

RYAN A. ST LAURENT

CURRICULUM VITAE – JANUARY 2025

Museum of Natural History, Box 218 UCB, Boulder, CO 80309
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ORCID: 0000-0001-6439-5249

POSITION

Curator of Entomology, Museum of Natural History, University of Colorado, Boulder 2024-present
Assistant Professor, Department of Ecology and Evolutionary Biology, University of Colorado, Boulder 2024-present

EDUCATION

Ph.D., University of Florida, Department of Biology – Zoology. Dissertation: *Phylogenomics of sack-bearer moths (Lepidoptera: Mimallonidae)*. 419 pp. Committee: Akito Kawahara (chair), Douglas Soltis, Nico Cellinese, Keith Willmott, Emmanuel Toussaint. 2017–2021
B.S., Cornell University, Entomology major, Natural Resources minor, distinction in research. Advisor: James Liebherr. 2012–2016

PROFESSIONAL EXPERIENCE

Peter Buck Postdoctoral Fellow, Smithsonian Institution, Washington D.C. 2021–2024
Research Associate, McGuire Center for Lepidoptera and Biodiversity, Gainesville, FL 2021–Pres.
Bohart Museum of Entomology, University of California at Davis, Davis, California, USA
Voluntary curator of Mimallonidae 2019
Moth Photographers Group
Referee for Bombycoidea and Mimallonoidea 2018–Pres.
Reserva Serra Bonita, Vitor Becker Lepidoptera Collection, Bahia, Brazil
Voluntary curator of Mimallonidae 2018
Alfred Moser Collection of Lepidoptera, Rio Grande do Sul, Brazil
Voluntary curator of Mimallonidae 2018
National Museum of Natural History, Washington, D.C., USA
Voluntary curator of Mimallonidae 2018
The Natural History Museum, London, U.K.
Visiting curator of Mimallonidae; funded by the Departmental Investment Fund 2018
Coneflower Studios, New York, NY, United States
Identification of butterflies and moths for the PBS documentary “Sex, Lies, and Butterflies” 2017
Departamento de Zoologia, Universidade Federal do Paraná, Brazil
Voluntary curator of Mimallonidae 2017
Florida Museum of Natural History, Kawahara Lab
Research assistant/ curator of Bombycoidea and Mimallonoidea 2016–2017
Canadian Wildlife Service, Environment Canada, Gatineau, Quebec, Canada
Contracted work to create and justify common names for the moths of Canada 2015
Cornell University
Extension Assistant to produce visuals for various projects concerning native lookalikes of invasive species including the Asian longhorned beetle, emerald ash borer, and Asian defoliator moths 2014–2015
iNaturalist.org – Curator 2013–Pres.
Cornell University Insect Collection

Student Assistant; Planetary Biodiversity Inventory data entry, Insect Diagnostic lab; Primary curator of Mimallonoidea, Bombycoidea, Lasiocampoidea, Geometroidea (part), Cicadidae 2012–2016
Butterflies and Moths of North America website
 State coordinator, Rhode Island 2012–2017
Fieldwork
 Surveying for rare Saturniidae: Ceratocampinae in New York and New England 2011–2016
BugGuide.net – Editor 2007–Pres.

PREPRINTS

1. Rubin J, Campbell CJ, Carvalho APS, **St Laurent RA**, Crespo GI, Pierson TL, Guralnick RP, Kawahara AY. Macroevolutionary Constraint and Selection on Anti-Bat Moth Tails. *bioRxiv*. doi: <https://doi.org/10.1101/2024.05.05.590753>

PEER-REVIEWED JOURNAL ARTICLES

*Undergraduate mentee, **Graduate mentee

In press

60. **St Laurent RA**, Goldstein PZ, Prada-Lara L, Schintlmeister A, Miller SE, Miller J, Robbins RK. Phylogenomics of Prominent Moths (Lepidoptera: Notodontidae): A Subfamily-Level Reclassification. *Smithsonian Contributions to Zoology*. Accepted.

2024

59. **Prada-Lara L, **St Laurent RA**, Rodríguez MA, Fagua G. Nocturnal delivery: First record of orchid pollinia (Orchidales: Orchidaceae) on prominent moths (Lepidoptera: Notodontidae). *Revista Chilena de Entomología* 50 (4): 609-615. <https://doi.org/10.35249/rche.50.4.24.02>
58. Mulvaney LRJ, **St Laurent RA**, László GM, Schintlmeister A. Integrative taxonomic revision of the *Cerurina-Afrocerura* genus-pair (Lepidoptera, Noctuoidea, Notodontidae, Cerurinae). *Insect Systematics and Diversity* 8(5): 1–44. <https://doi.org/10.1093/isd/ixae029>.
57. Sondhi Y, Messcher RL, Bellantuano AJ, Storer CG, Cinel SD, Godfrey RK, Mongue AJ, Weng Y-M, Glass D, **St Laurent RA**, Hamilton CA, Earl C, Brislawn CJ, Kitching IJ, Bybee SM, Theobald JC, Kawahara AY. Day-night gene expression reveals circadian gene *disco* as a candidate for diel-niche evolution in moths. *Proceedings of the Royal Society B: Biological Sciences* 291: 20240591. <https://doi.org/10.1098/rspb.2024.0591>.
56. Carvalho APS, Owens HL, **St Laurent RA** (+25 authors). Comprehensive phylogeny of Pieridae butterflies reveals strong correlation between diversification and temperature. *iScience* 27(4): 109336. doi: <https://doi.org/10.1016/j.isci.2024.109336>
55. **St Laurent RA**, Carvalho APS, Orlandin E, Carneiro E. The life histories of *Americerura* (Lepidoptera, Notodontidae, Cerurinae) from southern Brazil, with the description of a new species. *Journal of Natural History* 57 (45–48): 2039–2082. <https://doi.org/10.1080/00222933.2023.2282624>
54. **St Laurent RA**, Goldstein PZ, Miller SE, Robbins RK. Hiding in Plain Sight: Phylogenomics Reveals a New Branch on the Noctuoidea Tree of Life. *Systematic Entomology* 49: 258–278 doi: <https://doi.org/10.1111/syen.12614>

2023

53. **St Laurent RA**, Goldstein PZ, Robbins RK. A new genus of Heterocampinae (Lepidoptera, Notodontidae) from Central and South America. *Insect Systematics and Evolution* online: 1–11; doi: <https://doi.org/10.1163/1876312X-bja10053>

52. Orlandin E, **St Laurent RA**, Piovesan M, Hallwachs W, Chacón I, Janzen D, Carneiro E. *Anurocampa* (Lepidoptera: Notodontidae): two new species, systematics and immature stages. *Zootaxa* 5306(4): 401–426; doi: <https://doi.org/10.11646/zootaxa.5306.4.1>
51. Kawahara AY, Storer C, Carvalho APS, Plotkin DM, Condamine F, Braga MP, Ellis EA, **St Laurent RA** (+80 authors). A global phylogeny of butterflies reveals their evolutionary history, ancestral hosts and biogeographic origins. *Nature Ecology and Evolution*. doi: <https://doi.org/10.1038/s41559-023-02041-9>
50. **Prada-Lara L, **Jiménez-Bolívar AC, **St Laurent RA**. Prominent moths (Lepidoptera: Notodontidae) of Colombia. *Zootaxa* 5284(3): 401–444. <https://doi.org/10.11646/zootaxa.5284.3.1>
49. **St Laurent RA**, Goldstein PZ, Miller JS, Markee A, Staude H, Kawahara AY, Miller SE, Robbins RK. Phylogenetic systematics, diversification, and biogeography of Cerurinae (Lepidoptera: Notodontidae) and a description of a new genus. *Insect Systematics and Diversity* 7(2): 1–25. doi: <https://doi.org/10.1093/isd/ixad004>
48. **Prada-Lara L, *Jiménez-Bolívar AC, **St Laurent RA**. A new species of *Polypoetes* Druce, 1885 (Lepidoptera: Notodontidae) from Colombia, with confirmation of a new host plant for the Dioptinae. *Revista Chilena de Entomología* 49(1): 101–107. doi: <https://doi.org/10.35249/rche.49.1.23.12>

2022

47. **St Laurent RA**, Carvalho APS, Romanowski HP. Notes on the immature stages of *Almeidella corrupta* (Schaus, 1913) (Lepidoptera, Saturniidae, Ceratocampinae). *Tropical Lepidoptera Research* 32(2): 79–86. doi: <https://doi.org/10.5281/zenodo.7246167>
46. Li X, **St Laurent R**, Earl C, Doorenweerd C, van Nieuwerkerken EJ, Davis DR, Johns CA, Kawakita A, Kobayashi S, Zwick A, Lopez-Vaamonde C, Ohshima I, Kawahara AY. Phylogeny of gracillariid leaf-mining moths: Evolution of larval behaviour inferred from integrated phylogenomic and Sanger data. *Cladistics* 28: 277–300. <https://doi.org/10.1111/cla.12490>
45. Li X, Hamilton CA, **St Laurent RA**, Ballesteros-Mejia L, Markee A, Haxaire J, Rougerie R, Kitching IJ, Kawahara AY. A diversification relay race from Caribbean-Mesoamerica to the Andes: historical biogeography of *Xylophanes* hawkmoths. *Proceedings of the Royal Society B* 289: 20212435. <http://doi.org/10.1098/rspb.2021.2435>

2021

44. Mielke CGC, **St Laurent RA**. Description of the females of *Eacles callopterus* Rothschild, *Bathyphebia aglia* C. & R. Felder and *B. aglioides* Naumann, Brosch & Wenzel from Colombia and Peru (Lepidoptera: Saturniidae, Ceratocampinae). *Nachrichten des entomologischen Vereins Apollo, Frankfurt am Main, N.F.* 42 (4): 181–184.
43. *Jiménez-Bolívar AC, Prada-Lara L, **St Laurent RA**, Rougerie R. The Wild Silkmoths (Lepidoptera: Bombycoidea: Saturniidae) of Colombia: a database of occurrence points and taxonomic checklist. *Zootaxa* 5081 (2): 151–202. <https://doi.org/10.11646/zootaxa.5081.2.1>
42. Carvalho APS, **St Laurent RA**, Romanowski HP. The Bombycoidea and Mimallonoidea (Lepidoptera) of a research station in the grasslands of Southern Brazil. *Zootaxa* 5048 (1): 118–126. doi: <https://doi.org/10.11646/zootaxa.5048.1.6>
41. **St Laurent RA**, Carvalho APS, Earl C, Kawahara AY. Food plant shifts drive the diversification of Sack-bearer moths. *The American Naturalist* 198 (5): E170–E184. doi: <https://doi.org/10.1086/716661>
40. *Prada-Lara L, **St Laurent RA**. Hidden treasures: Mimallonidae (Lepidoptera) from the Museo Javeriano de Historia Natural, with descriptions of the female of *Bedosiallo moengus* (Schaus, 1928), and a new species of *Gonogramma* Boisduval, 1872. *Revista Chilena de Entomología* 47 (3): 501–511.
39. Carvalho APS, **St Laurent RA**, Toussaint EFA, Storer C, Dexter KM, Aduse-Poku K, Kawahara AY. Is Sexual Conflict a Driver of Speciation? A Case Study With a Tribe of Brush-footed Butterflies. *Systematic Biology* 70 (3): 413–420. doi: <https://doi.org/10.1093/sysbio/syaa070>

2020

38. Mielke CGC, **St Laurent RA**, Rougerie R, Nässig WA. Notes on *Adeloneivaia* Travassos: the identity of *A. catharina* (Bouvier) and the descriptions of female *A. bahiana* Brechlin & Meister and *A. minuta* (Bouvier) (Lepidoptera: Saturniidae: Ceratocampinae). *Nachrichten des entomologischen Vereins Apollo, Frankfurt am Main, N.F.* 41 (3/4): 131–137.
37. **St Laurent RA**, Herbin D, Kawahara AY. Revision of *Roelofa* Schaus, 1928 (Lepidoptera, Mimallonidae, Roelofinae) with a description of a new species. *Zootaxa* 4877 (3): 505–538. doi: <https://doi.org/10.11646/zootaxa.4877.3.6>
36. Mielke CGC, **St Laurent RA**. Description of the females of *Automeris lauroia* Oiticica, 1965 and *Molippa pearsoni* Lemaire, 1982 from Brazil (Lepidoptera: Saturniidae, Hemileucinae, Hemileucini). *Nachrichten des entomologischen Vereins Apollo, Frankfurt am Main, N.F.* 40(3/4): 217–219.
35. **St Laurent RA**, Becker VO. A new species of *Cicinnus* Blanchard (Lepidoptera, Mimallonidae, Cicinninae) from the mangrove ecoregions of Brazil. *Zootaxa* 4786 (3): 425–430. doi: <https://doi.org/10.11646/zootaxa.4786.3.8>
34. **St Laurent RA**, Reeves LE, Kawahara AY. *Cicinnus chambersi*: a new species of sack-bearer moth (Lepidoptera, Mimallonidae, Cicinninae) from southeastern Arizona, USA. *ZooKeys* 931: 49–71. doi: <https://doi.org/10.3897/zookeys.931.50203>
33. **St Laurent RA**, Becker VO. New genus and species of Mimalloninae (Lepidoptera: Mimallonidae), with updated distributional and phenological data for *Tostallo albescens* (Jones). *Proceedings of the Entomological Society of Washington* 122(1): 172–183. doi: <https://doi.org/10.4289/0013-8797.122.1.172>
32. **St Laurent RA**, Mielke CGC, Herbin D, Dexter KM, Kawahara AY. A new target capture phylogeny elucidates the systematics and evolution of wing coupling in sack-bearer moths. *Systematic Entomology* 45(3): 653–669. doi: <https://doi.org/10.1111/syen.12421>

2019

31. Hamilton CA, **St Laurent RA**, Dexter K, Kitching IJ, Breinholt JW, Zwick A, Timmermans M, Barber JR, Kawahara AY. Phylogenomics resolves major relationships and reveals significant diversification rate shifts in the evolution of silk moths and relatives. *BMC Evolutionary Biology* 19(18): 1–13. doi: <https://doi.org/10.1186/s12862-019-1505-1>
30. **St Laurent RA**, Giusti A. Revision of *Zaphanta* Dyar, 1910 (Lepidoptera: Mimallonidae: Zaphantinae), with descriptions of nine new species. *Journal of Natural History* 53(19–20): 1209–1246. doi: <https://doi.org/10.1080/00222933.2019.1634772>
29. **St Laurent RA**. Three new species of *Psychocampa* Grote and Robinson (Mimallonidae, Cicinninae, Psychocampini) and the description of the female of *P. kohlli* Herbin. *Tropical Lepidoptera Research* 29(1): 1–11. doi: <https://doi.org/10.5281/zenodo.2647560>
28. **St Laurent RA**, Carvalho APS, Kawahara AY. Two new species of *Psychocampa* and a possible case of visual mimicry in the Sack-bearer Moths (Lepidoptera: Mimallonidae). *Insect Systematics and Diversity* 3(2): 3; 1–9. doi: <https://doi.org/10.1093/isd/ixz003>
27. **St Laurent RA**, Mielke CGC. New species of *Procinnus* Herbin and *Micrallo* St Laurent and C. Mielke (Lepidoptera, Mimallonidae, Druenticinae) from the Brazilian Cerrado. *Zootaxa* 4571(1): 111–124. doi: <https://dx.doi.org/10.11646/zootaxa.4571.1.7>
26. **St Laurent RA**, Kawahara AY. Reclassification of the Sack-bearer Moths (Lepidoptera, Mimallonidae, Mimallonidae). *ZooKeys* 815: 1–114. doi: <https://doi.org/10.3897/zookeys.815.27335>

2018

25. **St Laurent RA**, Giusti A, Mielke CGC. The identity of *Cicinnus orthane* Blanchard, 1852 (Lepidoptera, Mimallonidae, Mimallonidae), type species of *Cicinnus* Blanchard, 1852. *Zootaxa* 4450(2): 275–285. doi: <https://doi.org/10.11646/zootaxa.4450.2.6>

24. Kawahara AY, Breinholt JW, Espeland M, Storer C, Plotkin D, Dexter KM, Toussaint EFA, **St Laurent RA**, Brehm G, Vargas S, Forero D, Pierce NE, Lohman DJ. Phylogenetics of moth-like butterflies (Papilionoidea: Hedyliidae) based on a new 13-locus target capture probe set. *Molecular Phylogenetics and Evolution* 127: 600–605. doi: <https://doi.org/10.1016/j.ympev.2018.06.002>
23. Kawahara AY, Plotkin D, Hamilton CA, Gough H, **St Laurent RA**, Owens H, Homziak NT, Barber JR. Diel behavior in moths and butterflies: a synthesis of data illuminates the evolution of temporal activity. *Organisms Diversity & Evolution* 18: 13–27. doi: <https://doi.org/10.1007/s13127-017-0350-6>
22. **St Laurent RA**, Mielke CGC. A new species of *Lacosoma* (Lepidoptera, Mimallonoidea, Mimallonidae) from Southern Brazil, and a new combination. *Tropical Lepidoptera Research* 28(1): 19–24.
21. **St Laurent RA**, Hamilton CA, Kawahara AY. Museum specimens provide phylogenomic data to resolve relationships of sack-bearer moths (Lepidoptera, Mimallonoidea, Mimallonidae). *Systematic Entomology* 43: 729–761. doi: <http://dx.doi.org/10.1111/syen.12301>
20. **St Laurent RA**, McCabe TL, Malm T. Revision of the genus *Aleyda* Schaus, 1928 with the description of one new species (Lepidoptera: Mimallonidae). *SHILAP Revista de Lepidopterología* 46(181): 157–167.
19. Kitching IJ, Rougerie R, Zwick A, Hamilton CA, **St Laurent RA**, Naumann S, Ballesteros Mejia L, Kawahara AY. A global checklist of the Bombycoidea (Insecta: Lepidoptera). *Biodiversity Data Journal* 6: e22236. doi: <https://doi.org/10.3897/BDJ.6.e22236>

2017

18. **St Laurent RA**, Giusti A, Herbin D. Revision of the genus *Biterolfa* Schaus, 1928 (Mimallonoidea: Mimallonidae) with the descriptions of two new species. *Tropical Lepidoptera Research* 27(2): 86–95.
17. Sourakov A, **St Laurent RA**, Dexter K, Doll C. Experimental evidence for polyphenism in *Automeris io* (Lepidoptera: Saturniidae) in north Florida. *Tropical Lepidoptera Research* 27(2): 117–119.
16. **St Laurent RA**, Wagner DL, Reeves LE, Kawahara AY. Notes on the larva and natural history of *Lacosoma arizonicum* Dyar (Mimallonoidea, Mimallonidae) with new host and parasitoid records. *The Journal of the Lepidopterists' Society* 71(3): 177–181.
15. **St Laurent RA**. Notes on Mimallonidae (Lepidoptera: Mimallonoidea, Mimallonidae) of the Neotropical Pacific coast, with the descriptions of two new species of *Cicinnus* Blanchard, 1852. *Nachrichten des entomologischen Vereins Apollo, Frankfurt am Main, N.F.* 38(1): 23–27.
14. **St Laurent RA**, Herbin D, Mielke CGC. Revision of the genus *Reinmara* Schaus, 1928 (Lepidoptera, Mimallonoidea, Mimallonidae) with the descriptions of four new species from South America. *ZooKeys* 677: 97–129. doi: <https://doi.org/10.3897/zookeys.677.12435>
13. **St Laurent RA**, Carvalho APS. A new genus of Andean Mimallonidae (Mimallonoidea), with the descriptions of four new species. *The Journal of the Lepidopterists' Society* 71(2): 92–108.
12. **St Laurent RA**, Cock MT. Annotated list of Mimallonidae (Lepidoptera, Mimallonoidea) from Trinidad and Tobago, with the description of a new species of *Cicinnus* Blanchard, 1852 and taxonomic notes. *Zootaxa* 4268(1): 053–070. doi: <http://doi.org/10.11646/zootaxa.4268.1.3>
11. **St Laurent RA**, McCabe T. The identity of *Arhodia egenaria* Walker, 1866 (Lepidoptera, Mimallonoidea, Mimallonidae) and a new synonym of *Cicinnus melsheimeri* (Harris, 1841). *Zootaxa* 4254 (3): 379–381. doi: <https://doi.org/10.11646/zootaxa.4254.3.7>
10. **St Laurent RA**, Carvalho APS. Report of diurnal activity in Mimallonoidea with notes on the sexual behavior of *Lacosoma chiridota* Grote, 1864. *The Journal of the Lepidopterists' Society* 71(1): 12–15.
9. **St Laurent RA**, Herbin D, & Mielke CGC. Revision of the genus *Tarema* Schaus, 1896 (Lepidoptera, Mimallonoidea, Mimallonidae) with the description of a new species from southeastern Brazil. *ZooKeys* 646: 119–137. doi: <https://doi.org/10.3897/zookeys.646.10897>

8. **St Laurent RA**, Herbin D. Revision of the genus *Vanenga* Schaus, 1928 (Lepidoptera, Mimallonoidea, Mimallonidae) with the description of a new species. *ZooKeys* 644: 89–104. doi: <https://doi.org/10.3897/zookeys.644.10705>

2016

7. **St Laurent RA**. Revisions of the genera *Lurama* Schaus, 1928 and *Ulmara* Schaus, 1928 (Lepidoptera, Mimallonoidea, Mimallonidae) with the descriptions of three new *Ulmara* species and a new genus. *ZooKeys* 611: 57–92. doi: <https://doi.org/10.3897/zookeys.611.9058>
6. **St Laurent RA**. Updated distributional data for *Citheronia sepulcralis* Grote & Robinson, 1865 (Saturniidae: Ceratocampinae), with a new host plant record. *The Journal of the Lepidopterists' Society* 70(1): 9–14. doi: <https://doi.org/10.18473/lepi.70i1.a3>
5. **St Laurent RA**, McCabe T. The Mimallonidae (Lepidoptera, Mimallonoidea) of the Caribbean Basin, with the descriptions of two new species. *Zootaxa* 4084(4): 557–571. doi: <https://doi.org/10.11646/zootaxa.4084.4.6>
4. **St Laurent RA**, Mielke CGC. Three new genera of Neotropical Mimallonidae (Lepidoptera, Mimallonoidea, Mimallonidae) with descriptions of three new species. *ZooKeys* 566: 117–143. doi: <https://doi.org/10.3897/zookeys.566.7344>
3. **St Laurent RA**, Dombroskie JJ. Revision of the genus *Menevia* Schaus, 1928 (Lepidoptera, Mimallonoidea, Mimallonidae) with the description of 11 new species. *ZooKeys* 566: 31–116. doi: <https://doi.org/10.3897/zookeys.566.6982>

2015

2. **St Laurent RA**, Mielke CGC, & Naumann S. Notes on the genus *Eacles* Hübner, [1819] in Brazil with descriptions of the females of *Eacles bertrandi* Lemaire, 1981 and *Eacles mayi* Schaus, 1905 (Lepidoptera: Saturniidae, Ceratocampinae). *Nachrichten des entomologischen Vereins Apollo, Frankfurt am Main, N.F.* 36(4): 196–207.
1. **St Laurent RA**, Dombroskie JJ. Revision of the genus *Eadmuna* Schaus, 1928 (Lepidoptera, Mimallonidae) with a description of a new species from French Guiana. *ZooKeys* 494: 51–68. doi: <https://doi.org/10.3897/zookeys.494.9208>

BOOK CHAPTERS

2023

6. **St Laurent RA**. 78. Mimallonidae. In: Pohl G, Nanz, S., editors. *Annotated taxonomic checklist of the Lepidoptera of North America, North of Mexico*. Bakersfield, California: The Wedge Entomological Research Foundation. pp. 274
5. **St Laurent RA**. 82. Apatelodidae. In: Pohl G, Nanz, S., editors. *Annotated taxonomic checklist of the Lepidoptera of North America, North of Mexico*. Bakersfield, California: The Wedge Entomological Research Foundation. pp. 280.
4. **St Laurent RA**. 83. Bombycidae. In: Pohl G, Nanz, S., editors. *Annotated taxonomic checklist of the Lepidoptera of North America, North of Mexico*. Bakersfield, California: The Wedge Entomological Research Foundation. pp. 281.
3. **St Laurent RA**. 84. Saturniidae. In: Pohl G, Nanz, S., editors. *Annotated taxonomic checklist of the Lepidoptera of North America, North of Mexico*. Bakersfield, California: The Wedge Entomological Research Foundation. pp. 282–285
2. **St Laurent RA**, Kitching IJ. 85. Sphingidae. In: Pohl G, Nanz, S., editors. *Annotated taxonomic checklist of the Lepidoptera of North America, North of Mexico*. Bakersfield, California: The Wedge Entomological Research Foundation. pp. 286–292.

- Schmidt BC, St Laurent RA. 89. Notodontidae. In: Pohl G, Nanz, S., editors. *Annotated taxonomic checklist of the Lepidoptera of North America, North of Mexico*. Bakersfield, California: The Wedge Entomological Research Foundation. pp. 331–336.

FELLOWSHIPS & GRANTS (total \$330,000+)

Smithsonian Institution Barcode Network	2024
Sequencing costs for <i>Hemiceratinae</i> moths (<i>Lepidoptera</i> , <i>Notodontidae</i>): <i>A Neotropical radiation of Fabaceae feeders</i>	
Co-PI with P. Goldstein (\$14,041 + \$9,220 USDA/SEL match)	
Guanacaste Dry Forest Conservation Foundation	2023
Additional year of postdoctoral fellowship funding (\$67,000)	
United States Department of Agriculture	
NIFA-AFRI. <i>Investigating The Shifting Distribution and Outbreak Potential of a Pacific Northwest Coniferous Forest Pest - The Pandora Pine Moth</i> ; Senior Associate (non-salaried)	
	2021
Smithsonian Institution	
Peter Buck Postdoctoral Fellowship (\$128,250)	
	2021
National Science Foundation	
National Science Foundation Graduate Research Fellowship Program (\$102,000)	
	2017
University of Florida	
UF Open Access Publishing Fund: 7 Jan. (\$1,379)	
	2019
Travel Award and matching May Fund, UF, College of Liberal Arts and Sciences (\$475)	
	2018
Graduate Student Council Travel Grant, UF (\$350) [declined]	
	2018
Florida Museum of Natural History Travel Award: Spring (\$678); Fall (\$675)	
	2018
UF Open Access Publishing Fund: 4 Jan. (\$527); 23 Jan. (\$525); May (\$540)	
	2017
Cornell University	
Rawlings Presidential Research Scholar Award, Cornell University (\$5,000)	
	2014
International	
SYNTHESIS+ Transnational Access to NHMUK, European Commission (\$9,722)	
	2022
Departmental Investment Fund from the Natural History Museum, London, U.K. (\$3,769)	
	2018
Academic Society Grants	
Ron Leuschner Memorial Fund for Research on the Lepidoptera, Lepidopterists' Society (\$500)	
	2018

AWARDS & HONORS

First Annual award by Biodiversity Data Journal for Most cited article (1 st place)	2021
Austin Award for Graduate Student Excellence in Natural Science Research	2020
Harry K. Clench Award, 1 st Place for student presentation, Lepidopterists' Society Meeting	2019
1 st Place for Student Competition for the President's Prize, 10-minute paper presentations, Entomological Society of America Annual Meeting	2018
Harry K. Clench Award, 1 st Place for student presentation, Lepidopterists' Society Meeting	2018
Alumni Association Award, Cornell University, College of Agriculture and Life Sciences	2016

TEACHING

BSC2011: Integrated Principles of Biology 2 Lab – Teaching Assistant	2021
PCB4674: Evolution – Teaching Assistant	2020
Guest lecturer – “Insects: A Closer Look at the Smaller Things.” Osher Lifelong Learning Institute (OLLI) at UMass Boston.	2020

MENTORSHIP

Emerson Collective Youth Collaborative – Mentor 2022
Training – Mentorship of undergraduate entomology students in Colombia resulting in academic publications and ongoing research projects (see Publications) 2021–Pres.

SERVICE

Committees

EBIO Graduate Committee: member 2024–Present
CU Boulder Museum of Natural History JEDI committee: member 2024–Present
Noctuoidea Research Group Annual Meeting Organizing Committee: 2023, 2024
Biology Graduate Student Association Officer: Summer 2020–Spring 2021

Insecta Mundi, Center for Systematic Entomology, academic journal

Review Editor 2020–Pres.

Tropical Lepidoptera Research, academic journal

Associate Editor 2020–Pres.

Peer reviewer

Arthropod Systematics & Phylogeny; Biodiversity Data Journal; Canadian Journal of Zoology; Evolutionary Ecology; Historia Natural; Insect Systematics and Diversity; Journal of the Lepidopterists' Society; Mitochondrial DNA Part A; Molecular Phylogenetics and Evolution, Neotropical Entomology; Paleoentomology, PCI Genomics, PeerJ, PLOS One, Revista Chilena de Entomología; Studies on Neotropical Fauna and Environment; Systematic Entomology; Tropical Lepidoptera Research; Wellcome Open Research; ZooKeys; Zoologica Scripta; Zoologischer Anzeiger; Zootaxa

SEMINARS

*Invited speaker

1. ***St Laurent RA.** Sack-bearers and Prominents. Invited speaker in the “Research Seminar in Ecology Course” hosted by Giovanni Fagua, Curador de Lepidóptera, Museo Javeriano de Historia Natural y Coordinador, Laboratorio de Entomología.

CONFERENCES

*Invited speaker, **Student mentee presenter

Oral presentations

1. **St Laurent RA,** Goldstein P, Miller S, Janzen D, Hallwachs W. Ecology and evolution of *Hemiceras* (Lepidoptera: Notodontidae), a species-rich moth genus endemic to the Americas. In: 2024 Entomological Society of America annual meeting. Phoenix, AZ.
2. Goldstein P, **St Laurent R,** Owen C, Adkins M, Bridges R. Rising tides and floating boats: Enhancing the U.S. National Insect Collection to leverage research and taxonomic services. In: 2024 Entomological Society of America annual meeting. Phoenix, AZ.
3. ***St Laurent RA.** Plenary Talk: Sack-bearers and Prominents. In: 2024, 50th Meeting of the Society of Kentucky Lepidopterists. Lexington, Kentucky.
4. ***St Laurent RA,** Goldstein PZ, Prada-Lara L, Schintlmeister A, Miller SE, Miller J, Robbins RK. Phylogenomics of Notodontidae (Lepidoptera: Noctuoidea). In: 2024, 10th Dresden Meeting on Insect Phylogeny. Dresden, Germany.

5. **St Laurent RA**. Mountain moths: Future research at the Mountain Research Station. In: 2024 Annual meeting of the Guild of Rocky Mountain Ecologists and Evolutionary Biologists (GREEBs). Nederland, CO, USA.
6. **Novick I, Alqassar J, Aichelman H, Kawahara AY, **St Laurent R**, Lin C, Chen K, Obembe A, Fifer J, Mullen S. Elucidating evolutionary relationships and biogeography within the Tineidae (fungus moth) family. In: 2024 Evolution Conference. Montreal, Quebec, Canada.
7. **St Laurent RA**, Goldstein PZ. Changes to North American Notodontidae classification in light of phylogenomics. In: 2024 Annual Meeting of the Lepidopterists' Society. Cornell University, Ithaca, NY USA.
8. **St Laurent RA**. Life history and systematics of *Americerura*, the sole American endemic genus of Cerurinae (Notodontidae). In: 2024 (virtual) Noctuoidea Research Group Meeting.
9. **Rubin J, Campbell CJ, Carvalho AP, **St Laurent R**, Crespo G, Pierson T, Guralnick R, Kawahara A. A multi-experiment investigation of an elaborate anti-predator trait in moon moths. In: 2024 SICB: The Society for Integrative and Comparative Biology. Seattle, Washington.
10. **St Laurent RA**, Goldstein PZ, Miller S, Robbins R. Phylogenomics of prominent moths (Notodontidae) reveals a new family. In: 2023 Entomological Society of America annual meeting. Washington DC.
11. ***St Laurent RA**. Phylogenomics reveals a new moth family and establishes a complete reclassification of Prominents (Notodontidae). In: 2023 McGuire Center T.C. Emmel Seminar, Gainesville, FL, USA.
12. **Prada-Lara L, Jiménez A, **St Laurent RA**. Polillas prominentes (Lepidoptera: Notodontidae) de Colombia. In: 2023 Socolen: Sociedad Colombiana de Entomología, Medellín, Colombia.
13. **St Laurent RA**, Goldstein PZ. Phylogenomics of Notodontidae and a new family of noctuoids. In: 2023 (virtual) Noctuoidea Research Group Meeting.
14. **Prada-Lara L, Jiménez A, **St Laurent RA**. Prominent Moths (Lepidoptera: Notodontidae) of Colombia. In 2023 (virtual) Noctuoidea Research Group Meeting.
15. ***St Laurent RA**. Phylogenomics of Notodontidae. Entomological Society of Washington - 1232nd Meeting, December 1, 2022.
16. **St Laurent RA**, Goldstein PZ, Robbins R, Miller J. Phylogeny and global biogeography of puss moths and kittens (Lepidoptera: Notodontidae: Cerurinae). In 2022 Entomological Society of America annual meeting. Vancouver, Canada.
17. Kawahara AY, Carvalho APS, Plotkin D, **St Laurent RA**, Li X, Earl C, Toussaint E, Markee A, Pierce N, Lohman DJ. Evolution and diversification dynamics of butterflies. In: 2022 Entomological Society of America annual meeting. Vancouver, Canada.
18. **St Laurent**. Current state of Mimallonidae research. In: 2021 (virtual) Combined Annual Meeting of The Lepidopterists' Society, Southern Lepidopterists' Society, Association for Tropical Lepidoptera and Societas Europaea Lepidopterologica.
19. **St Laurent RA**, Carvalho APS, Earl C, Kawahara AY. Diversification dynamics and larval feeding patterns of Sack-bearer Moths (Lepidoptera: Mimallonidae). In: 2020 (virtual) Entomological Society of America Meeting.
20. **St Laurent RA**, Mielke CGC, Herbin D, Dexter KM, Kawahara AY. A new target capture phylogeny resolves the evolution of wing coupling in sack-bearer moths. In: 2020 Society of Systematic Biologists Standalone Meeting (Systematics in the Swamp). University of Florida, USA.
21. Carvalho APS, **St Laurent RA**, Toussaint EFA, Storer C, Dexter KM, Aduse-Poku K, Kawahara AY. Is Sexual Conflict a Driver of Speciation? A Case Study With a Tribe of Brush-footed Butterflies. In: 2020 Society of Systematic Biologists Standalone Meeting (Systematics in the Swamp). University of Florida, USA.

22. **St Laurent RA**, Giusti A, Kawahara AY. *Zaphanta*, the sister group to all other sack-bearer moths. In: 2019 Annual Meeting of the Lepidopterists' Society. University of California, Davis, USA.
23. **St Laurent RA**, Kawahara AY. Evolution of host plant associations in sack-bearer moths (Mimallonidae). In: 2019 Evolution Conference. Providence, RI, USA.
24. ***St Laurent RA**. Advances in the systematics and phylogenetics of Mimallonidae. In: 2019 McGuire Center T.C. Emmel Seminar, Gainesville, FL, USA.
25. **St Laurent RA**, Hamilton CA, Kawahara AY. Revised classification of the sack-bearer moths (Lepidoptera: Mimallonoidea). In: 2018 Entomological Society of America, Entomological Society of Canada, and Entomological Society of British Columbia Joint Annual Meeting. Vancouver Convention Center, Vancouver, British Columbia, Canada.
26. **St Laurent RA**, Hamilton CA, Kawahara AY. The first phylogeny of Mimallonidae, and a revised classification of the family. In: 2018 Combined Annual Meeting of the Lepidopterists' Society and Societas Europaea Lepidopterologica. Carleton University, Ottawa, Ontario, Canada.
27. **St Laurent RA**, Carvalho APS. Diurnal behavior in Mimallonoidea. In: 2017 Annual Joint meeting of the Southern Lepidopterists' Society and Association for Tropical Lepidoptera. McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, Gainesville, FL, USA.
28. **St Laurent RA**. Revisions of the genera *Lurama* and *Ulmara* (Mimallonoidea, Mimallonidae), with the descriptions of three new *Ulmara* species and a new genus. In: 2016 Annual Joint meeting of the Southern Lepidopterists' Society and Association for Tropical Lepidoptera. McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, Gainesville, FL, USA.

Posters

1. **St Laurent RA**, Dombroskie JJ. Revision of the genus *Menevia* Schaus 1928, (Lepidoptera: Mimallonoidea: Mimallonidae) with descriptions of several new species. In: 2015 Annual Meeting of the Lepidopterists' Society. 2015. Purdue University, West Lafayette, IN.

OTHER TECHNICAL PUBLICATIONS

1. Author of *Lymantria dispar* and Light Brown Apple Moth fact pages for the Sentinel Plant Network website <http://www.sentinelplantnetwork.org/>
2. Joint author and researcher for "Diagnostic Resources for First Detectors" with the National Plant Diagnostic Network. Products: picture clues, identification posters, and First Detector scripted presentations.

MEDIA

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| St Laurent et al. 2023 featured in <i>BBC Wildlife</i> https://shorturl.at/kntRU | 2024 |
| Participant/ cast member in "Nature - American Spring Live", Episode 3, PBS. http://www.pbs.org/wnet/nature/american-spring-live/ | 2019 |
| "Houses of silk, poop and plants: Meet the sack-bearer moths"; Florida Museum of Natural History outreach video: https://youtu.be/NfUV-tRnZIA | 2018 |

OUTREACH

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| CU Boulder Culture Crawl | 2024 |
| ButterflyFest volunteer, Libraries of Life/ iNaturalist tutorials; Florida Museum of Nat. Hist. | 2019 |
| Junior Science, Engineering, and Humanities Symposium; Florida Museum of Nat. Hist. | 2019 |
| Annual "Insectapalooza" – Cornell University Entomology Department's open house | 2012–2016 |
| Rhode Island sector of the first annual National Moth Week | 2012 |

MEMBERSHIPS

Association for Tropical Lepidoptera; Entomological Society of America, SysEB section
The Lepidopterists' Society; Society for the Study of Evolution

COMPLEMENTARY EDUCATION

Data Carpentries workshop on Python

Six-hour workshop using Python in Anaconda, principally with the Pandas package 2022

Hands-on Virtual Lab: Machine Learning

Three-hour workshop in MatLab, using machine learning, training models 2020

Hands-on Learning with RevBayes

Three-hour workshop focused on using Bayesian software RevBayes, and its utility in the classroom 2020

State-dependent Diversification Models via Graphical Models and RevBayes

Three-hour workshop focused on using RevBayes for studying diversification 2020

Gainesville Ally Skills Network

Three-hour workshop on ally skills, identifying power and privilege 2019

UF Informatics & Biodiversity Institutes

Two-day software carpentry workshop using R, the Unix Shell, and Git 2019

Neotropical Lepidoptera Course

100-hour international course conducted at the Jenaro Herrera Research Center, Loreto, Peru 2013

SKILLS

Programming: Proficient in Unix and R; utilization of custom Python scripts; experienced interacting in terminal with High Performance Computing (e.g. BASH scripting); some experience with MatLab

Phylogenetics: Experienced and fully proficient with Aliscore, AliView, BiSSE, ancThresh (Phytools), ASTRAL, BAMM, BEAST, BioGeoBears, CLaDs, GeoSSE, ExaBayes, FASconCAT, FigTree, HiSSE, IQ-TREE, MAAFT, MPBoot, MrBayes, PAUP, RAxML, RPANDA, SIMMAP (Phytools), ThreshBayes (Phytools), TNT, among others

Wet lab: Sample preparation, DNA extraction and quantification for high-throughput, NextGen sequencing

Morphology: Genitalia preparation, slide mounting, and other morphological clearing/staining techniques; insect rearing/culturing

Other: Adobe Creative Cloud: Illustrator CC, Acrobat DC, Photoshop CC (and earlier CS versions); Photographic stacking (Helicon Focus; Zerene) combined with various DSLRs; Macrophotography (Nikon & Canon)

FIELDWORK

Brazil; Canada; Peru; United States

LANGUAGES

Fluent in English and Portuguese