology and Evolution at the Chicago Field Museum [[http://www.lymanbriggs.msu.edu/alumni\\_and\\_friends/briggatine/2016/16SpringNewsletter.pdf](http://www.lymanbriggs.msu.edu/alumni_and_friends/briggatine/2016/16SpringNewsletter.pdf)] [[https://www.lbc.msu.edu/news\\_and\\_events/2016/LB145.cfm](https://www.lbc.msu.edu/news_and_events/2016/LB145.cfm)]
6. College of Education News, MSU (2016) The Moth Project: Investigating Science Together [<http://edwp.educ.msu.edu/news/2016/the-moth-project-investigating-science-together>]
7. Entomology Today (2015) A Cheaper Lighter Moth Trap May Make Citizen Science Projects More Affordable [<https://entomologytoday.org/2016/03/02/a-cheaper-lighter-moth-trap-may-make-citizen-science-projects-more-affordable>]

8. American Institute of Biological Sciences (2013) Teaching Complete Evolutionary Stories Increases Learning  
[press release: [http://www.eurekalert.org/pub\\_releases/2013-06/aiob-tce061313.php](http://www.eurekalert.org/pub_releases/2013-06/aiob-tce061313.php)]

## **STUDENT ADVISING AND SUPERVISING**

### **Graduate Student Mentoring and Advising**

1. Chris Brown, PhD Candidate (2022-current)  
My Role: Major Professor / Thesis Advisor  
Student Thesis Topic: Using artificial intelligence for moth identification to facilitate community science.
2. Titas Dutta (2023-24)  
My Role: SUTL Research Mentor  
Topic: Using board game for learning in introductory biology.
3. Nicole Wonderlin, PhD Candidate (2016-2023)  
My Role: Major Professor / Thesis Advisor  
Student Thesis Topic: Investigating moths as pollinators in urban community gardens.
4. Joseph Riedy (2021-2022)  
My Role: SUTL Research Mentor  
Topic: EvoMedEd - Using Cases of Human Health to Teach Intro Biology.
5. Colin Bailey, MSc Student (2019-2021)  
My Role: Major Professor / Thesis Advisor  
Student Thesis Topic: Defining the urban-to-rural habitat gradient and investigating its importance for moth assemblages.
6. Aesha Mustafa (2019-2020)  
My Role: SUTL Research Mentor  
Topic: Analysis of the graduate-student mentoring and education research program.
7. Caitlin Kirby (2017-2019)  
My Role: SUTL Research Mentor  
Topic: Using figures and problem solving to improve student graphing skills.
8. Nick Babcock, MSc Candidate (2016-2018)  
My Role: Thesis Guidance Committee Member  
Student Thesis Topic: Evaluating the dispersal and resource preferences of carrion fly communities across the suburban and rural landscape.
9. So-Jung Youn (2016-2017)  
My Role: SUTL Research Mentor  
Topic: Changes in undergraduate understanding of biology over time.

### **Postdoctoral Associate Advising and Mentoring**

1. Brian Keas, PhD (2022-2024)  
My Role: Advisor  
Research Topic: Moth Ecology Research in K-5 Education
2. Joey Riedy, PhD (2022)  
My Role: Advisor  
Research Topic: Evolutionary Medicine
3. David Filice, PhD (2021-2022)  
My Role: Advisor  
Research Topic: Evolutionary Medicine.
4. Rebecca Ellis, PhD (2019-2021)  
My Role: Co-Advisor  
Research Topic: Assessment K-12 interactive evolution education curricular units.
5. Alexa Warwick, PhD (2017-2019)  
My Role: Co-Advisor  
Research Topic: Development and implementation of K-12 interactive evolution education curricular units.

### **Undergraduate Student Inclusion in Research**

1. Eva Conley (2024-current): MothEd
2. Angelene Alexander (2023-current): Evolutionary Medicine Education Research.
3. Grace Best (2022-current): Moth Ecology Research in K-7 Education
4. Michael LeTarte (2022-current): Moth Ecology Research in K-7 Education
5. Maria Berry (2019-2021): Biology Education Research
6. Sophia Sacco (2019): Urban Lepidoptera Research; Science Ed Research.
7. Dylan Smith (2019): Urban Lepidoptera Research; Moth Ed Research; Science Ed Res.
8. Fadumo Ali (2019): Urban Lepidoptera Research; Moth Ed Research.
9. Kalee Rumfelt (2017-2019): Fish Barcoding, Lepidoptera Pollen Classification
10. Melanie Bumler (2018): Urban Lepidoptera Research
11. Andromeda Veach (2018): Urban Lepidoptera Research
12. Tegan Hansgen (2016-18): Investigation of Lepidoptera Melanin Genetics
13. Madeline Bresson (2017): Urban Lepidoptera Research and 3D Connected Biology
14. Jennifer Semaan (2017): Investigation of Lepidoptera Melanin Genetics
15. Alissa Mossbarger (2017): Intro Biology Curriculum Analysis
16. Lydia Ross (2016-2017): Lepidoptera Assemblage Dynamics Across Urban Landscapes
17. Claire Sweeney (2016-17): Investigation of Lepidoptera Melanin Genetics
18. Joel Stewart (2015-16): Lepidoptera Assemblage Dynamics Across Urban Landscapes
19. Katie Glover (2015-16): Lepidoptera Assemblage Dynamics Across Urban Landscapes
20. Lauren Isopi (2015): Lepidoptera Assemblage Dynamics Across Urban Landscapes
21. Joseph Leider (2015): Lepidoptera Assemblage Dynamics Across Urban Landscapes
22. Keegan Calnan (2015): Lepidoptera Barcoding Investigation
23. Amanda Rice (2014-15): Lepidoptera Assemblage Dynamics Across Urban Landscapes
24. Abby Sulesky (2014): Local Lepidoptera Larva Collections
25. Evan Barfusse (2014): Local Lepidoptera Larva Collections
26. Isabella Schember (2014): Lepidoptera Assemblage Dynamics Across Urban Landscape
27. Maris Polanco (2014): Lepidoptera Assemblage Dynamics Across Urban Landscape



## CONFERENCES, PANELS, AND PRESENTATIONS

1. White, P. J. T. (2024) Invited Public Outreach Session “Our eyesight and our origin” *Expert-Is-In Session at the Hall of Human Origin at the Smithsonian National Museum of Natural History*. Washington, D.C., USA.
2. Keas, B., White, P.J. T., and Stroupe, D. (2024). “Authenticity for teachers, students, and scientists: Co-developing science in classrooms.” In symposium titled “Citizen science in schools”. *Annual Meeting of the National Association for Research in Science Teaching*. Denver, CO.
3. White, P. J. T., Filice, D., Smith, J. J., and Heidemann, M. (2023) “Using Examples of Human Disease to Help Students Learn Fundamental Biological Processes.” *Society for the Advancement of Biology Education Research*. Minneapolis, MN, USA.
4. White, P. J. T. (2023) “Why Do We Get Cancer? Using the Example of Breast Cancer to Help Students Learn Introductory Biology Concepts and Processes”, *Western Conference of Science Education*, London, ON, Canada.
5. White, P. J. T., Stroupe, D., Reichsman, F., Keas, B., Dorsey, C., Haavind, S., Bondaryk, L., and Brown, C. (2023) “MothEd: Authentic Science for Elementary and Middle School Students” *National Sciences Foundation DRK12 Principal Investigator Meetings*, Washington D.C.
6. White, P. J. T. (2023) “Using Examples of Human Disease to Teach Introductory Biology” *Lyman Briggs College Lightning Talks*, Michigan State University, East Lansing, MI, USA.
7. Keas, B. and White, P. J. T. (2023) “MothEd: Authentic Science Experiences Exploring Moth Biodiversity” *National Science Teachers Association National Meeting*, Atlanta, GA, USA.
8. White, P. J. T., Filice, D., Heidemann, M., Riedy, J., and Smith, J. (2022) “Using Breast Cancer to Teach Evolution in Introductory College Biology” *Annual meeting of the National Association of Biology Teachers*, Indianapolis, IN, USA.
9. Smith, J., Filice, D., Heidemann, M., Riedy, J., and White, P. J. T. (2022) “EvoMedEd: Piloting Evolutionary Medicine Cases in Lower- and Upper-Year Undergraduate Courses.” *International Society for Evolution, Medicine & Public Health*. Lisbon, Portugal.
10. White, P. J. T., Filice, D., Heidemann, M., and Smith, J. (2022) “An Integrative Approach for Teaching and Learning About Biological Evolution Using Human Disease” *National Sciences Foundation, Improving Undergraduate STEM Education PI Meeting*, Washington D.C., USA.
11. Filice, D., Smith, J., Heidemann, M., and White, P. J. T. (2021) “EvoMedEd: An Interactive Case-Based Approach to Evolution Education.” *International Society for Evolution, Medicine & Public Health*. Virtual Meeting.
12. Filice, D., Smith, J., Heidemann, M., and White, P. J. T. (2021) “Interactive Cases for Evolution Education” *McMaster University Evolution, Ecology & Behavioral Seminar*.

13. Ellis, R., Mead, L., Reichsman, F., Smith, J., McElroy-Brown, K., Bondaryk, G., Berry M., and White, P. J. T. (2021) "High school students' ability to connect biological processes when studying evolution" *National Association for Research in Science Teaching*. Virtual.
14. Kirby, K., Fleming-Davis, A. and White, P. J. T. (2019) "Figure of the Day: an enjoyable classroom activity that improves students' figure creation skills." *Society for the Advancement of Biology Education Research*. Minneapolis, MN, USA.
15. Kolonich, A., Warwick, A., Mead, L., Reichsman, F., Horwitz, P., White, P. J. T., Smith, J., McElroy-Brown, K. (2019) "Using high school students' initial perceptions of evolution across biological levels to inform curriculum development." *National Association for Research in Science Teaching*, Atlanta, GA, USA.
16. White, P. J. T., Kirby, K., and Fleming-Davis, A. (2019) "The Figure of the Day: an in-class activity to improve students' quantitative literacy and data interpretation skills" *Western Conference on Science Education*, London, ON, Canada.
17. White, P. J. T. (2018) Invited Talk: "How instructional videos changed teaching and learning in an introductory course." *College of Biological Sciences*, University of Guelph, ON, Canada.
18. Warwick, A., White, P. J. T., Reichsman, F., Mead, L., Horwitz, P., Smith, J., and McElroy-Brown, K. (2018). "ConnectedBio: Revealing Student Ideas and Explanations of Evolutionary Phenomena." *BEACON Congress*. East Lansing, MI, USA.
19. Wonderlin, N., and White, P. J. T. (2018) "Associations between moth pollinators and common garden plants." *Entomology Society of America Annual Meeting*, Vancouver, B.C., Canada.
20. White, P. J. T., Reichsman, F., Mead, L., Horwitz, P., Smith, J., Krajcik, J., Warwick, A., and McElroy-Brown, K. (2018) "Connected Biology: Three-dimensional learning from molecules to populations." *National Sciences Foundation, Discovery Research PreK-12 PI Meeting*, Washington D.C., USA.
21. Stroupe, D., White, P. J. T., and Caballero, M. D. (2018) Invited Workshop: "Co-configuring a 6<sup>th</sup> grade Lepidoptera learning community." *Annual meeting of the National Association for Research in Science Teaching*, Atlanta, GA, USA.
22. White, P. J. T. (2018) "The figure of the day." *Lyman Briggs College, Science Café*. Michigan State University, East Lansing, MI, USA.
23. White, P. J. T., Warwick, A., Mead, L., and Smith, J. (2017) Invited Workshop: "Making Meaning through modeling: integrative cases for evolution education." *National Academies Special Topics Summer Institute on Quantitative Biology*, Michigan State University, East Lansing, MI, USA.
24. Kelly, T., Smith, K., White, P. J. T. and Wilson, P. (2017) "Team teaching as an agent for change." *Western Conference on Science Education*, London, ON, Canada.
25. White, P. J. T., Noel, T. and Keenleyside, W. (2017) Workshop: "Videos in STEM courses: A hands-on workshop for creating instructional videos." *Western Conference on Science Education*, London, ON, Canada.

26. Noel, T., Keenleyside, W. and White, P. J. T. (2017) "Videos in STEM courses: a 21st century tool in higher education." *Western Conference on Science Education*, London, ON, Canada.
27. Hinic-Frlog, S. and White, P. J. T. (2017) Unconference Session: "How to deal with student evaluations." *Ontario Consortium of Undergraduate Educators Summer unConference*, Port Carling, ON, Canada.
28. Warwick, A., White, P. J. T., Mead, L. and Smith, J. (2017) "Evaluating the use of integrative Evo-Ed cases for evolution education." *Society for the Study of Evolution, Annual Meeting*, Portland, OR, USA.
29. White, P. J. T. (2017) "Go flip yourself: The joys, challenges, pains and gains of flipping a course." The evolution of evolution education." *Teaching and Learning Spring Conference*, Academic Advancement Network, MSU, East Lansing, MI, USA.
30. Ording, G., Smith, J. and White, P. J. T. (2017) "Curricular design and implementation: intentional pathways toward student success." *Department of Entomology Departmental Seminar*, Michigan State University, East Lansing, MI, USA.
31. White, P. J. T. (2016) Keynote Speaker: "The evolution of evolution education." *Pearson Canada's Biology Leadership Forum*, Toronto, ON, Canada.
32. White, P. J. T. and Smith, J. (2016) Invited Workshop: "Integrative cases for evolution education." *National Academies Special Topics Summer Institute on Quantitative Biology*, North Carolina State University, Raleigh, NC, USA.
33. White, P. J. T. (2016) "Innovative Pedagogies: Molecular Sculpting." *Lyman Briggs College Community Retreat*, East Lansing, MI, USA.
34. White, P. J. T. (2016) Unconference Session: "Writing (& grading) really good questions." *Ontario Consortium of Undergraduate Educators Summer unConference*, Port Carling, ON, Canada.
35. White, P. J. T. and Keenleyside, W. (2015) Unconference Session: "Flipped classrooms – how did you do it? What worked and what didn't?" *Ontario Consortium of Undergraduate Educators Winter unConference*, Toronto, ON, Canada.
36. White, P. J. T. and Rice, A. (2015) "Urban moth phenotypic and taxonomic characteristics." *Entomology Society of America Annual Meeting*, Minneapolis, MN, USA.
37. Glover, K. A., Stewart, J., Rice, A. and White, P. J. T. (2015) "The technical and performance characteristics of a low-cost simply-constructed, black light insect trap." *Entomology Society of America*, Minneapolis, MN, USA.
38. White, P. J. T. (2015) Invited IGNITE Talk: "Noah's Ark: Helping evolution and creationism find common ground." *Western Conference on Science Education*, London, ON, Canada.
39. White, P. J. T. (2015) "Sculpting molecular systems in introductory biology classes." *Western Conference on Science Education*, London, ON, Canada.
40. White, P. J. T. (2015) "Evolution education research." *Seminar for the MSU Physics Education Research (PER) Group*, East Lansing, MI, USA.

41. White, P. J. T. (2014) Invited Talk: "Teaching evolution to undergraduates: an integrative case approach." *Department of Biology Seminar Series*, Western University, London, ON, Canada.
42. White, P. J. T. (2014) Invited Plenary Talk: "Teaching evolution." *K-12 Partnership Summer Institute*, MSU Kellogg Biological Station, MI, USA.
43. White, P. J. T., Heidemann, M. and Smith, J. (2013) "Evo-Ed: Integrative case-based tools for teaching evolution." *National Association of Biology Teachers*, Atlanta, GA, USA.
44. White, P. J. T., Heidemann, M. and Smith, J. (2013) Workshop: "The integrative approach to evolution education." *Western Conference on Science Education*, London, ON, Canada.
45. White, P. J. T., Heidemann, M. and Smith, J. (2013) Workshop: "Integrated case studies in science education." *Society for the Study of Evolution*, Snowbird, UT, USA
46. White, P. J. T., Heidemann, M. and Smith, J. (2013) "A new integrative approach to evolution education." *CREATE-ing the Future for STEM Education*, MI State University, East Lansing, Michigan, USA.
47. White, P. J. T., Heidemann, M. and Smith, J. (2012) "A case studies approach to bridge gaps in evolution education." *ScienceCaseNet Conference: Networking Strategies to Bridge Perceived Gaps in Biology education*, Buffalo, NY, USA
48. White, P. J. T., Heidemann, M. and Smith, J. (2012) "The use of case studies in evolution education." *1st Joint Congress on Evolutionary Biology*, Ottawa, ON, Canada
49. White, P. J. T., Heidemann, M. and Smith, J. (2012) "Integrating concepts across biology's sub-disciplines." *Society for the Advancement of Biology Education Research*. Minneapolis, MN, USA.
50. Smith, J., Heidemann, M. and White, P. J. T. (2012) "Evolution case studies." *IBP Summer Conference*, Washington DC, USA
51. White, P. J. T. (2012) "Integrative case studies in evolution education." *CREATE-ing the Future for STEM Education*, Michigan State University, East Lansing, MI, USA.
52. White, P. J. T., McGill, B. J. and Lechowicz, M. J. (2011) "The effect of trail disturbance on caterpillars in disturbed forest fragments." *Ontario Ecology, Ethology & Evolution Colloquium*. Toronto, ON, Canada.
53. White, P. J. T. (2011) "The impact of pedagogy development workshops on the teaching philosophy of graduate students." *Western Conference on Science Education*. London, ON, Canada.
54. White, P. J. T., McGill, B. J. and Lechowicz, M. J. (2010) "Evaluating and tracking disturbance in Montegian forest fragments using satellite imagery." *Canadian Society for Ecology and Evolution*. Quebec City, QC, Canada.
55. White, P. J. T., Delaney, D., Syncox, D. and Alters, B. (2010) Workshop: "Student response systems implementation and pedagogy development at a large research-intensive university in Canada: a case study." *International Consortium on Education Development*. Barcelona, Spain.

56. White, P. J. T., Bodeux, B. B., Fitzpatrick, J., McGill, B. J. and He, F. (2008) "How many moths are there? – Using stand structure to predict site traits that are difficult to assess without extensive sampling." *EMEND Annual Workshop*. Edmonton, AB, Canada.
57. White, P. J. T. and McGill, B. J. (2007) "The use of remote sensing and satellite imagery to detect disturbance and track recovery in forest stands." *Canadian Society for Ecology and Evolution*. Toronto, ON, Canada.
58. White, P. J. T. and Kerr, J. T. (2005) "Analyzing the predictors of temporal and spatial trends of butterfly species richness in Canada." *Ecological Society of America*. Montreal, QC, Canada.

## **SERVICE, LEADERSHIP, AND OUTREACH**

### **Departmental/College/University Committees**

1. Department of Entomology: Graduate Committee (2022-current)
2. MSU Faculty Senate (2023-2024)
3. MSU University Council (2023-2024)
4. Lyman Briggs College: Annual Review Committee (2023-2024)
5. Lyman Briggs College: College Advisory Committee, (chairperson; 2023-2024)
6. University Committee on Faculty Affairs (2021-current)
  - a. Chair, Personnel Sub-Committee (2022 – 2023)
  - b. Vice-Chair (2021 – 2022)
7. Department of Entomology: Grad Student DEI&B Survey Ad-Hoc Committee (2022-2023)
8. Lyman Briggs College Tenure Promotion Review Ad-Hoc Bylaws Revision Committee (2021-22)
9. Lyman Briggs College Tenure Promotion Review Ad-Hoc Committee (2021)
10. Department of Entomology: Diversity, Equity and Inclusion Committee (2019-2020)
11. Department of Entomology: Awards Committee (2017-2019, Chair 2019-2020)
12. Lyman Briggs College: Awards Committee (2015-2018, Chair 2018-2019)
13. Department of Entomology: Curriculum Committee (2015-2017, Chair 2017-2018)
14. Lyman Briggs College: Biology Curriculum Coordinator (2017)

### **Search Committees**

1. Lyman Briggs College: Co-Chair Physics Tenure Track Search Committee (2021-22)
2. Lyman Briggs College: Human Resources Officer, Interview Committee (2019)
3. Lyman Briggs College: Sociologist Tenure Track Position Search Committee (2018)
4. Lyman Briggs College: Biology/Advising Academic Specialist Search Committee (2017)
5. Department of Entomology: Academic Specialist Search Committee (Chair, 2017)
6. Lyman Briggs College: Biology Academic Specialist (FT) Search Committee (2016)

### **Service to the Ecology and Science Education Communities**

1. Associate Editor
  - a. Biodiversity and Conservation (2012-2020)
2. Ad Hoc Review Activities
  - a. American Biology Teacher
  - b. NSF Review Panelist (2014, 2017, 2018)

- c. Great Lakes Entomologist
- d. Journal of Interactive Learning Environments
- e. Ecological Research
- f. Urban Ecosystems
- g. Evolution Education and Outreach
- 3. Professional Memberships.
  - a. The Lepidopterists' Society
  - b. National Association of Biology Teachers
  - c. Entomological Society of America
  - d. International Society for Design and Development in Education
  - e. Society for the Advancement of Biology Education Research

### **Service to the MSU, Entomology and Lyman Briggs College Communities**

- 1. Faculty Advisor – MSU Triathlon Club Team: (2022-current)
- 2. Faculty Advisor – Gift of Life – Bone Marrow Registry: (2017-2018)
- 3. Faculty Advisor – Spartans Supporting Refugees: (2017-2018)
- 4. LBC GTA and LA Workshop on Academic Dishonesty: (2015, 2016, 2017)
- 5. Panelist, New International Faculty Orientation: (2016)
- 6. Volunteer Instructor, Grandparent's University: (2013-2015)
- 7. Keynote Address, National Society of Collegiate Scholars, MSU Chapter. (2012).
- 8. Volunteer Science Olympiad Judge: State-Level Science Olympiad Tournament (2012).

### **Service and Outreach to the Local Community**

- 1. Facilitated a 4-week classroom science unit to help students learn about the importance of moths as pollinators, pests, and as part of the food web.
  - a. 2019, Sycamore Elementary School 2<sup>nd</sup> grade, Holt Public School
  - b. 2019, Hope Middle School 5<sup>th</sup> grade, Holt Public Schools
  - c. 2016, MacDonald Middle School 6<sup>th</sup> grade, East Lansing Public Schools