

August 23rd, 2026

Gregory K. Davis

Associate Professor | Bryn Mawr College

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Bryn Mawr College

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EDUCATION

- 2002 Ph.D. in Developmental Biology, Committee on Developmental Biology, University of Chicago
Committee Award for achievement in developmental biology
- 1995 M.A. in History and Philosophy of Science, Department of History and Philosophy of Science,
University of Pittsburgh
- 1992 B.S. in Biology and Philosophy (double major), Duke University
Magna Cum Laude, Phi Beta Kappa, Phi Eta Sigma
Certificate in Women's Studies

PROFESSIONAL APPOINTMENTS

- 2014-pres Associate Professor, Department of Biology, Bryn Mawr College
- 2008-2013 Assistant Professor, Department of Biology, Bryn Mawr College
- 2002-2008 Visiting Research Fellow, Dept. of Ecology & Evolutionary Biology, Princeton University
- 1992-1993 Luce Scholar, Institute for Biomedical Sciences, Academia Sinica, Taipei, Taiwan

GRANTS & AWARDS

- 2026 \$25,000 Pilot Collaboration and Innovation Grant, 2-year award, Bryn Mawr College for
"Revealing the secrets of switching: ReMOT interrogation of the pea aphid reproductive
polyphenism"
- 2025 \$2,000 Seed Grant for the proposal "Sustaining Tri-College Evolutionary Developmental
Biology (Tri-Co EvoDevo)" from the Tri-College Faculty Forum (renewal)
- 2024 McPherson Award (Bryn Mawr College) for achievement and service to the community
- 2024 \$1,700 Seed Grant for the proposal "Sustaining Tri-College Evolutionary Developmental
Biology (Tri-Co EvoDevo)" from the Tri-College Faculty Forum (renewal)
- 2023 \$1,700 Seed Grant for the proposal "Sustaining Tri-College Evolutionary Developmental
Biology (Tri-Co EvoDevo)" from the Tri-College Faculty Forum
- 2022 \$783,065 Inclusive Excellence 3 (IE3) 6-year Implementation Grant to Bryn Mawr
College (institutional) from the Howard Hughes Medical Institute to support effective
and inclusive teaching in STEM (*Note: with a total of \$391,220 already distributed,
program was terminated by HHMI in February 2025 with no explanation*)
- 2021 \$30,000 Inclusive Excellence 3 (IE3) 2-year Learning Grant to Bryn Mawr College
(institutional) from the Howard Hughes Medical Institute to support effective and
inclusive teaching in STEM

- 2021 \$600 Tri-College Faculty Forum Brainstorming Grant for the proposal “Revival of the Tri-College Evolutionary Developmental Biology (TriCo EvoDevo) Group”
- 2016 \$311,319 Research in Undergraduate Institutions (RUI) 3-year award, National Science Foundation, for “Specification and evolution of reproductive fate in the pea aphid” (IOS-1557678)
- 2013 \$13,540 New Directions in Teaching and Research Grant, awarded to Gregory Davis and Joshua Shapiro through Bryn Mawr College’s Undergraduate Science Education Grant from the Howard Hughes Medical Institute
- 2011 Junior faculty leave (one year), supported by the Elizabeth B. Jackson Biology Fund
- 2011 \$276,190 Research in Undergraduate Institutions (RUI) 3-year award, National Science Foundation, for “Divergent Patterning development in the pea aphid” (IOS-1051643), including supplemental Research Opportunity Award to fund collaboration with Dayalan Srinivasan, Rowan University
- 2003 National Research Service Award (NRSA) Individual Fellowship, National Institutes of Health, for three years of postdoctoral training
- 2003 Life Sciences Research Fellowship Finalist
- 2001 \$1,000 from Hinds Fund, Committee on Evolutionary Biology, University of Chicago, to study polychaete worm development in lab of Mark Martindale at Kewalo Marine Laboratory, Honolulu
- 1995 Dean of the Graduate School Scholarship, for a semester of graduate tuition at University of Pittsburgh
- 1992 Luce Scholarship, for a year of research at the Institute for Biomedical Sciences, Academia Sinica, Taipei, Taiwan
- 1991 Beinecke Memorial Scholarship, for two years of graduate study in the history and philosophy of science
- 1990 Howard Hughes Undergraduate Fellowship, for research on learning & memory in octopus
- 1988 Alumni Scholarship, for four years of partial tuition at Duke University

ONGOING RESEARCH

I am broadly interested in the developmental basis of evolutionary change and specifically in the development and evolution of phenotypic plasticity. The undergraduate students in my lab and I study the reproductive polyphenism exhibited by the pea aphid, *Acyrtosiphon pisum*, in which differences in day length determine whether mothers will produce daughters that reproduce either sexually by laying fertilized eggs, or asexually by allowing oocytes to complete embryogenesis within the mother without fertilization. We are interested in two general questions:

- 1) How have the molecular mechanisms of pattern formation adapted to the dramatically modified version of oogenesis and embryogenesis that occurs within asexual mothers?
- 2) What is the nature of the maternal signal and embryonic switch that specifies sexual versus asexual fate during embryonic development?

We are also currently attempting to develop biotechnology that will enable us to efficiently disrupt gene expression during embryogenesis in aphids. Finally, we are interested in the historical roles aphids have played in the development of genetics and embryology during the early 20th century.

PEER-REVIEWED PUBLICATIONS

(* denotes shared first authorship; § denotes BMC undergraduate)

Manuscripts published, in press, or submitted

1. **Davis GK** and Li RY.§ Pausing sex: JH, ILPs, and maternal control over aphid reproductive fate, *submitted* to special issue of *Biology* entitled “Gene–Environment Interactions in Evolutionary Developmental Biology”.
2. Bulek D, Coates N, **Davis GK**, Liu JM, More T, Murray MG, Nollert MU, Skirkanich JN and DJ Worcester (2026) Institutional Calibration, Adaptation, and Sustainability of Pedagogical Partnerships. *International Journal for Students as Partners*. *In press*.
3. **Davis GK** and MA Wund (2026) Developmental plasticity and phenotypic evolution. In: Wolf, JB and CADM Russo (Eds.), *Encyclopedia of Evolutionary Biology (2nd edition)*, vol. 4 (pp. 69–83), Elsevier, Academic Press. <https://doi.org/10.1016/B978-0-443-15750-9.00113-0>
4. **Davis GK**, Brisson JA and RD Bickel (2021) Evo-Devo Lessons Learned from Aphids. In: Nuño de la Rosa L and G Müller (Eds.) *Evolutionary Developmental Biology* (pp. 817–829). Springer. https://doi.org/10.1007/978-3-319-32979-6_182
5. Stanhope L, Ziegler L, Haque T, Le L, Vines M, **Davis GK**, Zieffler A, Brodfuehrer P, Preest M, Belisky J, Umbanhowar C and PJ Overvoorde (2017) Development of a Biological Science Quantitative Reasoning Exam (BioSQuARE). *CBE-Life Sciences Education* 16(4): ar66. <https://doi.org/10.1187/cbe.16-10-0301>
6. DiBartolo PM, Gregg-Jolly L, Gross D, Manduca CA, Iverson E, Cooke DB, **Davis GK**, Davidson C, Hertz PE, Hibbard L, Ireland SK, Mader C, Pai A, Raps S, Siwicki K and JE Swartz (2016) Principles and Practices Fostering Inclusive Excellence: Lessons from the Howard Hughes Medical Institute's Capstone Institutions. *CBE-Life Sciences Education* 15(3): ar44. <https://doi.org/10.1187/cbe.16-01-0028>
7. Brisson JA and **GK Davis** (2016) The right tools for the job: Regulating polyphenic morph development in insects. *Current Opinion in Insect Science* 13: 1–6. <https://doi.org/10.1016/j.cois.2015.09.011>
8. Perez KE, Hiatt A, **Davis GK**, Trujillo C, French DP, Terry M and RM Price (2013) The EvoDevoCI: A concept inventory for gauging students’ understanding of evolutionary developmental biology. *CBE-Life Sciences Education* 12: 665–75. <https://doi.org/10.1187/cbe.13-04-0079>
9. Hiatt A, **Davis GK**, Trujillo C, Terry M, French DP, Price RM and KE Perez (2013) Getting to evo-devo: concepts and challenges for students learning evolutionary developmental biology. *CBE-Life Sciences Education* 12: 494–508. <https://doi.org/10.1187/cbe.12-11-0203>

10. **Davis GK** (2013) Crossing the threshold to deeper developmental biology. *Teaching and Learning Together in Higher Education*, Spring 2013.
<https://repository.brynmawr.edu/cgi/viewcontent.cgi?article=1071&context=tlthe>
11. Bickel RD, Cleveland HC^s, Barkas J^s, Jeschke CC^s, Raz AA^s, Stern DL and **GK Davis** (2013) The pea aphid uses a version of the terminal system during oviparous, but not viviparous, development. *EvoDevo* 4: 10. <https://doi.org/10.1186/2041-9139-4-10>
12. **Davis GK** (2012) Cyclical Parthenogenesis and viviparity in aphids as evolutionary novelties. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution* 318: 448-59. <https://doi.org/10.1002/jez.b.22441>
13. Frankel N, **Davis GK**, Vargas D, Wang S, Payre F and DL Stern (2010) Phenotypic robustness conferred by apparently redundant transcriptional enhancers. *Nature* 466: 490-493. <https://doi.org/10.1038/nature09158>
14. Huang TY, Cook CE, **Davis GK**, Shigenobu S, Chen RPY and CC Chang (2010) Anterior development in the parthenogenetic and viviparous form of the pea aphid *Acyrtosiphon pisum*: *hunchback* and *orthodenticle* expression. *Insect Molecular Biology* 19: 75-85. <https://doi.org/10.1111/j.1365-2583.2009.00940.x>
15. Shigenobu S, Bickel RD, Brisson JA, Butts T, Chang CC, Christiaens O, **Davis GK**, Duncan E, Janssen R, Ferrier DEK, Lu HL, McGregor AP, Miura T, Smagghe G, Smith J, van der Zee M, Velarde R, Wilson M, Dearden P and DL Stern (2010) Comprehensive survey of developmental genes in the pea aphid, *Acyrtosiphon pisum*: frequent lineage-specific duplications and losses of developmental genes. *Insect Molecular Biology* 19: 47-62. <https://doi.org/10.1111/j.1365-2583.2009.00944.x>
16. International Aphid Genomics Consortium (2010) Genome Sequence of the Pea Aphid *Acyrtosiphon pisum*. *PLoS Biology* 8(2): e1000313. <https://doi.org/10.1371/journal.pbio.1000313>
17. **Davis GK***, Dietrich MR* and DK Jacobs (2009) Homeotic Mutants and the Assimilation of Developmental Genetics into the Evolutionary Synthesis, 1915-1952, in Cain, J and M Ruse (Eds.), *Descended from Darwin*, American Philosophical Society, Philadelphia, pp. 133-154. (*Transactions of the American Philosophical Society* 99(1): 133-154.) <https://www.jstor.org/stable/27757428?seq=1>
18. Brisson JA and **GK Davis** (2008) Pea aphid, in Hunter, WB and C Kole (Eds.), *Genome Mapping and Genomics in Arthropods*, Springer, Berlin and Heidelberg, pp. 59-65. https://digitalcommons.unl.edu/cgi/viewcontent.cgi?params=/context/bioscifacpub/article/1076/&path_info=Brisson_GMG_2008_Pea_aphid_DC_VERSION.pdf
19. **Davis GK**, Srinivasan D, Wittkopp PJ and DL Stern (2007) The function and regulation of *Ultrabithorax* in the legs of *Drosophila melanogaster*, *Developmental Biology* 308: 621-631. <https://doi.org/10.1016/j.ydbio.2007.06.002>
20. Brisson JA*, **Davis GK*** and DL Stern (2007) Common genome-wide patterns of transcript accumulation underlying the wing polyphenism and polymorphism in the pea aphid, *Evolution & Development* 9: 338-346. <https://doi.org/10.1111/j.1525-142X.2007.00170.x>
21. Braendle C, **Davis GK**, Brisson JA and DL Stern (2006) Wing dimorphism in aphids. *Heredity* 97: 192-9. <https://doi.org/10.1038/sj.hdy.6800863>

22. Wilson ACC, Dunbar HE, **Davis GK**, Hunter WB, Stern DL and NA Moran (2006) A dual-genome microarray for the pea aphid, *Acyrtosiphon pisum*, and its obligate bacterial symbiont, *Buchnera aphidicola*. *BMC Genomics* 7: 50. <https://doi.org/10.1186/1471-2164-7-50>
23. **Davis GK**, D'Alessio JA and NH Patel (2005) Pax3/7 genes reveal conservation and divergence in the arthropod segmentation hierarchy, *Developmental Biology* 285: 169-184. <https://doi.org/10.1016/j.ydbio.2005.06.014>
24. **Davis GK** and NH Patel (2003) Playing by pair-rules? *BioEssays* 25: 425-9. <https://doi.org/10.1002/bies.10278>
25. **Davis GK** and NH Patel (2002) Short, long and beyond: molecular and embryological approaches to insect segmentation, *Annual Review of Entomology* 47: 669-99. <https://doi.org/10.1146/annurev.ento.47.091201.145251>
26. **Davis GK***, Jaramillo CA* and NH Patel (2001) Pax group III genes and the evolution of insect pair-rule patterning, *Development* 128: 3445-58. <https://doi.org/10.1242/dev.128.18.3445>
27. Browne W, **Davis GK** and J McClintock (2000) Ancestors and variants: tales from the cryptic, *Evolution & Development* 2: 130. <https://doi.org/10.1046/j.1525-142x.2000.00053.x>
28. **Davis GK** and NH Patel (1999) The origin and evolution of segmentation, *Trends in Genetics* 24: M68-M72. [https://doi.org/10.1016/S0168-9525\(99\)01875-2](https://doi.org/10.1016/S0168-9525(99)01875-2)

ORAL PRESENTATIONS

(* denotes presenter; § denotes BMC undergraduate)

1. **Davis GK*** (2024) Sex as an option: reproductive polyphenism in the pea aphid, La Salle University (*invited*)
2. Markstein M* and **GK Davis*** (co-organizers) (2020) Raising a woke generation of geneticists: How and why to include eugenics history in genetics classes, workshop at TAGC 2020 Online, sponsored by the Genetics Society of America (GSA)
3. Šešelj M* and **GK Davis*** (2020) Teeth, bones and plastic sex: Development meets the environment in anthropology and biology, a co-presentation for the Works-In-Progress series, Bryn Mawr College (*invited*)
4. **Davis GK*** (2019) Reaction norms, plasticity and the (a)sex lives of aphids, Explanation, Idealization and Modeling Workshop (organizer: Collin Rice), Bryn Mawr College (*invited*)
5. **Davis GK*** (2018) Evolutionary loss of developmental plasticity in the pea aphid, Annual Mid-Atlantic Regional Meeting, Society for Developmental Biology (SDB)
6. **Davis GK*** (2015) The optimization of optional sex: the mechanism and evolution of reproductive polyphenism in aphids, Evening Evolution Group, New York University (*invited*)
7. **Davis GK*** (2015) The challenges of optional sex: the case of reproductive polyphenism in aphids, Department of Entomology, University of Maryland – College Park (*invited*)

8. Spica E^s and **GK Davis*** (2015) Induction of reproductive fate in the pea aphid, Annual Meeting, SICB
9. **Davis GK*** (2013) Patterning challenges for optional sex: the case of reproductive polyphenism in aphids, Department of Biology, Duke University (*invited*)
10. **Davis GK*** (2013) Patterning challenges for optional sex: the case of reproductive polyphenism in aphids, Department of Biology, Rutgers University – Camden (*invited*)
11. Bickel R^s, Cleveland H^s, Barkas J^s, Belletier N^s, Stern, DL and **GK Davis*** (2012) A potential patterning difference underlying oviparous and viviparous development in the pea aphid, Annual Mid-Atlantic Regional Meeting, SDB
12. **Davis GK*** (2012) Sex as an option: reproductive polyphenism in aphids, Department of Biology, The College of New Jersey (*invited*)
13. **Davis GK*** (2011) Sex as an option: reproductive polyphenism in aphids, Department of Biological Science, Rowan University (*invited*)
14. **Davis GK*** (2011) Sex and wings as options: the pea aphid as a model for developmental plasticity, Workshop on Emerging Model Arthropods, Annual *Drosophila* Research Conference, sponsored by GSA
15. **Davis GK*** (2011) Sex as an option: reproductive polyphenism in aphids, School of Biological Sciences, University of Nebraska – Lincoln (*invited*)
16. **Davis GK*** (2010) The evolution of asexuality and viviparity in aphids and their consequences, Workshop titled “Perspectives on evolutionary novelty and evo-devo: integrating explanatory approaches in biology,” Redpath Museum, McGill University (*invited*)
17. **Davis GK***, Sillers L, Parikh P, McGregor A, Orgogozo V, Delon I, Zanet J, Srinivasan D, Payre F and DL Stern (2008) Morphological evolution through *cis* regulatory mutations at an enhancer of a single gene, Annual Meeting, SICB
18. **Davis GK***, Brisson JA and DL Stern (2006) Of wings and sex: genomic analysis of polyphenism in the pea aphid, BRIDGES Symposium in Evolutionary Biology, New York University
19. **Davis GK***, Wittkopp P and DL Stern (2005) The evolution and regulation of *Ultrabithorax* in the pupal legs of *Drosophila*, The Developmental Basis of Evolutionary Change IV, University of Chicago
20. **Davis GK***, Braendle C, Brisson JA and DL Stern (2005) Approaches to polyphenism and polymorphism in the pea aphid, Plant & Animal Genome XIII
21. **Davis GK*** and NH Patel (2002) The changing role of Pax3/7 genes during the evolution of protostomes, The Evolution of Developmental Diversity, Cold Spring Harbor Laboratory
22. **Davis GK***, Jaramillo CA and NH Patel (2001) Pax group III genes and the evolution of insect pair-rule patterning, Annual Meeting, SICB (awarded “Best Student Presentation in the Division of Evolutionary Developmental Biology”)
23. **Davis GK***, Jaramillo CA and NH Patel (2000) Expression of Pairberry and the evolution of segmentation, Annual Midwest Regional Meeting, SDB

POSTER PRESENTATIONS (more details available upon request)

On the aphid reproductive polyphenism (work at Bryn Mawr College)

1. Biennial Meeting (2025), Pan-American Society for Evolutionary Developmental Biology (PASEDB)
2. Annual Meeting (2022), Society for Integrative and Comparative Biology (SICB)
3. Biennial Meeting (2017), PASEDB
4. Annual Mid-Atlantic Regional Meeting (2017), Society for Developmental Biology (SDB)
5. Annual Meeting (2016), SICB
6. Biennial Meeting (2015), PASEDB
7. Annual Meeting (2014), SICB
8. Annual Meeting (2013), SICB
9. Annual Meeting (2012), SDB
10. Annual Mid-Atlantic Regional Meeting (2011), SDB
11. Annual Mid-Atlantic Regional Meeting (2010), SDB
12. Annual Meeting (2010), SICB
13. Annual Meeting (2008), SDB
14. Pea Aphid Genome Annotation Workshop I (2008), International Aphids Genomics Consortium (IAGC), Princeton University
15. Integrating Evolution, Development and Genomics (2008), University of California, Berkeley

On Ultrabithorax and the evolution of leg morphology in Drosophila (postdoctoral work)

16. Annual Meeting (2005), SICB
17. Annual *Drosophila* Research Conference (2004), sponsored by the Genetics Society of America (GSA)
18. The Developmental Basis of Evolutionary Change III (2003), University of Chicago

On the evolving role of Pax3/7 genes in arthropods (graduate work)

19. The Developmental Basis of Evolutionary Change II (2001), University of Chicago
20. Annual *Drosophila* Research Conference (2000), sponsored by GSA
21. Annual Meeting (2000), SICB
22. Annual Meeting (1999), SDB
23. The Developmental Basis of Evolutionary Change (1999), University of Chicago

On STEM pedagogy (work at Bryn Mawr College)

24. Biennial Transforming Institutions Conference (2025), sponsored by the Accelerating Systemic Change Network (ASCN) and the Network of STEM Education Centers (NSEC)
25. Conference on Learning and Student Success (2025), sponsored by the American Association of Colleges and Universities (AAC&U)

TEACHING EXPERIENCE

2014-pres Associate Professor, Department of Biology, Bryn Mawr College

2008-2013 Assistant Professor, Department of Biology, Bryn Mawr College

2001	Embryology (4-day segment of 6-week laboratory course, TA), Marine Biological Laboratory, Woods Hole
2001	Evolutionary Biology (week-long graduate lecture course, TA), Watson School of Biological Sciences, Cold Spring Harbor Laboratory
1998	Eucaryotic Molecular Biology (graduate course, TA), University of Chicago
1998	<i>Drosophila</i> Neurobiology (3-week laboratory course, TA), Cold Spring Harbor Laboratory
1997	Animal Development (undergraduate course, TA), University of Chicago
1995	Honors Introductory Biology (undergraduate course, TA), University of Pittsburgh

STUDENT ORAL AND POSTER PRESENTATIONS (off-campus and extramural) (*** denotes award for presentation)

Oral presentations

1. **Yeipyeng Kwa** (2023), Society for Integrative and Comparative Biology, Annual Meeting
<https://www.brynmawr.edu/news/yeipyeng-kwa-23-presents-biology-conference>

Poster presentations

1. **Maiko Sho** (2018) Undergraduate Research Symposium in Biological, Chemical, Structural, and Computational Sciences, Icahn School of Medicine at Mount Sinai***
<https://www.brynmawr.edu/news/biology-students-present-research-mount-sinai-symposium>
2. **Mindy Reutter** (2018) Society for Integrative and Comparative Biology, Annual Meeting
3. **Mindy Reutter** (2017) Annual Undergraduate Research Symposium, University of Maryland, Baltimore County (UMBC)
4. **Erin Bonner** and **Emily Spiegel** (2017) Society for Integrative and Comparative Biology, Annual Meeting <https://www.brynmawr.edu/news/mawriters-present-research-national-biology-conference>
5. **Erin Bonner** (2016) Annual Undergraduate Research Symposium, UMBC***
6. **Maritza Vazquez-Trejo** (2016) Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS), Annual Conference
7. **Gemma Johnson** (2015) Annual Undergraduate Research Symposium, UMBC***
8. **Maho Okumura** (2015) Annual Undergraduate Research Symposium, UMBC
9. **Chloe Thangavelu** (2015) Annual Undergraduate Research Symposium, UMBC
10. **Grisilda Bakiasi** (2015) Annual Undergraduate Research Symposium, UMBC
11. **Maritza Vazquez-Trejo** (2015) Annual Undergraduate Research Symposium, UMBC***
12. **Emily Lemieux** (2013) Annual Undergraduate Research Symposium, UMBC
13. **Emily Spica** (2013) Annual Undergraduate Research Symposium, UMBC
14. **Liz Frontino** (2011) Annual Undergraduate Research Symposium, UMBC
15. **Swapnima Shrestha** (2011) Annual Undergraduate Research Symposium, UMBC
16. **Joanna Barkas** (2010) Annual Undergraduate Research Symposium, UMBC
17. **Amelie Raz** (2010) Annual Undergraduate Research Symposium, UMBC***

SERVICE

Service directly related to scholarship

- 2009-2015 **Member**, Steering committee of EDEN ([Evo-Devo-Eco Network](#)), an NSF-funded research coordination network
- 1999 **Co-organizer**, *The Developmental Basis of Evolutionary Change*, University of Chicago, May 1999 (co-wrote successful \$15,000 meeting grant from NASA, Life Sciences Division; invited speakers and co-organized meeting along with two fellow graduate students)

Reviewer:

Journals:

Biological Reviews
Biology of the Cell
Comparative Cytogenetics
Current Opinion in Insect Science
Development
Developmental Biology
Development, Genes & Evolution
EvoDevo
Evolution & Development
Evolution
Gene
Integrative & Comparative Biology
Insect Molecular Biology
Journal of Insect Physiology

Organisms, Diversity and Evolution
Paleontological Research
Journal of Visualized Experiments
Science and Education

Textbook Publishers:

Elsevier
Oxford University Press
Sinauer

Granting Agencies:

National Science Foundation
ad hoc reviewer (9x), panel member (5x)
Agence Nationale de la Recherche (1x)
Graduate Women in Science (1x)

Current service

- 2026-pres **Member**, Committee on Faculty Awards and Grants, Bryn Mawr College
- 2021-pres **Program Director**, HHMI Inclusive Excellence 3 (IE3) grant to Bryn Mawr College
- 2024-pres **Workplace Advisor**, Bryn Mawr College

Notable prior service

- 2021-2025 **Mentor**, [STEM in the Liberal Arts \(STEMLA\) Program](#), Bryn Mawr College
- 2022-2023 **Member**, Leadership Team, HHMI IE3 Learning Community Cluster 4 (LCC4)
- 2023 **Co-organizer**, *HHMI IE3 Learning Community Cluster 4 Annual Retreat*, Gustavus Adolphus College, Saint Peter, MN, June 2023
- 2021-2023 **Mentor Co-coordinator**, [STEMLA Program](#), Bryn Mawr College
- 2022 **Chair**, Physiology and Neuroscience Search Committees, Bryn Mawr College

- 2020-2022 **Member**, Education Council, Society for Integrative and Comparative Biology
- 2019-2021 **Chair**, Department of Biology, Bryn Mawr College
- 2020 **Chair**, Bioinformatics & Genomics Search Committee, Bryn Mawr College
- 2019 **Chair**, Physiology Search Committee, Bryn Mawr College
- 2016-2018 **Mentor**, for Bryn Mawr College's Boston 16 STEM Posse cohort in coordination with the [Posse Foundation](#)
- 2017 **Co-organizer**, *Synthesis Meeting for [2012 Grantees](#)*, Howard Hughes Medical Institute, Chevy Chase, MD, April 2017
- 2015-2016 **Secretary**, Division of Evolutionary Developmental Biology, Society for Integrative and Comparative Biology
- 2015-2016 **Program Director**, HHMI Undergraduate Science Education grant to Bryn Mawr College

PROFESSIONAL DEVELOPMENT

- 2024 *Regional Workshop* (one day), Partnership for Undergraduate Life Sciences Education (PULSE), Wistar Institute, Philadelphia
- 2022 *STEM Leadership Institute* (four days), Project Kaleidoscope (PKAL), sponsored by the American Association of Colleges and Universities (AAC&U)
- 2017 *Departmental Chair Workshop* (one day), Pennsylvania Consortium for the Liberal Arts (PCLA), Franklin & Marshall College, Lancaster, Pennsylvania
- 2012-2011 *[EvoCI toolkit: concept inventories to assess conceptual understanding of evolution](#)* working group (four 4-day meetings), National Evolutionary Synthesis Center (NESCent), Durham, North Carolina
- 2001 *From Embryology to EvoDevo* (one week), Dibner Seminar in the History of Biology, Marine Biological Laboratory, Woods Hole, Massachusetts
- 1997 *Embryology Course* (six weeks), Marine Biological Laboratory, Woods Hole, Massachusetts
- 1994 *Mass Extinction* (one week), Dibner Seminar in the History of Biology, Marine Biological Laboratory, Woods Hole, Massachusetts

SOCIETY MEMBERSHIPS

- 2015-pres Pan-American Society for Evolutionary Developmental Biology
- 2000-pres Society for Integrative and Comparative Biology
- 1999-pres Society for Developmental Biology
- 2000-2016 Genetics Society of America