

# Rebecca M. Price

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## Education

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### The University of Chicago, Department of Geophysical Sciences

Ph.D., December 2003. The function, macroevolution and macroecology of internal ornamentation in neogastropods.

M.S., June 1999.

### University of Washington, Seattle, Department of Zoology

B.S., August 1997.

## Professional Experience

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Professor. Interdisciplinary Arts and Sciences, University of Washington, Bothell (UWB) 2018-present.

Associate Professor. Interdisciplinary Arts and Sciences, University of Washington, Bothell (UWB) 2013-2018.

Assistant Professor. Interdisciplinary Arts and Sciences, University of Washington, Bothell (UWB) 2006-2013.

Adjunct Curator. Department of Paleontology, Burke Museum of Natural History and Culture. January 2007-present.

Visiting Professor. Department of Biology, Elizabeth City State University, Elizabeth City North Carolina (ECSU) Spring 2006.

SPIRE Postdoctoral Fellow. Institute for Science Learning, University of North Carolina, Chapel Hill. January 2004 - July 2006. Advisor: William M. Kier.

## Honors

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eLearning Fellow, UW Bothell Stipend Program. 2015-16.

Scholar, UW Royalty Research Fund. 2014.

Sabbatical leave, Autumn, 2013.

Winner, AAAS *Science* Prize for Inquiry-Based Instruction, 2011.

Nominee, Distinguished Teaching Award, UWB. 2011.

Fellow, Initiative for Community-Based Learning and Scholarship, UWB. 2007-2008.

## Research

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### Peer-Reviewed Publications

**Price RM**, Kantrowitz-Gordon I, Gordon SE. 2018. Biomedical postdoctoral fellows' discourses on scientific identity. *CBE-Life Sciences Education*. 17: ar29. DOI: 10.1187/cbe.17-08-0177

**Price RM** and Perez KE. 2018. Many paths towards discovery: a module for teaching how science works. *Journal of College Science Teaching*. 47: 78-87.

Ward SJ, **Price RM**, Davis K, Crowther GJ. Songwriting to learn: How high school science fair participants use music to communicate personally relevant scientific concepts. *International Journal of Science Education, Part B: Communication and Public Engagement*. DOI: 10.1080/21548455.2018.1492758.

Martinková P, Drabinová A, Liaw Y-L, Sanders EA, McFarland JL, **Price RM**. 2017. Using DIF analysis to reveal potential equity gaps in conceptual assessments. *CBE-Life Sciences Education*. 16: rm2. DOI:10.1187/cbe.16-10-0307

- McFarland JL, **Price RM**, Wenderoth MP, Martinková P, Cliff W, Michael J, Modell H, Wright A. 2017. Development and validation of the Homeostasis Concept Inventory. *CBE-Life Sciences Education*. 16: ar35. DOI:10.1187/cbe.16-10-0305
- Price RM** and Perez KE. 2016. Beyond the adaptationist legacy: updating our teaching to include a diversity of evolutionary mechanisms. *American Biology Teacher*. 78: 101-108. DOI: 10.1525/abt.2016.78.2.101
- Price RM**, Pope DS, Abraham JK, Maruca S, Meir E. 2016. Improving students' understanding of genetic drift and their ability to correct misconceptions: the positive impact of a computer-based simulation. *Evolution: Education & Outreach*. 9: ar8. DOI: 10.1186/s12052-016-0059-6
- Price RM**, Andrews TM, McElhinny TL, Mead LS, Abraham JK, Thanukos A, Perez KE. 2014. The Genetic Drift Inventory: a tool for measuring what undergraduates have mastered about genetic drift. *CBE-Life Sciences Education*. 13(1), 65-75. DOI: 10.1187/cbe.13-08-0159
- Abraham JK, Perez KE, **Price RM**. 2014. The Dominance Concept Inventory: a tool for assessing undergraduate student alternative conceptions about dominance in Mendelian and population genetics. *CBE-Life Sciences Education*. 13(2), 349-358. DOI: 10.1187/cbe.13-08-0160
- Price RM**. 2013. Natural selection is a sorting process: what does that mean? *American Biology Teacher*. 75(2): 130-132. DOI: 10.1525/abt.2013.75.2.11
- Hiatt A, Davis GK, Trujillo C, Terry M, French DP, **Price RM**, Perez KE. 2013. Getting to evo-devo: concepts and challenges for students learning evolutionary developmental biology. *CBE-Life Sciences Education*. 12(3): 494-508. DOI: 10.1187/cbe.12-11-0203.
- Perez KE, Hiatt A, Davis GK, Trujillo C, French DP, Terry M, **Price RM**. 2013. The EvoDevoCI: A Concept Inventory for Gauging Students' Understanding of Evolutionary Developmental Biology. *CBE-Life Sciences Education*. 12(4):665-675. DOI:10.1187/cbe.13-04-0079
- Price RM**. 2012. The influence of emersion on the rate at which *Nucella lamellosa* consumes prey in the laboratory. *American Malacological Bulletin*. 30(2): 255-259.
- Price RM**. 2012. How we got here: evolutionary changes in skull shape in humans and their ancestors. *American Biology Teacher*. 74(2): 106-110. DOI: 10.1525/abt.2012.74.2.8
- Andrews TM, **Price RM**, Mead LS, McElhinny TL, Thanukos A, Perez KE, Herreid CF, Terry DR, and Lemons PP. 2012. Biology undergraduates' misconceptions about genetic drift. *CBE-Life Sciences Education*. 11: 248-259. DOI: 10.1187/cbe.11-12-0107.
- Carnell R and **Price RM**. 2012. Global Climate Change: What does it look like? *National Center for Case Study Teaching in Science*, from [http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case\\_id=624&id=624](http://sciencecases.lib.buffalo.edu/cs/collection/detail.asp?case_id=624&id=624)
- Price RM**. 2011. Performing evolution: role-play simulations. *Evolution: Education & Outreach*. 4: 83-94. DOI: 10.1007/s12052-010-0300-7.
- Price RM**, Valdés A, and Gosliner TM. 2011. Phylogeny of the *aperta* clade in the genus *Philine* (Gastropoda: Opisthobranchia). *Veliger*. 51: 1-58.
- Price RM**, Rosypal AC, Powell T, and Kern B. 2008. Adapting an annual research symposium to recruit under-represented minorities to post-college education. *Journal of College Science Teaching*. 38(2): 49-53.
- Price RM**. 2003. The columellar muscle of neogastropods: muscle attachment and the function of columellar folds. *Biological Bulletin*. 205: 351-366. Stable URL: [www.jstor.org/stable/1543298](http://www.jstor.org/stable/1543298)
- Jablonski D, Roy K, Valentine JW, **Price RM**, and Anderson PS. 2003. The impact of the Pull of the Recent on the history of marine diversity. *Science*. 300: 1133-1135. DOI: 10.1126/science.1083246.

## In press

Schindler AG and **Price RM**. Bad Science: Exploring the unethical research behind a putative memory supplement. *CourseSource*.

## Other scholarly work

**Price RM**. 2018. Research and biology education. UW Bothell Office of Digital Learning & Innovation Blog. <https://uwbdli.com/2018/08/17/research-and-biology-education/>

Coffman CR, **Price RM**. 2018. Teaching scientifically. [Annotations of 2017. Brian A. Couch BA, Brown TL, Schelpat TJ, Graham MJ, Knight JK. Scientific Teaching: Defining a Taxonomy of Observable Practices. *CBE—Life Sciences Education*. 14, 1-12. <http://www.ascb.org/files/annotations/defining-taxonomy-07-2018.html>]

Dolan EL, **Price RM**, Coffman CR. 2018. Developing an Instrument. [Annotations of Hanauer DI, Dolan EL. 2014. The Project Ownership Survey: Measuring Differences in Scientific Inquiry Experiences. *CBE-Life Sciences Education*. 13, 149-158. doi: 10.1187/cbe.13-06-0123.] <http://www.ascb.org/files/annotations/developing-instrument-02-2018.html>

**Price RM**. 2017. Video feedback for students. UW Bothell Learning Technologies Blog. <http://depts.washington.edu/etuwb/ltblog/?p=5649>

**Price RM**. 2016. A Guest Post from Dr. Rebecca Price: Important Learning Gains from Genetic Drift and Bottlenecked Ferrets. <http://simbio.com/blog/post/a-guest-post-dr-rebecca-price>

**Price RM**. 2014. Gearing up to jump: annotations and teaching materials for “Interacting gears synchronize propulsive leg movements in a jumping insect” by Malcolm Burrows and Gregory Sutton. *Science in the Classroom*. <http://www.scienceintheclassroom.org/research-papers/gearing-jump>

**Price RM** and Waters SM. 2014. Analyzing datasets in ecology and evolution to teach the nature and process of science. *CUREnet: course-based Undergraduate Research Experiences*. <https://curenet.cns.utexas.edu/projects/analyzing-datasets-ecology-and-evolution-teach-nature-and-process-science>

Crowther GJ and **Price RM**. 2014. Re: Misconceptions Are “So Yesterday!” *CBE-Life Sciences Education*. 13(1), 3-5. DOI:10.1187/cbe.13-11-0226

**Price RM**. 2012. How we got here: an inquiry-based activity about human evolution. *Science*. 338: 1554-1555. DOI: 10.1126/science.1215221.

**Price RM**. 2011. Introducing the nature of science through a required research-based course. *CUR Q on the Web*. 32: 5-6.

Droege J, Kochhar-Lindgren G, Leadley S, **Price RM**, Rosenberg BR, and Tippens N. 2008. University of Washington Bothell. In A. M. Griffin & J. Romm (Eds.), *Exploring the evidence, Vol. IV: Reporting research on first-year seminars* (pp. 83-87). Columbia, SC: University of South Carolina, National Resource Center for The First-Year Experience and Students in Transition. Stable URL: [http://www.sc.edu/fye/resources/fyr/pdf/MExpEvid\\_IV.pdf](http://www.sc.edu/fye/resources/fyr/pdf/MExpEvid_IV.pdf)

**Price RM**. 2002. Columellar folds-why are they there? *American Conchologist*. 30: 8-9.

**Price RM**. 2001. Review of Ancient Invertebrates and Their Living Relatives by Harold L. Levin. *Journal of Geology*. 110(1): 122.

## Funded grants

STEP Forward: a university-science center partnership through which postdocs communicate science with the general public and policymakers. Co-PIs Salwa Al-Noori (UWB: STEM); Eve Klein, Marley Jarvis (Pacific Science Center). Submitted to Burroughs Wellcome Fund, Career Guidance for Trainees, 2017-2018, \$48,000.

Principal Investigator. Co-PIs Tyler Fox and Amy Lambert. UWB IAS Research Interest Group, Identifying Overlaps in Research Questions for Teaching Science, Art, and STS, 2016-2017, \$1,500.

Principal Investigator, UW Royalty Research Fund, Setting the stage for better evolution education: exploring the efficacy of modules aimed to teach the nature and process of science and genetic drift, 2013-2014, \$4,596.

Principal Investigator (with Kathryn Perez), National Evolutionary Synthesis Center Working Group, EvoCI toolkit: concept inventories to assess conceptual understanding of evolution. 2010-2012.

Principal Investigator, Teaching & Scholarship Enhancement Project, UWB, The effect of tidal emersion and temperature on growth in a marine snail. 2010, \$5000

Principal Investigator, Teaching & Scholarship Enhancement Project, UWB, Revealing multiple environmental causes of shell growth and repair. 2008-2009, \$9992

Principal Investigator, Collaborative Undergraduate Research Program, UWB, The energetic costs of shell repair and shell growth: an authentic research experience. 2008, \$2000

Principal Investigator, Collaborative Undergraduate Research Program, UWB, Launching a student working group by studying shell repair. 2007, \$2000

Principal Investigator, NSF Doctoral Dissertation Improvement Grant, The macroevolutionary consequences of a neogastropod adaptation. 2000, \$9992

### Talks (|| invited)

**Price RM, Coffman CR.** 2018. *CBE-Life Sciences Education's "Anatomy of an Education Study"*: annotating articles to introduce biology education research to a larger audience. Society for the Advancement of Biology Education Research, Minneapolis, MN.

Gordon SE, and Kantrowitz-Gordon I. 2017. Competing discourses of scientific identity among postdoctoral fellows in the biomedical sciences. Society for the Advancement of Biology Education Research, Minneapolis, MN.

||**Price RM.** 2018. Curiosity Cabinets. Arts + Science Knowledge Building and Sharing in the XXI Century ([ASKXXI](#)), UW Bothell.

||**Price RM.** 2018. Science Teaching Experience for Postdocs (STEP): Program Overview. Postdocs' Monthly Meetings, Department of Microbiology, UW and Seattle Children's Research Institute.

**Price RM, Gordon SE, and Kantrowitz-Gordon I.** 2017. Competing discourses of scientific identity among postdoctoral fellows in the biomedical sciences. Society for the Advancement of Biology Education Research, Minneapolis, MN.

||**Price RM and Herron JC.** 2017. Improving Student Understanding of Genetic Drift. Webinar hosted by SimBio, <https://simbio.com/>.

**Price RM and Perez KE.** 2017. Helping students recognize the complex and iterative nature of science. Society for the Advancement of Biology Education Research, West. Irvine, CA.

**Price RM, Pope DM, Abraham JK, Maruca S, Meir E.** 2016. Efficiently and effectively teaching genetic drift through hands on data analysis in a computer simulation. Society for the Advancement of Biology Education Research, Minneapolis, MN.

||**Price RM.** 2015. Contemporary science education: goals and challenges. Santa Fe Institute.

||**Price RM.** 2015. What do biology majors know about nonadaptive evolution? And how can we tell? Department of Biological Science, California State University Fullerton.

||**Price RM.** 2015. The STEP Program: Insights from mentoring postdocs about active learning. Catalyst Center for the Advancement of Research in Teaching and Learning Math and Science, California State University Fullerton.

||**Price RM and Perez KE.** 2015. Strategies for assessing what biology majors know about nonadaptive evolution. In Organized Oral Session: Student learning and understanding in ecology and evolution: Development and use of assessment tools to guide undergraduate education reform. The Ecological Society of America Annual Meeting. Baltimore, MD.

||**Price RM, Pope D, Abraham JK [presenter], Maruca S, Meir E.** 2015. Assessment of a virtual laboratory for teaching genetic drift. In Organized Oral Session: Student learning and understanding in ecology and evolution: Development

and use of assessment tools to guide undergraduate education reform. The Ecological Society of America Annual Meeting. Baltimore, MD.

Perez KE and **Price RM**. 2015. The echoes of an adaptationist legacy: (Not) teaching non-adaptive evolution. 118th Annual Meeting of the Texas Academy of Science, Science Education Section. San Antonio, TX.

**Price RM** and Andrews TC. 2014. Identifying students' misconceptions about genetic drift and using them to improve instruction. In Education Symposium—Assessing Student Understanding of Evolution. The Evolution Conference: Joint Meeting of the Society for the Study of Evolution, Society of Systematic Biologists, and the American Society of Naturalists. Raleigh, North Carolina.

**Price RM** and Perez KE. 2014. Can teaching nonadaptive mechanisms of evolution improve understanding of natural selection? Lessons learned from developing concept inventories about evolution. Society for the Advancement of Biology Education Research, Minneapolis, MN.

Hiatt A, French D, Perez K, **Price RM**, Davis G, Terry M. 2014. The EvoDevoCI: A new measure of evolutionary understanding. National Association of Biology Teachers. Atlanta, GA.

**Price RM**. 2012. Good question! Using students' prior knowledge to teach evolution. 6th Biennial National Education Research Conference: Integrating Science and Mathematics Education Research into Teaching: Knowledge of Student Thinking. The Maine Center for Research in STEM Education (RiSE Center). University of Maine, Orono, Maine.

**Price RM**. 2012. You've almost got it...assessing and improving how students understand evolution. 6th Biennial National Education Research Conference: Integrating Science and Mathematics Education Research into Teaching: Knowledge of Student Thinking. The Maine Center for Research in STEM Education (RiSE Center). University of Maine, Orono, Maine.

**Price RM**. 2012 Answering big questions about evolution: changes in skull shape in humans and their ancestors. Northwest Biology Instructors' Organization. Everett Community College, Everett, WA.

**Price RM**, Andrews TM, Mead LS, McElhinny TL, Thanukos A, Perez KE, Herreid CF, Terry DR, and Lemons PP. 2012. Misconceptions that biology undergraduates have about genetic drift. Society for the Advancement of Biology Education Research, Minneapolis, MN.

**Price RM** and Perez KE. 2012. Using concept inventories in biology classrooms. SPIRE Postdoctoral Fellowship Program. University of North Carolina Chapel Hill.

Hiatt A, Perez KE, Davis G, Terry M, Trujillo C, French D, **Price RM**. 2012. Evo-devo: target concepts and students' challenges. National Association of Biology Teachers, Dallas, TX.

Hiatt A, Perez KE, Davis G, Trujillo C, Terry M, **Price RM**. 2012. Evo-Devo in the classroom: target concepts and students' challenges. 1st Joint World Congress on Evolutionary Biology, Ottawa, Canada.

Perez, KE, **Price RM**. 2012. Concept inventories to assess student understanding of evolution: genetic drift, population-thinking and evo-devo. 1st Joint World Congress on Evolutionary Biology, Ottawa, Canada.

**Price RM**. 2011. Elevated sea water temperatures could result in rapid local adaptation of an intertidal predator. Paper presented at the American Malacological Society, Pittsburgh, PA.

**Price RM**. 2011. Elevated sea water temperatures could result in rapid local adaptation of an intertidal predator. Paper presented at the SICB Annual Meeting & Exhibition. Society of Integrative and Comparative Biology, Salt Lake City, UT.

**Price RM**. 2010. Elevated temperatures have a minimal effect on growth in *Nucella lamellosa*. Paper presented at the American Malacological Society, San Diego, CA.

**Price RM** and Elahi R. 2010. Emersion limits short term growth rates in intertidal *Nucella lamellosa*. Paper presented at the SICB Annual Meeting & Exhibition, Seattle, WA.

- ||**Price RM.** 2007. Finding functions in fossils: how paleobiologists decipher the lifestyles of extinct animals. Northwest Paleontological Association.
- ||**Price RM.** 2005. Trade-offs in shells. Elizabeth City State University, Shaw University, and Winston Salem State University, North Carolina.
- ||**Price RM.** 2005. Measuring biodiversity: understanding discordant measurements in marine snails. North Carolina Central University, North Carolina Agricultural and Technical State University, University of North Carolina at Pembroke, and Johnson C. Smith University. North Carolina.
- Price RM.** 2004. Why neogastropod shell ornamentation does not correlate with latitude in the North Eastern Pacific. Paper presented at the SICB Annual Meeting & Exhibition, San Diego, CA.
- Price RM.** 2003. Ornamentation in neogastropods is surprisingly constant in the northern hemisphere of the Eastern Pacific. Paper presented at the SICB Annual Meeting & Exhibition, New Orleans, LA.
- Price RM.** 2003. The shapes of columellar folds are established early in the evolutionary history of fusiform neogastropods. Paper presented at the American Malacological Society, Ann Arbor, MI.
- Price RM.** 2002. Constant function or random evolution: changes in the apertural ornamentation of fusiform neogastropods since the Cretaceous. Paper presented at the SICB Annual Meeting & Exhibition, Toronto, Canada.
- Jablonski D, Roy K, Valentine JW, **Price RM**, and Anderson PS. 2002. Pull of the Recent? What pull of the Recent? An analysis of marine bivalves. Paper presented at the Geological Society of America Denver, CO.
- Price RM.** 2002. Is there a functional relationship between columellar folds and the columellar muscle in neogastropods? Paper presented at the American Malacological Society, Charleston, SC.
- Price RM.** 2001. Evaluating a putative neogastropod adaptation: is there a functional relationship between columellar folds and the columellar muscle? Paper presented at the SICB Annual Meeting & Exhibition, Anaheim, CA.
- Price RM.** 2001. Using constructional data to detect convergence: an underutilized approach to studying adaptation in the fossil record. Paper presented at the North American Paleontological Convention.
- Price RM.** 2000. Columella muscle attachment in *Leucozonia nassa*: implications for the interpretation of columellar fold function. Paper presented at the American Malacological Society/Western Society of Malacologists, San Francisco, CA.

### [UW talks](#)

- ||**Price RM.** 2018. Perusall. eLearning Symposium, UWB.
- ||**Price RM.** 2017. BioEd reform: why, how, where. STEM Ed Retreat, UWB.
- Price RM.** 2010-present. Biology Education Research Group, UW Seattle.
- Teaching the complexity of science (2016); Motivation (2016); Observing instructors (with T Stawicki. 2014); Selection misconceptions found in microbiology textbooks (with S Magnus, 2013); “How we got here” an Inquiry-Based Instruction module from *Science* (2013); Undergraduate students’ misconceptions about genetic drift (2012); Attitudes towards learning science in students (with G Ottinger, 2011); Assessing the scientific reasoning skills of students in introductory biology at UW Bothell (2010).
- ||**Price RM.** 2016. Magnitude in evolution, In *The Art and Science of Thinking the Unthinkable*, organized by A Lambert and B Burgett, IAS Research Colloquium. School of Interdisciplinary Arts and Sciences, UWB.
- ||**Price RM.** 2015. What do students know? Teaching Scholars Program, UW School of Medicine.
- ||**Price RM.** 2015. Cover Letters. Hit the Ground Running, Department of Physiology and Biophysics, UW School of Medicine.
- ||**Price RM.** 2011. Stress and sea snail size: submersion, selection and students. Research-In-Progress Seminars, UWB.

**Price RM.** 2014. What Do You Know about Evolution? Assessing Undergraduate Students' Conceptions. IAS Research Colloquium. School of Interdisciplinary Arts and Sciences, UWB.

**Price RM.** 2013. Using inquiry about the fossil record to teach fundamental, but undervalued evolutionary concepts. PaleoLunch, UW Seattle.

\*Mangus S and **Price RM.** 2012. I select you naturally: how an upper division textbook may unintentionally reinforce naïve conceptions about evolution. 15th Annual Undergraduate Research Symposium at the UW, Seattle, WA.

\* Undergraduate author

**Price RM.** 2009. Emersion limits short term growth rates in intertidal *Nucella lamellosa*. UWB Research Symposium.

\*Carnell R and **Price RM.** 2009. Time travel and climate change: a learning unit for high school students. Paper presented at the 12th Annual Undergraduate Research Symposium at the UW, Seattle, WA.

\* Undergraduate author

**Price RM,** Gunn E, Oyarzun F, Hillyard C. 2008. Generalities about learning styles and the scientific method. Project in Interdisciplinary Pedagogy, UWB.

### Conference posters (**Presenter**)

**Al-Noori S,** Ma E, McCullough E, **Price RM.** STEP Forward: Science Communication With the Public Through Hands-on Engagement. 2018 14<sup>th</sup> Annual Teaching & Learning Symposium, University of Washington, Seattle, WA.

**Stone AEL,** Al-Noori S, Ramakrishnan S, Ma EY, **Price RM.** STEPping out of the lab—the Science Teaching Experience for Postdocs (STEP) program. 2018 National Postdoctoral Association 16<sup>th</sup> Annual Conference, Cleveland, OH.

Alvarez V, **Edwards K,** Mahoney WM, Morales C, Moritz CT, **Price RM,** Risques R. Portfolio of Postdoc-to-Faculty Programs at University of Washington. 2018 National Meeting for the NSF Alliances for Graduate Education and the Professoriate, University of California, Berkeley, Berkeley, CA

**Perez KE** and **Price RM.** 2018. Assessment of a Set of Activities that Teach How Science Works. UTRGV Teaching Excellence Symposium, University of Texas Rio Grande Valley. Edinburg, TX.

Perez KE and **Price RM.** 2016. Assessment of a set of activities that teach the complexity of the nature and process of science. Society for the Advancement of Biology Education Research, Minneapolis, MN.

**Price RM** and Perez KE. 2015. Updating the way we teach evolution to include a diversity of evolutionary mechanisms more thoroughly. Gordon Research Conference on Undergraduate Biology Education Research. Lewiston, ME.

**Abraham JK,** Meir E, Perez KE, and **Price RM.** 2012. Development of the dominance relationships concept inventory (DRCI). Transforming Research in Undergraduate STEM Education (TRUSE). St. Paul, MN.

**Hiatt A,** Perez KE, Davis G, Terry M, Trujillo C, French D, and **Price RM.** 2012. Evaluating student misconceptions in evo-devo. Evo-Devo IGERT Symposium, Portland, OR.

**Price RM** and Scotchmoor JG. 2011. Does metacognitive reflection on the process of science improve student understanding and acceptance of evolution? An experimental design. Society for the Advancement of Biology Education Research, Minneapolis, MN.

**Price RM,** Perez KE, Andrews TM, Abraham JK, Davis G, Fisher KM, Mead LS, Smith MU, Terry M, and Thanukos A. 2011. The development of concept inventories to assess student understanding of random processes in evolution, population thinking and evo-devo. Society for the Advancement of Biology Education Research, Minneapolis, MN.

**Price RM.** 2011. Teaching natural selection through performance. SICB Annual Meeting & Exhibition, Salt Lake City, UT.

\***Curta LA,** **Davis AD,** Elahi R, and **Price RM.** 2009. Exposure to air and reduced food supply limit short-term growth rates in *Nucella lamellosa*. American Malacological Society, Ithaca, NY.

\* Undergraduate authors

\*Williams RM and **Price RM**. 2005. A mathematical model for exploring the trade-offs in energy associated with growing gastropod shells. SICB Annual Meeting & Exhibition, Orlando, FL.

**Price RM**. 2004. Fun with shells: using the ecology of sea shells to introduce statistical programming. IRACDA Retreat, Atlanta, GA.

## UW

**Al-Noori S, Ma EY, McCullough EA, Price RM**. 2018. STEP Forward: Science Communication with the Public through Hands-on Engagement. UW Teaching and Learning Symposium, Seattle, WA.

**Sadler SR and Price RM**. 2016. The Increase in Interdisciplinarity of Life Science Faculty Positions during Economic Instability. 19th Annual Undergraduate Research Symposium at the UW, Seattle, WA.

\* Undergraduate author

**Price RM, Gordon SE, and Kantrowitz-Gordon I**. 2016. Biomedical Postdoctoral Fellows' Discourses on Scientific Identity. UW Teaching and Learning Symposium, Seattle, WA.

**Price RM**. 2015. Training Biomedical Postdocs in State-of-the-art Teaching Strategies. UW Teaching and Learning Symposium, Seattle, WA.

**Price RM, Gordon SE, and Kantrowitz-Gordon I**. 2015. Photo-elicitation Celebrates Postdoctoral Success in *Hit the Ground Running*. UW Teaching and Learning Symposium, Seattle, WA.

**Price RM and EvoCI Toolkit Working Group**. 2014. New instruments for measuring how biology undergraduates understand evolution. UW Teaching and Learning Symposium, Seattle, WA.

**Price RM, Andrews TM, Mead LS, McElhinny TL, Thanukos A, Perez KE, Herreid CF, Terry DR, and Lemons PP**. 2012. Expanding our understanding of the misconceptions that biology undergraduates have about evolution. UW Teaching and Learning Symposium, Seattle, WA and UWB Teaching and Learning Symposium, Bothell WA.

**Price RM**. 2011. Teaching natural selection through performance. UWB Teaching and Learning Symposium, Bothell WA.

**Price RM**. 2011. Scientific practice in an inquiry-based activity that explores changes in skull shape in humans and their ancestors. UW Teaching and Learning Symposium, Seattle, WA and UWB Teaching and Learning Symposium, Bothell WA.

**Price RM**. 2010. Performing evolution: an artistic exploration of natural selection and the scientific method. UW Teaching and Learning Symposium, Seattle, WA.

**Davis AD, Curta LA, Podeszwick M, and Price RM**. 2009. The effect of exposure to air on an Intertidal marine snail. 12th Annual Undergraduate Research Symposium at the University of Washington, Seattle, WA.

\* Undergraduate authors

## Grant evaluation

Evaluator for the National Science Foundation grant, Award Number DUE-1043443: Defining and Assessing the Core Principles for Undergraduate Physiology. PIs: Jenny McFarland, William H. Cliff, Joel A. Michael, Harold I. Modell, Ann W. Wright. 2015.

## Press coverage of scholarship

McCartney, Melissa. 2018. A (dis)course in postdoc identities. *Science* 360: 977-8.

<http://science.sciencemag.org/content/360/6392/977.6>

Helping postdocs step up to teaching, University of Washington Bothell. 2017. <https://www.uwb.edu/news/february-2017/teaching-experience>



Joint Institute for the Study of the Atmosphere and Ocean, University of Washington. 2016. Student projects from *The Air We Breathe: Connecting Pollution, Climate, and Health*, a [STEP](#) course taught by Adriana Bailey, Sam Potter, and Pam Roqué, [http://www.jisao.washington.edu/education/student\\_articles](http://www.jisao.washington.edu/education/student_articles)

McCartney, Melissa. 2016. Editor's Choice: The evolution of teaching evolution. *Science* 352: 6283. [http://science.sciencemag.org/content/352/6283/305.5.full?utm\\_campaign=email-sci-ec&et rid=33806131&et cid=417698](http://science.sciencemag.org/content/352/6283/305.5.full?utm_campaign=email-sci-ec&et rid=33806131&et cid=417698)

Genetics Society of America. 2014. Issue Highlights in *CBE-Life Sciences Education (LSE)*. The Genetics concept assessment: a new concept inventory for gauging student understanding of genetics, *CBE Life Sci Educ* vol. 7 no. 4 422-430. Michelle K. Smith, William B. Wood, and Jennifer K. Knight. The Dominance Concept Inventory: a tool for assessing undergraduate student alternative conceptions about dominance in Mendelian and population genetics, *CBE Life Sci Educ* vol. 13 no. 2 349-358. Joel K. Abraham, Kathryn E. Perez, and Rebecca M. Price. <http://www.genetics.org/content/198/1/NP.full#sec-2>

University of Washington. 2014. Rebecca Price: Teaching with open-ended inquiry. In *Innovators Among Us: Preparing Students for Life after Graduation. Leading Change in Public Higher Education: a Provost Report Series*. page 4. [http://engage.washington.edu/site/MessageViewer?dlv\\_id=135574&em\\_id=138081.0](http://engage.washington.edu/site/MessageViewer?dlv_id=135574&em_id=138081.0)

Venkatraman, V. November 19, 2013. A Career as a College Science Teacher. *Science Careers (from the journal Science)*. Mention of the Future Faculty Fellows Teaching Apprenticeship (now Science Teaching Experience for Postdocs). [http://sciencecareers.sciencemag.org/career\\_magazine/previous\\_issues/articles/2013\\_11\\_19/caredit.a1300254](http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2013_11_19/caredit.a1300254)

American Association for the Advancement of Science. 2012. Science magazine prize goes to evolution class that starts with baby chimp's face: Students make hypotheses about man's origins, then test their own ideas. [http://www.eurekalert.org/pub\\_releases/2012-12/aaft-mp121412.php](http://www.eurekalert.org/pub_releases/2012-12/aaft-mp121412.php)

University of Washington, Bothell. 2012. University of Washington Professor Rebecca Price wins *Science* Prize. <https://www.youtube.com/watch?v=eX62S4vsEWA>

## Teaching

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### Courses (¶designed; §50% online, 50% face-to-face hybrid)

#### UW

Advanced Seminar in Biology (B BIO 485). W 2013.

¶Discovery Core I: Eureka! Art, Biology, and Creativity (BCUSP 104C/110B). Au 2008, 2009 with Perigo K.

¶Discovery Core I: Growing Things: The Idea of Development in Plants, Animals and People (BCUSP 104C/110B). Au 2006 with Rosenberg B. Au 2007 with Perigo K.

¶Evolution (B BIOL 466). W 2010, W 2011.

¶The History of Life (BIS 381). Sp 2007, W 2008, Sp 2010.

Introductory Biology II: Cell biology, molecular biology and development (B BIOL 200). W 2008.

¶Investigative Biology: Experiential Evolution (B BIOL 495). Sp 2011.

Portfolio Capstone (BIS 499). Sp 2014, Sp 2015, Sp 2016, Sp 2017.

Science Methods and Practice (BES 301). W 2009, W Au 2010, Au 2011, Au 2012, §Au 2016.

*Redesigned as a classroom-based undergraduate research experience in W 2010*

¶Scientific Journeys: The Universe, Earth and Life (BCUSP 140). W 2007.

Seminar in Biology (STEP Course, BIS 285/ B BIO 285). W 2014, W 2015, W 2016, W 2017.

Senior Seminar in Cellular, Molecular and Developmental Biology (UW Seattle, STEP Course, BIOL 485) W Sp Su 2015, W Sp Su 2016, W Sp Su 2017.

¶Understanding evolution. Teachers as Scholars Seminar, Simpson Center for the Humanities, University of Washington. 2008. with Homchick J, graduate assistant.

¶The Visual Art of Biology (BIS 382). Sp 2007, 2008, W 2009, §Su 2014, §Au 2015.

### Other institutions

Biology for Majors II, Lecture and Laboratory. Elizabeth City State University, North Carolina. Sp 2006.

Ecology Lab. Elizabeth City State University, North Carolina. with Frontera-Suau R. Sp 2006.

¶History of Life. Graham School of General Studies, University of Chicago, Summer 2001.

### Undergraduates mentored

Sadler, SR. 2016 increase in interdisciplinarity of life science faculty positions during economic instability and Interdisciplinarity in advertisements of life science faculty positions in *Science* since 2003.

Mangus S. 2012. Misconceptions about evolution in an upper division microbiology textbook.

Carnell R. 2008. A case study about global climate change.

Collett K. 2008. The natural history and cultural history of mushrooms.

Heuschkel V. 2008. The BioArt of American Indians at the UWB library. 2007 (2 credits). The BioArt of Robert Mapplethorpe.

Storbeck E. 2007. Employing preconceptions to enhance teaching evolution in K-16.

Curta L, Davis A, and Podeszwick M. 2008-2009. How exposure to air affects shell shape in marine gastropods.

Curta L, Davis A, Jerome A, McNamee K, Podeszwick M, Schubert M and Shupe S. 2007-2008. Embedding shells in epoxy.

Hughes A, Jerome A, Nebeck K and Sibley M. 2007. Shell repair in marine snails.

Hughes A. 2007. Exploring shell growth in *Nucella lamellosa* at the Friday Harbor Laboratories.

Clark T and Pettis J, 2006. How quickly do sea snails recover from damage to their shells?

Williams RM. 2004-2005. A mathematical model to determine the volume of snail shells.

### Graduate students mentored

Hiatt A, Walker RM, and Andrews TM. 2010-2012 Graduate Student Fellows at the National Evolutionary Synthesis Center and member of the NESCent Working Group EvoCI Toolkit.

Chan, KYK. 2010-2011. Huckabay Teaching Fellow, UW Seattle.

Gunn, E. 2008-2009. Graduate Teaching Fellow in the Project for Interdisciplinary Pedagogy, IAS, UWB.

### Educational Workshops Attended

BioDiversity Scholar. Biology Department, University of Washington. 2016, 2017.

Safe Zone Training. Q Center, University of Washington. 2007, 2015.

Hybrid Course Development Institute. Fall 2012. Brockhaus A, Leppa C, Frizelle S, Porter I, Bliquez R. University of Washington, Bothell, WA.

Conceptual Assessments in Biology III. 2010. Fisher K, Williams K, and Anderson D. Point Loma Nazarene University, San Diego, CA.

- Beginning a Research Program in the Natural Sciences at a Predominantly Undergraduate Institution. 2009. Council for Undergraduate Research, Calvin College, Grand Rapids, MI.
- Performance and Pedagogy. 2007. Kochhar-Lindgren K. University of Washington, Seattle, WA.
- Computational and Mathematical Biology Workshop, sponsored by the Professional Enhancement Programs of the Mathematical Association of America. 2006. Marland E, Robeva R and Davies R, Sweet Briar College, Sweet Briar, VA.
- Effective College Teaching. 2006. Felder RM and Brent R. Presentation to the SPIRE Postdoctoral Fellowship Program, University of North Carolina, Chapel Hill, NC.
- Institutional Research and Academic Career Development Awards Retreat. 2004, 2005.
- SPIRE Teaching Workshop. Neal E. 2005. Center for Teaching and Learning, University of North Carolina—Chapel Hill, Chapel Hill, NC.
- Research on Teaching and Learning in the Sciences. Elements of and approaches to educational research. 2004. Felder RM and Brent R. Presentation to the SPIRE Postdoctoral Fellowship Program, University of North Carolina, Chapel Hill, NC.
- Student-Centered Activities for Large Enrollment Undergraduate Programs (SCALE UP) Workshop. 2004. Beichner R. North Carolina State University, Raleigh, NC.

## Service

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### Professional

- Host, Connections and Collections, in Arts + Science Knowledge Building and Sharing in the XXI Century ([ASKXXI](#)). 13 Chilean scholars who actively combining arts and science visited UWB as part of their collaboration exploring how arts, technology, and ecological sciences to explore marine and terrestrial ecology and conservation in Chile and the Pacific Northwest.
- Monitoring editor, *CBE-Life Sciences Education*, 2017-2020 (projected)
  - Includes editing annotated articles, a new feature used to introduce educational research to scholars interested in this area of research
- Discussion organizer and facilitator, Racial tension and violence affecting our classrooms. 2016. Society for the Advancement of Biology Education Research, Minneapolis, MN.
- Advisory Board, “Science in the Classroom” (<http://scienceintheclassroom.org>) by the American Association for the Advancement of Science, 2014-2017.
- NSF Reviewer, Improving Undergraduate STEM Education, 2016.
- Student/postdoc research award committee and membership committee of the Society for the Advancement of Biology Education Research, 2012.
- Judge, AAAS *Science* Competition for Inquiry-Based Instruction, 2012.
- Consultant, Understanding Science, University of California Museum of Paleontology. Nature and Process of Science for Preservice Teachers, 2012
- Consultant, Understanding Evolution, University of California Museum of Paleontology. Making an Evo Gallery, 2011
- Nominating committee, American Malacological Society, 2009
- Councilor-at-Large, American Malacological Society, 2008-2010
- Discussion leader, UNC Summer Reading Program, 2004-2005.
- Symposium Co-chair, Graduate Student Exposition, Dept. of Geophysical Sciences, Univ. of Chicago. 2000, 2001
- Panel Discussions
  - Finding Jobs. Annual Meeting of the American Malacological Society, 2006
  - What it’s like to be an assistant professor. SPIRE Postdoctoral Fellowship Program. University of North Carolina Chapel Hill, 2012
  - Getting Tenure as a Discipline Based Education Researcher. Annual Meeting of the Society for the Advancement of Biology Education Research, 2014.

- Manuscript Reviews: *American Biology Teacher*, *American Malacological Bulletin*, *Biological Bulletin*, *CBE-Life Sciences & Education*, *CourseSource*, *Evolution: Education & Outreach*, *Invertebrate Biology*, *Molluscan Research*, *Science Education*
- Outreach to preschool and elementary school visits, Girl Scouts, Navigator Scouts, tour guide welcoming high school students to college, 10 events, 1999-present.

## University of Washington

- Executive Director, Science Teaching Experience for Postdocs, 2014-present
  - Mentored 87 postdocs in 29 teaching teams since 2011
- Evaluator
  - UW Scholarship of Teaching and Learning Symposium, 2018
  - 2011-12 Huckabay Teaching Fellows, 2011
  - Library Research Award for Undergraduates, 2008
  - Royalty Research Fund, 2008, 2009, 2014
- Co-Director, Science Teaching Experience for Postdocs (formerly Future Faculty Fellows Apprenticeship), 2011-2014
- Faculty Consultant, draft of Evaluating Teaching in Promotion & Tenure Cases: Guide to Best Practices, Center for Teaching and Learning, 2016
- Facilitator, Faculty Fellows Program: Teaching Reflections, 2015, 2016
- Future Faculty Fellows Workshop, 2011 - present
  - “Mentoring” 2018
  - “How to Write a Diversity Statement,” “Academia Outside Research Universities,” 2016, 2017, 2018
  - “Balancing Job and Life,” Future Faculty Fellows Workshop, 2016, 2017
  - “What is Academia Like at a 4-yr Colleges/Primarily undergraduate institutions (PUI) and masters comprehensive universities ?” and “Application for a Job: Writing a Teaching Statement,” Future Faculty Fellows Workshop, 2015
  - “Faculty research at predominantly undergrad institutions”, Future Faculty Fellows Workshop, 2014
  - “Balancing work and home life” and “Faculty research at predominantly undergrad institutions,” Future Faculty Fellows Workshop, 2013
  - Co-Director, 2011
- Panelist, What it’s like to teach at a branch campus, Ocean Teach Journal Club, UW Seattle, 2011
- Participant, Faculty Field Tour, 2007

## UWB

- Campus Council on Promotion, Tenure and Faculty Affairs, 2016-2017; 2018-2020 (projected)
- UWB eLearning Steering Committee, 2016-present
- Committee to arrange a Flexible Teaching and Learning Classroom (redesign of DISC 252), 2015-2017
- Enhancement Project for Collegial Review of Instruction, 2016
- Bachelor of Arts Educational Studies Advisory Group, 2015-2016
- Classroom redesign conversation, proposal led by Andreas Brockhaus and Sara Frizelle, Learning Technologies, 2015
  - co-author of Super-G proposals for “Active Learning Classroom Proposal for UW1-010 and UW1-020” and “Active Learning Classroom Proposal for DISC 252” with Andreas Brockhaus, Sara Frizelle, and David M. Moehring , November 2015
- Collegial review of teaching, School of STEM
  - AY 2014-2015: Eva Ma
  - AY 2015-2016: Kristina Hillesland, Jeff Jensen
- Promotion and Tenure Review Committee, School of Nursing and Health Sciences (Christopher Wade), 2014-2015
- Facilitator, “Work/Life Balance and the Scholarship of Teaching and Learning,” New Faculty Orientation, 2014
- Instructional and Research Support Committee, 2011-2012
- Panelist
  - “Women in STEM,” *CSS 290: Special Topics, Women in STEM*. Professor Erin Hill, 2018
  - Teaching & Scholarship Enhancement Project (TSEP) competition—Keys to Success, UW Bothell, 2009

- Engaging and guiding undergraduates in research and scholarship. Faculty Roundtable, UW Bothell, 2008
- Convener, Natural Sciences Teaching Circle, 2007-2008
- Participant, Freshman Preview Day, fall 2007

#### *Workshops coordinated*

- “Assessment of Learning in Science” and “Starting the Assessment Process,” Dr. Julie Libarkin, 19 May 2011
- Conversations with students and faculty, Dr. Richard Lewontin (coordinated with Dr. Steven Collins), April 15, 2008

#### *Curriculum Development*

- Biology Task Force, UWB, 2008-2010
- Committee to propose an option in Science, Technology and Society, 2007-2008
- Mathematics and Natural Science Disappearing Task Force, 2006-07

#### **UWB: Interdisciplinary Arts and Sciences**

- Promotion Review Committee, Julie Shayne, 2018-19
- Workshop participant, Diversity and Faculty Recruitment, Scott Kurashige, Senior Advisor to the VCAA for Faculty Diversity and Initiatives. 2015, 2017
- Coordinator, Curricular Area Working Group for B.A. in Mathematics and Visual Thinking, UWB, 2016-2020
  - Member, 2014-present
- IAS Diversity Committee, 2015-17
- Collegial review of teaching
  - AY 2017-2018: Denise Vaughan
  - AY 2016-2017: S. Charusheela, Gunwha Ho, Laura Harkewicz, Adam Romero
  - AY 2015-2016: Katy Cook, Caren Crandell, Tyler Fox, Amy Lambert
  - AY 2014-2015: Carrie Bodle, Kristin Gustafson, Susan Waters
  - AY 2011-2012: Santiago Lopez, Robert Turner
  - AY 2010-2011: Cinnamon Hillyard
  - AY 2007-2008: Kari Lerum, Kory Perigo
- Promotion and Tenure Review Committee (Shauna K. Carlisle), 2016-2017
- Assessment Committee for Interdisciplinary Research, 2007, 2016
- IAS Instructional and Faculty Development Committee, 2015-16
- Course Evaluation and Student Feedback Committee, 2015
- Facilitator (with Gustafson K), IAS Faculty Workshop: Developing Your Teaching Portfolio, 2015 (spring and fall)
- Selection Committee, Project for Interdisciplinary Pedagogy, 2015
- Search Committee for an Assistant Professor in Science, Technology Studies, IAS, 2014-2015
- Promotion and Tenure Review Committee (Joe Milutis), 2014-2015
- Task Force on IAS Assessment, 2014-2015
- Personnel Committee, 2014-2016, 2017-present
- BIS 499 Capstone Portfolio Committee, UWB, 2014-present
- Curricular Area Working Group for the B.S. in Environmental Science, 2007-2014
- Affiliate, Curricular Area Working Groups for the B.S. in Environmental Science and the B.A. in Environmental Studies, 2014-present.
- IAS Program Council, UWB, 2010-2013
- Search Committee for an Assistant Professor in Science, Technology Studies, IAS, 2009-2010
- Affiliate, Curricular Area Working Group for the BA in Interdisciplinary Studies: Inter-Arts, UWB, 2007-08
- Curricular Area Working Group for the B.A. in Science Technology and Society, UWB, 2007-present
- Mathematics and Natural Science Disappearing Task Force , 2007-2008

#### **UWB: Science, Technology, Engineering and Math: Biology**

- Convener, Introductory Biology Teaching Circle, 2010-2012
- Convener, Integrative Biology Research Circle, 2010-2012

- Assessment lead, Introductory Biology Series, 2010-2012
- Workshop coordinator, "Making clickers work in your classroom," Dr. Michelle K. Smith, 26 April 2011
- Search Committee for an Assistant Professor in Biochemistry and Microbiology, S&T, 2009-2010

### **UWB: First Year Program**

- Speaker, Research in the Classroom, Center for University and Studies Program Retreat, 16 June 2009
- Speaker, Freshmen Research Experiences, Center for University and Studies Program Retreat, 18 June 2008
- Participant, CUSP mini-workshop on Quantitative Reasoning, Summer 2007
- Participant, Washington Center National Summer Institute on Learning Communities. Team leader, Gray Kochhar-Lindgren, June 2007

### **Current memberships (year joined)**

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National Association of Biology Teachers (2010); Society for the Advancement of Biology Education Research (2011, charter member).