

CAROLINE GAYLE STORER PH.D.

CURRICULUM VITAE

CGSTORER@UFL.EDU | [HTTPS://ABOUT.ME/CAROLINE.STORER](https://about.me/caroline.storer) | @CGSTORER

EDUCATION

2017	Ph.D.	Forest Resources and Conservation Advisor: Dr. Jiri Hulcr	University of Florida
2012	M.S.	Aquatic and Fishery Sciences Advisors: Drs. Steven Roberts & Jim Seeb	University of Washington
2009	B.S.	Marine Science (Biology Track) Advisor: Dr. William Szelistowski	Eckerd College

PROFESSIONAL APPOINTMENTS

- 2017-Present Assistant Scientist, Non-tenured Faculty, Florida Museum of Natural History, University of Florida
- 2013-2017 Doctoral Fellow, Forest Resources and Conservation, University of Florida
- 2011-2012 NSF-GK12 Graduate Fellow, University of Washington
- 2009-2012 Graduate Research Assistant, Aquatic and Fishery Sciences, University of Washington

PEER-REVIEWED PUBLICATIONS

- 8) Rosario K, Mettel KA, Benner BE, Johnson R, Scott C, Yusseff-Vanegas SZ, Baker CC, Cassill DL, **Storer C**, Varsani A, Breitbart M (Accepted) Virus discovery in all three major lineages of terrestrial arthropods highlights the diversity of single-stranded DNA viruses associated with invertebrates PeerJ.
- 7) Homziak N, Breinholt J, **Storer C**, Branham M, Kawahara A (Accepted) Anchored hybrid enrichment phylogenomics resolves the backbone of erebine moths Lepidoptera: Noctuoidea. Molecular Phylogenetics and Evolution.
- 6) Kawahara K, Plotkin D, Forero D, **Storer C**, St Laurent R, Espeland M, Dexter K, Pierce N, Breinholt J, Brehm G, Lohman D, Toussaint E, Vargas S (2018) Phylogenetics of moth-like butterflies (Papilionoidea: Hedyliidae) based on a new 13-locus target capture probe set. Molecular Phylogenetics and Evolution.
- 5) **Storer C**, Payton A, McDaniel S, Jordal B, Hulcr J (2017) Cryptic genetic variation in an inbreeding and cosmopolitan pest, *Xylosandrus crassiusculus*, revealed using ddRADseq. Ecology and Evolution. DOI: 10.1002/ece3.3625.
- 4) Steininger S, **Storer C**, Hulcr J, Lucky A (2015) Alternative preservatives of insect DNA for citizen science and other low-cost applications. Invertebrate Systematics 29(5): 468-472.

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- 3) **Storer C**, Breinholt J, Hulcr J (2015) *Wallacellus* is *Euwallacea*: molecular phylogenetics settles generic relationships (Coleoptera: Curculionidae: Scolytinae: Xyleborini). *Zootaxa* 3974(3): 391-400.
- 2) **Storer C**, Quinn T, Roberts S (2013) Quantitative PCR analysis used to characterize physiological changes in brain tissue of senescent sockeye salmon. *Biogerontology* 14(5): 483-90.
- 1) **Storer C**, Pascal C, Roberts S, Templin W, Seeb L, Seeb J (2012) Rank and order: evaluating the performance of SNPs for individual assignment in a non-model organism. *PLOS ONE* 7(11): e49018. doi:10.1371/journal.pone.0049018.

SUBMITTED MANUSCRIPTS

Halbritter D, Kawahara A, **Storer C**, & Daniels J. Phylogeography and population genetics of pine butterflies: sky islands increase genetic divergence. *Ecology and Evolution*.

MANUSCRIPTS

Storer C, Daniel J. Using noninvasive genetic sampling to survey rare butterfly populations. *Insects* (intended).

Vitone T, **Storer C**, Payton A, Dunn R, McDaniel S, Hulcr J, Lucky A. From pavement to population genomics: combining citizen science and ddRADseq to characterize a long established exotic in the United States, the introduced pavement ant, *Tetramorium sp E*. *Proceedings of the Royal Society B* (intended).

Storer C, Atkinson T, Payton A, McDaniel S, Hulcr J. Morphological and molecular variation are poorly correlated in the inbred *Xyleborus ferrugineus* complex (Curculionidae: Scolytinae: Xyleborini) across the Neotropics. *PLOS ONE* (intended).

Storer C, Perkin L, Payton A, McDaniel S, Hulcr J. Genetic variation in the introduced and native ranges of pest beetles with alternate breeding habits. *Molecular Ecology* (intended).

Storer C, Harbeitner R, Rickli-Rahman A, Van Bibber N, & Szelistowski W. Molecular population structure and biogeography of the Gulf pipefish, *Syngnathus scovelli*, in southeastern USA. *Marine Biology* (intended).

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TEACHING

- 2015 FOR6934: Molecular Forest Entomology, Instructor and course developer, University of Florida, <http://tinyurl.com/MolForEnt>
- 2011-2012 9th Grade Biology, NSF GK12 Teaching Fellow at Friday Harbor High School
- 2011-2012 12th Grade Oceanography, NSF GK12 Teaching Fellow at Friday Harbor High School
- 2010 Integrative Environmental Physiology, Teaching Assistant, University of Washington

LECTURES AND TRAINING

- 2017 Best Practices of Cluster Computing, Instructor, Phylogenomics at McGuire Workshop, University of Florida, <https://goo.gl/FB3Fq2>
- 2016-Present Population Genetics in R, Instructor, In-person training for: Lei Xiou Ph.D., Dale Halbritter, and Tyler Vitone, University of Florida
- 2010 Biological Aging, Guest Lecture, Integrative Environmental Physiology, University of Washington
- 2010 Epigenetics, Guest Lecture, Integrative Environmental Physiology, University of Washington
- 2007-2009 Molecular methods, Instructor, Freshman Research Program, Eckerd College

INVITED PRESENTATIONS

- Invited Seminar - *Exploring the diversity of Lepidoptera silks*. TC Emmel Memorial Seminar Series, November 6, 2018, Gainesville, FL.
- Invited Seminar - *Incredible invaders: how bark and ambrosia beetles are colonizing the world*. Smithsonian Marine Station at Fort Pierce Seminar, December 6, 2013, Fort Pierce, FL.
- Invited Seminar - *Spawn and die: sockeye salmon's last stand*. Lions Club of Orcas Island Monthly meeting, July 11, 2012, Eastsound, WA.
- Invited Talk - *Using genotype-by-sequencing to uncover the population history of fungus farming ambrosia beetles*. Entomological Society of America Annual Meeting; November 9-14, 2013, Austin, TX.

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CONFERENCE PRESENTATIONS

Exploring the diversity of Lepidoptera silks. **Storer C**, Kawahara A. UF Science by the Shore, September 22, 2018, Marineland, FL.

Genome-wide species delineation in inbred, widespread, and morphologically variable ambrosia beetles. **Storer C**, Hulcr J. International Congress of Entomology, September 25-30, 2016, Orlando, FL.

Off-the-shelf kits for the saving the world's forests. Available Now? **Storer C**, Hulcr J. North American Forest Insect Work Conference, May 31-June 3, 2016, Washington, D.C.

How haplo-diploidy and inbreeding in common and pest ambrosia beetles contributes to their biological success. **Storer C**, Hulcr J. Entomological Society of America Annual Meeting, November 15-19, 2014, Portland, OR.

Inferring invasion scenarios of both the beetle and the fungus symbionts simultaneously using high-throughput sequencing. **Storer C**, Hulcr J. 56th annual Southern Forest Insect Work Conference, July 22-25, 2104, Charleston, SC.

University of Washington graduate students in the high school: Who's teaching who? Smith D, **Storer C**, Frazee N, & Vermeire M. Western Society of Naturalists Conference, November 10-13, 2011, Vancouver, WA.

Rank and order: evaluating the performance of sockeye salmon SNP assays. **Storer C**, Pascal C, Roberts S, Seeb L, Templin B, & Seeb J. American Fisheries Society Annual Meeting, September 2-8, 2011, Seattle, WA.

Rapid senescence in sockeye salmon: insights from telomeres. **Storer C**. Alaska Salmon Program Symposium, December 10, 2010, Seattle, WA.

Searching for SNPs: Mining the sockeye transcriptome for novel molecular markers. **Storer C**. WA-BC American Fisheries Society Annual Meeting, March 2-4, 2010, Nanaimo, BC, Canada.

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GRANTS & AWARDS

In review	\$67,142	<i>Can variation in foraging ecology explain the diversity of elaborate male courtship displays in jumping spiders?</i> Co-PI with Lisa Taylor, Akito Kawahara UF Ordway Swisher Biological Station Jump Start Award
2018	\$50,000	<i>Enhancing genomic resources for the study of silk in moths</i> Co-PI with Akito Kawahara, Paul Shirk (USDA), Matias Kirst, Chris Reisch UF Genetics Institute Pilot Grant
2018	\$1,000	Florida Museum of Natural History Travel Grant
2015	\$1,500	UF CALS William C. and Bertha M. Cornett Fellowship
2015	\$4,674	The Coleopterists Society Graduate Student Research Enhancement Award
2015	\$300	UF Grad Student Council Travel Grant
2014	\$2,000	UF CALS Doris Lowe and Earl and Verna Lowe Graduate Scholarship
2013	\$300	UF Grad Student Council Travel Grant
2013	\$137,124	UF SFRC Forest Resources & Conservation Graduate Student Fellowship, 4-year tuition and stipend award
2011	\$40,524	NSF GK-12 Graduate Teaching Fellowship, 1-year tuition and stipend award
2010	\$800	Summer Institute in Statistical Genetics Student Scholarship
2010	\$300	SNP Workshop III Young Investigator Award
2009	\$50,560	UW Aquatic & Fishery Sciences Graduate Research/Teaching Assistantship, 2-year tuition and stipend award
2007	\$20,000	NOAA Hollings Scholarship

ACCOLADES

2016	UF SFRC Ph.D. Student of the Year in Forest Resources and Conservation
2014	UF SFRC Graduate Student Symposium Best Forestry Ph.D. Poster
2011	American Fisheries Society James E. Wright Graduate Award for excellence in fisheries genetics
2009	Eckerd College Contribution to the Marine Science Major Award
2009	Sigma Xi Best Presentation Award (Eckerd Student Research Symposium)

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INSTITUTIONAL SERVICE

2016, 2017	UF Frontiers in Forest Health Seminar Host
2016	UF SFRC Faculty Hiring Committee Member
2016	Symposium organizer at the NA Forest Insect Work Conference in DC
2015-2016	UF SFRC Forestry Grad Organization Supervisory Committee Member
2014	UF SFRC Grad Student Symposium Co-coordinator
2013-Present	Ad Hoc Reviewer for Molecular Ecology Resources, The Coleopterists Bulletin, PLOS ONE
2010-2011	UW American Fisheries Society Student Subunit President
2009, 2010	UW Aquatic & Fishery Sciences Grad Invited Speaker Co-coordinator
2009, 2010	UW Aquatic & Fishery Sciences Grad Symposium Co-coordinator

MEDIA

- 2017 *Meet three scientists ready to march*, New York Times Daily 360
<https://www.nytimes.com/video/science/10000005053542/march-for-science-scientists.html>
- 2015 *Expanding the HiPerGator Supercomputer - University of Florida*, Dell and UF IT
<http://tinyurl.com/HiPerGator2>

RELEVANT SKILLS

- Command languages (shell): bash
- Programming languages: R (proficient), Python (beginner)
- Statistical environments: R
- Data management: SQLite, Globus, Dropbox, Open Science Network,
- Operating Systems: Linux, Mac OSX, & Microsoft Windows
- Programs: Microsoft Office Suite, Adobe Illustrator, ArcGIS, Geneious, and others
- Supercomputing: HiPerGator 2.0, SLURM, MOAB
- Operational: UF 15 passenger van training, hazardous waste training, lab safety management training