

CURRENT POSITION

Postdoctoral Scholar Penn State University Department of Entomology 548 ASI Building University Park, PA, 16802 607-279-9132 kkb90@psu.edu @bugAdvocate www.kristenbrochu.com

EXPERTISE

Phylogenetics
Bioinformatics
Insect Diversity
Community Ecology
Microbiology
Chemical Ecology
Biology Teaching
Science Communication

SKILLS

Fluent English
Intermediate French
Beginner Spanish
Matlab
Python
R
Java
Perl
Advanced Open Water Diver

AD HOC REVIEWER

Scientific Reports
Economic Entomology
Journal of Chemical Ecology

Basic Wildlife Rehabilitation

KRISTEN K. BROCHU

EDUCATION

2012-18 PhD, Department of Entomology, Cornell University, Ithaca, New York. Advisor: Bryan Danforth Dissertation: Differential impacts of pollen quality and microbial communities on generalist and specialist bees visiting a shared food resource. 2009-11 MSc, Department of Ecology and Evolutionary Biology, University of Toronto Scarborough, Toronto, Ontario. Advisor: Nathan Lovejoy Thesis: Molecular phylogenetics of the Neotropical electric knifefish genus Gymnotus (Gymnotidae, Teleostei): biogeography and signal evolution of the trans-Andean species. < http://hdl.handle.net/1807/30525 > BSc, Wildlife Biology, Faculty of Agricultural and 2005-08

Environmental Sciences, McGill University, Montreal, Quebec.

PUBLICATIONS

Brochu K.K., van Dyke M.T., Milano N.J., Petersen J.D., 2020 McArt S.H., Nault B.A., Kessler A., and Danforth B.N. Pollen defenses negatively impact foraging and fitness in a generalist bee (Bombus impatiens: Apidae). Scientific Reports, 10: 3112. < https://doi.org/10.1038/s41598-020-58274-2 > Van Nynatten A., Janzen F.H., Brochu K., Maldonado-2019 Ocampo J.A., Crampton W.G.R., Chang B.S.W., and Lovejoy N.R. To see or not to see: molecular evolution of the rhodopsin visual pigment in neotropical electric fishes. Proceedings of the Royal Society B, 286: 20191182. < https://doi.org/10.1098/rspb.2019.1182 > Maguire D.Y., Robert K., Brochu K., Larrivée M., Buddle 2014 C.M., and Wheeler, T.A. Vertical stratification of beetles (Coleoptera) and flies (Diptera) in temperate forest canopies. Environmental Entomology, 43: 9-17. < http://dx.doi.org/10.1603/EN13056 > 2009 Brochu K., and Wheeler T.A. Systematics and ecology of the Nearctic species of Neophyllomyza (Diptera: Milichiidae). The Canadian Entomologist, 141:103-111. < http://dx.doi.org/10.4039/n09-001 >

Brochu, K.; and Danforth, B.N. (*Accepted* at *Microbial Ecology*) Microbes in the nests of a solitary specialist ground-nesting bee (*Peponapis pruinosa*) are diverse, stable, and distinct.

FORTHCOMING MANUSCRIPTS

- **Brochu, K.**; Kessler, A.; and Danforth, B.N. (*In prep* for *Oecologia*) Unique chemical signatures of floral rewards: Variation impacts specialist, but not generalist, bee foraging choices.
- **Brochu, K.**, and Williams, K. (*In prep* for *American Entomologist*) Fear and Loathing in the Classroom: How Student Attitudes About Insects Affect Learning.
- **Brochu, K.**, Maldonado-Ocampo J.A., Crampton W.G.R., and Lovejoy N.R. (*In prep* for *Proceedings of the Royal Society B*) Biogeographic evidence for electrical crypsis in a Neotropical knifefish (Gymnotiformes: *Gymnotus*).

PROFESSIONAL EXPERIENCE

2018-20	Postdoctoral Scholar, Pennsylvania State University, PA.
2011-12	Laboratory Technician, University of Toronto, ON.
2008	Databasing Contractor, Natural Resources Canada, Lyman Entomological
	Museum (LEM), QC.

MENTORED STUDENTS

Project Advisor . Ginamaria Roman, MSc Student. Pennsylvania State University, PA.
Summer Supervisor. Mila Paiva, Undergraduate. Pennsylvania State University, PA.
Graduate Career Mentor. Trey Ramsey, Master of Profession Studies Candidate in
Public Garden Leadership. Cornell University, NY.

TEACHING

2019	Guest Lecturer , <i>Pollinator Behaviour</i> , Animal Behaviour, University of the Bahamas, Nassau, New Providence, The Bahamas.
2018	Guest Lecturer, Pollinator Behaviour, Animal Behaviour, University of the Bahamas North, Freeport, Grand Bahama, The Bahamas.
2017	Guest Lecturer , <i>Insects in Art and Popular Culture</i> , Alien Empire: Bizarre Biology of Bugs, Cornell University, NY.
2017	Guest Lecturer , <i>Pollination</i> , Alien Empire: Bizarre Biology of Bugs, Cornell University, NY.
2016	Teaching Assistant, Alien Empire: Bizarre Biology of Bugs, Cornell University, NY.
2016	Guest Lecturer , Subsocial Insects, Alien Empire: Bizarre Biology of Bugs, Cornell University, NY.
2015	Teaching Assistant, Insect Diversity and Evolution, Cornell University, NY.
2015	Guest Lecturer, Phylogeny and Insect-Plant Interactions, Insect Diversity and

2015 2015	Guest Lecturer , <i>Pollinator Behavior</i> , Insect Behavior, Cornell University, NY. Teaching Assistant , Tropical Field Entomology, Cornell University, NY.
2015	Guest Lecturer, Insect Defenses, Tropical Field Entomology, Cornell University, N
2014	Teaching Assistant , Naturalist Outreach Practicum, Cornell University, NY.
2013	Teaching Assistant , Insect Phylogeny and Evolution, Cornell University, NY.
2013	Guest Lecturer, Phylogeny and Insect-Plant Interactions, Insect Phylogeny and
	Evolution, Cornell University, NY.
2011	Teaching Assistant, Plant Physiology, University of Toronto, ON.
2010	Teaching Assistant , Laboratory in Ecology and Evolutionary Biology, University of Toronto, ON.
2010	Guest Lecturer , <i>Animal Communication</i> , Laboratory in Ecology and Evolutionary Biology, University of Toronto, ON.
2009	Teaching Assistant , Laboratory in Ecology and Evolutionary Biology, University of Toronto, ON.
	Workshop Presentations
2018-20	Brochu, K. <i>Introduction to R for Statistical Research</i> (3 sessions). Workshop Presentation. Lopez-Uribe Lab Group Meeting, Pennsylvania State University, PA.
2016	Brochu, K . <i>Teaching as Research</i> . Workshop Presentation. Snodwiggs Undergraduate Entomology Club. Cornell University, NY.
2016	Brochu, K. ; and Fairbairn, F. <i>Enhancing Your Teaching with Research-Based Principles</i> . Workshop presentation. Spring University-Wide Teaching Conference, GET SET Workshop Series, Innovative Approaches in Pedagogy Certificate, Center for Teaching Excellence (CTE), Cornell University, NY.
2016	Brochu, K. ; and Zhang, Z. Enhance Your Teaching by Understanding Students' Learning Styles. Workshop presentation. GET SET Workshop Series, Understanding Undergraduate Learners Certificate, Center for Teaching Excellence (CTE), Cornell University, NY.
2015	Brochu, K. ; and Leraul B. <i>Creating a Learning-Centered Syllabus</i> . Workshop presentation. GET SET Workshop Series, Course Design Certificate, Center for Teaching Excellence (CTE), Cornell University, NY.
2004	Brochu, K. ; and Lee, H. <i>Sustainable Water Use – Let your flag fly!</i> Workshop presentation. United Nations Environment Programme (UNEP) Tunza International Children's Conference on the Environment. New London, CT.
	CONFERENCE & SYMPOSIUM PRESENTATIONS
2019	Brochu, K. <i>Toxic Rewards: Assessing how pollen defenses can shape plant-pollinator interactions.</i> Invited Oral Presentation. Penn State University Department of Entomology Seminar Series. University Park, PA.
2019	Brochu, K.; and López-Uribe, M. Bee Foraging Patterns on Domesticated Crops and their Wild Relatives. Oral Presentation. 2019 Annual Meeting of the Entomological Society of America. St. Louis, MO.
2019	Brochu, K. The Influence of Chemistry on Pollinator Foraging Behaviour in Cucurbit Systems. Invited Oral Presentation. 2019 Eastern Branch Meeting of the Entomological Society of America. Blacksburg. VA

Evolution, Cornell University, NY.

- Brochu, K.; and Danforth B.N. Love it or leave it: Digestive adaptations of specialist and generalist bees on cucurbits. Oral Presentation. 2018 Joint Annual Meeting of the Entomological Society of America and the Entomological Society of Canada. Vancouver, BC.
- **Brochu, K.**; and De Luca, P.D. *A comparison of insect diversity between Grand Bahama, Eleuthera and San Salvador Islands*. Oral Presentation. Rand Nature Centre. Freeport, Grand Bahama, The Bahamas.
- **Brochu, K.**; van Dyke, M.; Kessler, A.; and Danforth, B.N. *Chemical Ecology of Bee Foraging Choices*. Oral Presentation. 2018 Center for Pollinator Research Symposium. Penn State University Park, PA.
- **Brochu, K.**; and Danforth, B.N. *Microbial Communities in Ground-Nesting Bee Brood Cells: Diverse, Stable, and Unique*. Oral Presentation. 2017 Annual Meeting of the Entomological Society of America. Denver, CO.
- **Brochu, K.**; and Williams, K. Fear and Loathing in the Classroom: How Student Attitudes About Insects Affect Learning. Poster Presentation. 2017 Annual Meeting of the Entomological Society of America. Denver, CO.
- **Brochu, K.**; van Dyke, M.; Milano, N.; McArt, S.; Petersen, J.; Nault, B.; Kessler, A.; and Danforth, B.N. *Effects of Pollen Defenses on a Generalist Pollinator*. Oral Presentation. Symposium on the Physiology and Toxicology of Insect Pollinators. Cornell University, NY.
- Brochu, K.; and Williams, K. Fear and Loathing in the Classroom: How Student Attitudes About Insects Affect Learning. Poster Presentation. First Annual Teaching as Research National Conference, Center for Teaching Excellence (CTE) and the Cornell University Center for the Integration of Research, Teaching, and Learning (CU-CIRTL), Cornell University, NY.
- **Brochu, K.**; and Danforth, B.N. *Microbial Ecology of the Squash Bee Brood Cell.* Oral Presentation. 6th Annual Entomology Department Symposium. Cornell University, NY.
- **Brochu, K.**; and Danforth, B.N. *Microbial Ecology of the Bee Brood Cell*. Oral Presentation. 2016 International Congress of Entomology. Orlando, FL.
- Brochu, K., and Williams, K. Fear and Loathing in the Classroom: The Effects of Student Attitudes on Learning. Poster Presentation. 2016 Classroom Research and Teaching Symposium, Center for Teaching Excellence (CTE) and the Center for the Integration of Research, Teaching, and Learning (CU-CIRTL), Cornell University, NY.
- Brochu,K.; Kessler, A.; and Danforth B.N. Chemical and microbial ecology of the bee brood cell: insights from the hoary squash bee, Peponapis pruinosa (Eucerini, Apidae). Oral presentation. 2015 Annual Meeting of the Entomological Society of America. Minneapolis, MN.
- Brochu,K.; Kessler, A.; and Danforth B.N. Chemical and microbial ecology of the bee brood cell: insights from the hoary squash bee, Peponapis pruinosa (Eucerini, Apidae). Oral presentation. 2015 Jugatae Seminar Series. Cornell University, Ithaca, NY.
- **Brochu,K.**; Crampton, W.G.R.; Maldonado-Ocampo, J.A.; and Lovejoy N.R. *The loss of an anti-predator adaptation in the electric knifefish genus Gymnotus (Gymnotidae, Teleostei)*. Poster presentation. Evolution 2012. Ottawa, ON.
- **Brochu,K.**; Crampton, W.G.R.; Maldonado-Ocampo, J.A.; and Lovejoy N.R. *Molecular phylogenetics of the Neotropical electric knifefish genus* Gymnotus *(Gymnotidae, Teleostei): Biogeography and signal evolution of the trans-Andean*

- *species*. Oral presentation. 2011 Joint Meeting of the Ichthyologists and Herpetologists (JMIH). Minneapolis, MN.
- **Brochu,K.**; Crampton, W.G.R.; Maldonado-Ocampo, J.A.; and Lovejoy N.R. Testing the Predator-Avoidance Hypothesis: A molecular phylogenetic approach to the study of electric signals in Gymnotius (Gymnotidae, Teleostei). Oral presentation. Evolution 2011. Norman, OK.
- Brochu,K.; Crampton, W.G.R.; Maldonado-Ocampo, J.A.; and Lovejoy N.R. Molecular phylogenetics of the Neotropical electric knifefish genus Gymnotus (Gymnotidae, Teleostei): Biogeography and signal evolution of the trans-Andean species. Oral presentation. Ontario Ecology, Ethology, and Evolution Colloquium (OE3C). Toronto, ON.
- Brochu,K.; Crampton, W.G.R.; and Lovejoy N.R. *Testing the Predator-Avoidance Hypothesis: Evolution of EOD phase number in* Gymnotus (*Gymnotidae*, *Teleostei*). Poster presentation. 2010 Joint Meeting of the Ichthyologists and Herpetologists (JMIH). Providence, RI.
- 2008 **Brochu, K.**; and Wheeler, T.A. Systematics and ecology of the Nearctic species of Neophyllomyza (*Diptera, Milichiidae*). Poster presentation. Entomological Society of Canada Annual Meeting. Ottawa, ON.
- Brochu, K. Systematics and ecology of the Nearctic species of Neophyllomyza (Diptera, Milichiidae). Oral presentation. Natural Sciences and Engineering Research Council of Canada (NSERC) Undergraduate Student Research Award (USRA) Seminar, McGill University. Montreal, QC.

RESEARCH SUPPORT

- \$500. Rawlins Award, Department of Entomology, Cornell University, NY.
 \$4,000. Griswold Award, Department of Entomology, Cornell University, NY.
 \$2,000. Rawlins Award, Department of Entomology, Cornell University, NY.
 \$400. College of Agriculture and Life Sciences (CALS) Alumni Association Award, Cornell University, NY.
 \$90,000. Hatch Grant Project No. NYC-139426, in collaboration with BN Danforth,
- Cornell University Agricultural Experiment Station Federal Capacity Funds, Cornell University, NY.
- \$637. Rawlins Award, Department of Entomology, Cornell University, NY.
- \$260. College of Agriculture and Life Sciences (CALS) Alumni Association Award, Cornell University, NY.
- \$2,000. Griswold Award, Department of Entomology, Cornell University, NY.
- \$1,000. Graduate Research Travel Award, Graduate School, Cornell University, NY.
- \$520. School of Graduate Studies Conference Grant, University of Toronto, ON.
- \$800. Grant in Aid of Research (GIAR), Sigma Xi, University of Toronto, ON.
- \$6,000. Michael Smith Foreign Study Supplement, Natural Sciences and Engineering Research Council of Canada (NSERC), University of Toronto, ON.

HONORS AND AWARDS

- 2017-18 \$57,000. Paul J. Chapman Graduate Student Fellowship, Department of Entomology, Cornell University, NY.
- 2017 \$75. 1st place Winner, Graduate Student Oral Competition: General Ecology II,

	Plant-Insect Ecosystems Section, 2017 Annual Meeting of the Entomological Society of America. Denver, CO.
2017 2016-17 2016	Finalist, Cornell 3-Minute Thesis Competition, Cornell University, NY. \$32,978. SAGE Fellowship, Department of Entomology, Cornell University, NY. 2nd place Winner, Graduate Student Oral Competition: Ecology and Population Dynamics: Ecology and Evolution, 2016 International Congress of Entomology. Orlando, FL.
2015-16	\$1,000. Graduate Research and Teaching Fellow. Center for Teaching Excellence (CTE), Cornell University, NY.
2014	\$100. Outstanding Graduate Teaching Assistant, Department of Entomology, Cornell University, NY.
2012-15	\$63,000. Post-Graduate Scholarship (PGS D), Natural Sciences and Engineering Research Council of Canada (NSERC), Cornell University, NY.
2012-13	\$32,978. Presidential Life Sciences Fellowship (PLSF), Cornell University, NY.
2011	\$1,000. Graduate Student Research Award (GSRA), University of Toronto, ON.
2011	\$200. Best Student Paper – Oral Presentation, Neotropical Ichthyological Association (NIA), 2011 Joint Meeting of Ichthyologists and Herpetologists, Minneapolis, MN.
2010-11	\$15,000. Bourse de maîtrise en recherche (B1), Fonds québécois de recherché sur la nature et les technologies (FQRNT), University of Toronto, ON.
2009-10	\$17,500. Alexander Graham Bell Canada Graduate Scholarship (CGS M), Natural Sciences and Engineering Research Council of Canada (NSERC), University of Toronto, ON.
2009	\$4,035. Helen Sawyer Hogg Graduate Admission Award, Department of Ecology and Evolutionary Biology, University of Toronto, ON.
2008	\$5,625. Undergraduate Student Research Award (USRA), Natural Sciences and Engineering Research Council of Canada (NSERC), McGill University, QC
2007	\$5,625. Undergraduate Student Research Award (USRA), Natural Sciences and Engineering Research Council of Canada (NSERC), McGill University, QC.
2006	\$3,000. Macdonald Class of '51 Scholarship, Faculty of Agricultural and Environmental Sciences, McGill University, QC.
2006	\$5,625. Undergraduate Student Research Award (USRA), Natural Sciences and Engineering Research Council of Canada (NSERC), McGill University, QC.
	Committee Service
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2018-20	Diversity and Inclusion Committee Member , Department of Entomology, Pennsylvania State University, PA.
2016-18	Professional Development Committee Member, Jugatae, Department of Entomology Graduate Student Society, Cornell University, NY.
2016-17	Organizing Committee, ComSciCon Cornell 2017, Cornell University, NY.
2015-16	President , Jugatae, Department of Entomology Graduate Student Society, Cornell University, NY.
2014-15	Vice-President , Jugatae, Department of Entomology Graduate Student Society, Cornell University, NY.
2014-15	Professional Development Committee Chair, Jugatae, Department of Entomology Graduate Student Society, Cornell University, NY.
2013-14	Secretary , Jugatae, Department of Entomology Graduate Student Society, Cornell University, Ithaca, NY.

2011	Moderator , Ontario Ecology, Ethology, and Evolution Colloquium (OE3C), University of Toronto, ON.	
2011	Advertising Committee, Ontario Ecology, Ethology, and Evolution Colloquium (OE3C), University of Toronto, ON.	
	Outreach	
2019	Presenter , Fair-weather Frenemies: the complex relationship between bees and plants, Science Café, Webster's Café & The Office of Postdoctoral Affairs, Pennsylvania State University, PA.	
2018 2018	Presenter, Great Insect Fair, Pennsylvania State University, PA. "Levy Preserve Night Walk", Leon Levy Native Plant Preserve, Eleuthera, The Bahamas.	
2017 2013-17	Presenter , Empire Farm Days, Cornell Cooperative Extension, NY. "Wild World of Insects" Presenter, Naturalist Outreach Program (Multiple Venues), Cornell University, NY.	
2012-17 2013-16 2014-15 2013-14 2010-11	Presenter, Insectapalooza, Cornell University, NY. "BugZoo" Coordinator, Expanding Your Horizons, Cornell University, NY. "Pollination Walk" Presenter, 4H Career Explorations, Cornell University, NY. Presenter, Cornell Entomology, New York State Fair, Syracuse, NY. "Let's Talk Science" Presenter, University of Toronto, ON.	
2007-08	Tour Guide, Lyman Entomological Museum (LEM), McGill University, QC.	
	Popular Press	
2020	The Bee Report Podcast. "Kristen Brochu: The noxious relationship between pumpkin pollen and bumble bees" 10.iv.2020 < http://thebeereport.buzzsprout.com/819424/3308140-kristen-brochu-the-noxious-relationship-between-numpkin-pollen-and-bumble-bees	
2020	pumpkin pollen and bumble bees" 10.iv.2020 < http://thebeereport.buzzsprout.com/819424/3308140-kristen-brochu-the-noxious-relationship-between-pumpkin-pollen-and-bumble-bees > Cornell Chronicle. "Bumblebees hate pumpkin pollen, which may help pumpkins" 9.iii.2020 < https://news.cornell.edu/stories/2020/03/bumblebees-hate-pumpkin-	
	pumpkin pollen and bumble bees" 10.iv.2020 < http://thebeereport.buzzsprout.com/819424/3308140-kristen-brochu-the-noxious-relationship-between-pumpkin-pollen-and-bumble-bees > Cornell Chronicle. "Bumblebees hate pumpkin pollen, which may help pumpkins" 9.iii.2020 < https://news.cornell.edu/stories/2020/03/bumblebees-hate-pumpkin-pollen-which-may-help-pumpkins > periodiCALS, Vol 5 Issue 3: "Understanding What's Underfoot"	
2020	pumpkin pollen and bumble bees" 10.iv.2020 < http://thebeereport.buzzsprout.com/819424/3308140-kristen-brochu-the-noxious-relationship-between-pumpkin-pollen-and-bumble-bees > Cornell Chronicle. "Bumblebees hate pumpkin pollen, which may help pumpkins" 9.iii.2020 < https://news.cornell.edu/stories/2020/03/bumblebees-hate-pumpkin-pollen-which-may-help-pumpkins > periodiCALS, Vol 5 Issue 3: "Understanding What's Underfoot" < http://fall2015.periodicals.cals.cornell.edu/features/understanding-whats-underfoot > Entomology Today. "If You're Trying to Find Insects in the Forest, Look Up" 8.ii.2014 < http://entomologytoday.org/2014/02/08/if-youre-trying-to-find-insects-in-the-	
2020 2015	pumpkin pollen and bumble bees" 10.iv.2020 < http://thebeereport.buzzsprout.com/819424/3308140-kristen-brochu-the-noxious-relationship-between-pumpkin-pollen-and-bumble-bees > Cornell Chronicle. "Bumblebees hate pumpkin pollen, which may help pumpkins" 9.iii.2020 < https://news.cornell.edu/stories/2020/03/bumblebees-hate-pumpkin-pollen-which-may-help-pumpkins > periodiCALS, Vol 5 Issue 3: "Understanding What's Underfoot" < http://fall2015.periodicals.cals.cornell.edu/features/understanding-whats-underfoot > Entomology Today. "If You're Trying to Find Insects in the Forest, Look Up" 8.ii.2014 < http://entomologytoday.org/2014/02/08/if-youre-trying-to-find-insects-in-the-forest-look-up/ > Lyman Entomological Museum Blog. "Look up, way up: beetles and flies in the tree tops" 2.ii.2014 < http://lymanmuseum.wordpress.com/2014/02/02/look-up-way-up-	
2020 2015 2014	pumpkin pollen and bumble bees" 10.iv.2020 < http://thebeereport.buzzsprout.com/819424/3308140-kristen-brochu-the-noxious-relationship-between-pumpkin-pollen-and-bumble-bees > Cornell Chronicle. "Bumblebees hate pumpkin pollen, which may help pumpkins" 9.iii.2020 < https://news.cornell.edu/stories/2020/03/bumblebees-hate-pumpkin-pollen-which-may-help-pumpkins > periodiCALS, Vol 5 Issue 3: "Understanding What's Underfoot" < http://fall2015.periodicals.cals.cornell.edu/features/understanding-whats-underfoot > Entomology Today. "If You're Trying to Find Insects in the Forest, Look Up" 8.ii.2014 < http://entomologytoday.org/2014/02/08/if-youre-trying-to-find-insects-in-the-forest-look-up/ > Lyman Entomological Museum Blog. "Look up, way up: beetles and flies in the tree	
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2020 2015 2014 2014	pumpkin pollen and bumble bees" 10.iv.2020 < http://thebeereport.buzzsprout.com/819424/3308140-kristen-brochu-the-noxious-relationship-between-pumpkin-pollen-and-bumble-bees > Cornell Chronicle. "Bumblebees hate pumpkin pollen, which may help pumpkins" 9.iii.2020 < https://news.cornell.edu/stories/2020/03/bumblebees-hate-pumpkin-pollen-which-may-help-pumpkins > periodiCALS, Vol 5 Issue 3: "Understanding What's Underfoot" < http://fall2015.periodicals.cals.cornell.edu/features/understanding-whats-underfoot > Entomology Today. "If You're Trying to Find Insects in the Forest, Look Up" 8.ii.2014 < http://entomologytoday.org/2014/02/08/if-youre-trying-to-find-insects-in-the-forest-look-up/ > Lyman Entomological Museum Blog. "Look up, way up: beetles and flies in the tree tops" 2.ii.2014 < http://lymanmuseum.wordpress.com/2014/02/02/look-up-way-up-beetles-and-flies-in-the-tree-tops/ > Lyman Entomological Museum Blog. "New species under our noses" 6.iv.2011 < http://lymanmuseum.wordpress.com/2011/04/06/new-species-under-our-noses/ >	

2019	Story Circles (10 sessions), Narrative Training by Randy Olson.
2019	Introduction to Python and Jupiter, Penn State University, PA.
2018	Geospatial Analysis, Penn State University, PA.
2018	Geospatial Exploration, Penn State University, PA.
2018	<u>Dialictus</u> Bee Identification Workshop, Cornell University, NY.
2018	Equity in STEM for All Genders, Center for the Integration of Research, Teaching,
	and Learning (CIRTL) Online Course.
2018	Finding Your Research Voice, BEST Program Workshop, Cornell University, NY.
2017	Creating an Engaging Classroom Certificate, GET SET Workshop Series, Center
	for Teaching Excellence (CTE), Cornell University, NY.
2017	EARS Advanced Training Certificate, Empathy, Assistance, & Referral Service
	(EARS) Counsellor Training Program, Cornell University, NY
2016	EARS Beginning Training Certificate, Empathy, Assistance, & Referral Service
	(EARS) Counsellor Training Program, Cornell University, NY.
2016	ComSciCon Cornell 2016, Science Communication Conference, Cornell University, NY.
2016	Building Mentoring Skills for an Academic Career Certificate, Research Mentoring
	Certificate Program, Center for the Integration of Research, Teaching, and
	Learning (CU-CIRTL), Cornell University, NY.
2016	Inclusive Teaching Institute, Center for Teaching Excellence (CTE) and the Center
	for the Integration of Research, Teaching, and Learning (CU-CIRTL), Cornell
	University, NY.
2016	Teaching Research Skills Certificate, GET SET Workshop Series, Center for
	Teaching Excellence (CTE), Cornell University, NY.
2016	Assessing Learning and Teaching Certificate, GET SET Workshop Series, Center
	for Teaching Excellence (CTE), Cornell University, NY.
2016	Developing a Professional Identity in Teaching Certificate, GET SET Workshop
	Series, Center for Teaching Excellence (CTE), Cornell University, NY.
2015	Understanding Undergraduate Learners Certificate, GET SET Workshop Series,
	Center for Teaching Excellence (CTE), Cornell University, NY.
2015	Course Design Certificate, GET SET Workshop Series, Center for Teaching
	Excellence (CTE), Cornell University, NY.
2015	Innovative Approaches to Pedagogy Certificate, GET SET Workshop Series,
	Center for Teaching Excellence (CTE), Cornell University, NY.
2015	Enhancing Teaching with Technology Certificate, GET SET Workshop Series,
0045	Center for Teaching Excellence (CTE), Cornell University, NY.
2015	Assessment Practices for the STEM Classroom Certificate, PREPARE Workshop
	Series, Center for Teaching Excellence (CTE) and the Center for the Integration of
0045	Research, Teaching, and Learning (CU-CIRTL), Cornell University, NY.
2015	Spring GET SET University-Wide Teaching Conference, Center for Teaching
2045	Excellence (CTE), Cornell University, NY.
2015	Gene Function Annotation Workshop, BioHPC Lab, Cornell University, NY.
2014	Perl for Biologists Workshop, BioHPC Lab, Cornell University, NY.
2014	RNA-Seq Data Analysis Workshop, BioHPC Lab, Cornell University, NY.
2012	The Bee Course, Southwest Research Station, Portal, AZ.
2010	GIS Workshop, Saint-Louis University, St. Louis, MO.

PROFESSIONAL SOCIETY MEMBERSHIP

2015- Entomological Society of America
 2011-16 Society of Systematic Biology
 2010-12 American Society of Ichthyologists and Herpetologists