



# Scott A. Taylor

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## CURRENT APPOINTMENTS

Assistant Professor **August 2016 - Present**  
University of Colorado at Boulder  
Department of Ecology and Evolutionary Biology

Director, Mountain Research Station **June 2021 - Present**

## PREVIOUS APPOINTMENTS

Banting Postdoctoral Fellow **April 2014 – August 2016**  
Cornell Lab of Ornithology

3CPG Fellow (Cornell Center for Comparative and Population Genomics) **August 2013 – August 2014**  
Cornell University

Fuller Postdoctoral Fellow in Evolutionary Biology **May 2012 – August 2016**  
Cornell Lab of Ornithology  
*Postdoctoral advisor: Dr. Irby Lovette*

## RESEARCH INTERESTS

Hybridization, speciation, natural history, environmental change

## EDUCATION

PhD **2006 – 2011**  
Queen's University - Department of Biology  
*Advisor: Dr. Vicki Friesen*

BSc H **2002 – 2006**  
University of Guelph - Department of Integrative Biology  
*Honors Theses Advisors: Dr. Tom Nudds, Dr. Douglas Larson*

## AWARDS & HONORS, FELLOWSHIPS & SCHOLARSHIPS

### AWARDS & HONORS

- 2021**      Bicentenary Medal - Linnean Society  
              Rising Star in Evolution - University of Toronto Atwood Colloquium
- 2020**      Fellow of the American Ornithological Society  
              CU Boulder Equity and Excellence Award - Faculty
- 2018**      Young Investigator Award - American Ornithological Society  
              Elected Member - American Ornithological Society
- 2015**      Best Talk Award, American Society of Naturalists

- 2008** Tri-Council Recipient Recognition Award  
**2007** Best Poster – The Waterbird Society  
Best TA Award - Queen's University Department of Biology  
**2004** Tony Anthony Award - University of Guelph

## **AWARDED TO STUDENTS and POSTDOCS**

- 2021** Kathryn Grabenstein: American Ornithological Society Council Award for best oral presentation  
**2020** Sheela Turbek: American Society of Naturalists Ed Ricketts Student Presentation Award  
Sheela Turbek: American Ornithological Society Mark E. Hauber Award for best oral presentation on avian behavior

## **FELLOWSHIPS & SCHOLARSHIPS**

- 2010-2011** Ontario Graduate Scholarship  
**2008-2010** NSERC/CRSNG – PGS-D  
Ontario Graduate Scholarship (declined)  
**2007-2008** NSERC/CRSNG - PGS-M  
Ontario Graduate Scholarship (declined)  
**2006-2007** NSERC/CRSNG - PGS-M  
Ontario Graduate Scholarship (declined)  
**2006** Bob McCann Memorial Scholarship  
**2005** University of Guelph Dean's Scholarship  
**2004** Ontario Parks Partners Bursary  
Friends of Rondeau Bursary  
University of Guelph Dean's Scholarship  
**2002** Entrance Scholarship

## **AWARDED TO STUDENTS and POSTDOCS**

- 2021** Maria Stager: Postdoctoral Research Fellowship in Biology (PRFB)  
National Science Foundation  
Angela Theodosopoulos: EBIO Dissertation Completion Fellowship  
Angela Theodosopoulos: Center for the Study of Origins Fellowship  
Erik Funk: EBIO Dissertation Completion Fellowship  
Angela Theodosopoulos: NWT LTER Summer Fellowship  
**2020** Tyler Chafin: Postdoctoral Research Fellowship in Biology (PRFB)  
National Science Foundation  
Angela Theodosopoulos: EBIO One Semester Fellowship  
Sheela Turbek: University of Colorado EBIO Summer Fellowship  
Bernice Udick Graduate School Dissertation Completion Fellowship  
Mia Larrieu: Graduate Research Program Fellowship (GRFP)  
National Science Foundation  
Angela Theodosopoulos: NWT LTER Summer Fellowship

- Kathryn Grabenstein: Figueroa Family Fellowship, Graduate School, University of Colorado, Boulder  
 Erik Funk: University of Colorado Summer Fellowship  
**2019** Angela Theodosopoulos: NWT LTER Summer Fellowship  
**2018** Angela Theodosopoulos: Graduate Research Program Fellowship (GRFP)  
 National Science Foundation, Honorable Mention  
**2017** Kathryn Grabenstein: Graduate Research Program Fellowship (GRFP)  
 National Science Foundation

## REFEREED PUBLICATIONS (Jan 5 2022: H-index 22; i10-index 36; 1989 citations)

28 published since joining CU Boulder, 54 total.

Author was an \*undergraduate, \*\*graduate, or +postdoc advisee; =equal contribution

- 2021** 54) +=Branch C, +=Semenov G, +Wagner DN, \*Sonnenberg B, \*Pietra A, Bridge E, =**Taylor SA**, =Pravosudov V. The genetic basis of spatial cognitive variation in a food-caching bird. *Current Biology*. <https://doi.org/10.1016/j.cub.2021.10.036>
- 53) \*\*Funk ER, Mason NA, Pálsson S, Albrecht T, Johnson J, **Taylor SA**. *Accepted*. A supergene underlies linked variation in color and morphology in a Holarctic songbird. *Nature Communications* 12, Article number: 6833
- 52) \*\*Minor NR, \*\*Dougherty PJ, **Taylor SA**, Carling M. Estimating hybridization in the wild using community science data: a path forward. *Accepted*. *Evolution*
- 51) \*\*Turbek SP, +Semenov G, Enbody ED, Campagna L, **Taylor SA**. *Accepted*. Variable signatures of selection despite conserved recombination landscapes early in speciation. *Journal of Heredity*. **Editor's choice**.
- 50) \*\*Theodosopoulos AN, \*\*Grabenstein KC, Bensch S, **Taylor SA**. A highly invasive malaria parasite has expanded its range to non-migratory birds in Western North America. *Biology Letters*. 17: 20210271. <https://doi.org/10.1098/rsbl.2021.0271>
- 49) Toews DPL, Bai MD, Kramer GR, Lovette IJ, Streby H, **Taylor SA**. Extensive historical and contemporary hybridization suggests pre-mating isolation in *Vermivora* warblers is not strong: a reply to Confer et al. *Ecology and Evolution*. 11: 10720–10723. DOI: 10.1002/ece3.7327
- 48) \*Feldmann KB, \*\*Grabenstein KC, **Taylor SA**. Achromatic plumage variation between and within hybridizing black-capped and mountain chickadees. *Journal of Field Ornithology*. 92: 184-202.
- 47) \*\*Turbek SP, Brown M, Di Giacomo AS, Kopuchian C, Hochachka WM, Estalles C, Lijtmaer DA, Tubaro PL, Silveira LF, Lovette IJ, Safran RJ, **Taylor SA**, Campagna L. Rapid speciation via the evolution of pre-mating isolation in the Iberá Seedeater. *Science*. 371, eabc0256
- 46) +Semenov G, +Linck E, Enbody ED, Harris RB, Khaydarov DR, Alström P, Andersson L, **Taylor SA**. Recent hybridization and asymmetric introgression

- reveal the genetic architecture of a plumage trait. *Nature Communications*. 12: 1019. <https://doi.org/10.1038/s41467-021-21340-y>
- 45) \*Beam JK, \*\*Funk ER, **Taylor SA**. Genomic and acoustic differences separate Lillian's Meadowlark from Eastern and Western Meadowlarks. *Ornithology*. 138: 1-13. DOI: 10.1093/ornithology/ukab004
- 2020 44) \*\*Funk ER, Spellman GM, Winker K, Withrow JJ, Ruegg KC, Zavaleta E, **Taylor SA**. *Accepted*. Phylogenomic data reveal widespread introgression across the range of an arctic and alpine specialist. *Systematic Biology*. 70: 527-541. <https://doi.org/10.1093/sysbio/syaa071>
- 43) Feng S, Stiller J, Deng Y...**Taylor SA**...Jarvis ED, Paten B, Zhang G. (141 authors total). Dense sampling of bird diversity increases power of comparative genomics. *Nature*. 587: 252-257.
- 42) Nelson SL, **Taylor SA**, Reuter JD. An isolated white-tailed deer (*Odocoileus virginianus*) population on St. John, US Virgin Islands shows low inbreeding and comparable heterozygosity to other larger populations. *Ecology and Evolution*. 11:2775–2781. DOI: 10.1002/ece3.7230
- 41) Stewart KA, **Taylor SA**. Leveraging eDNA to expand the study of hybrid zones. *Molecular Ecology*. 00: 1– 9. <https://doi.org/10.1111/mec.15514>
- 40) Baiz MD, Kramer GR, Streby HM, **Taylor SA**, Lovette IJ, Toews DPL. Genomic and plumage variation in *Vermivora* hybrids. *The Auk: Ornithological Advances*. ukaa027, <https://doi.org/10.1093/auk/ukaa027>
- 39) \*Wagner DN, Curry RL, Chen N, Lovette IJ, **Taylor SA**. Genomic regions underlying metabolic and neuronal signaling pathways are temporally consistent outliers in a moving avian hybrid zone. *Evolution*. 74: 1498-1513
- 2019 38) Larson EL, Tinghitella RM, **Taylor SA**. Insect hybridization and climate change. *Frontiers in Ecology and Evolution*. 7: 348. doi: 10.3389/fevo.2019.00348
- 37) \*\*Funk ER, **Taylor SA**. High-throughput sequencing is revealing genetic associations with avian plumage color. *The Auk: Ornithological Advances*. 136: 1-7. DOI: 10.1093/auk/ukz048 **Editor's choice**.
- 36) Toews DPL, **Taylor SA**, Streby H, Kramer G, Lovette IJ. Selection on *VPS13A* linked to long-distance migratory behavior in a songbird. *Proceedings of the National Academy of Sciences*. 116: 18272–18274. [www.pnas.org/cgi/doi/10.1073/pnas.1909186116](http://www.pnas.org/cgi/doi/10.1073/pnas.1909186116)
- 35) **Taylor SA**, Larson EL. Insights from genomes into the evolutionary importance and prevalence of hybridization in nature. *Nature Ecology and Evolution*. 3: 170-177.
- 34) Kim K-W, Jackson BC, Zhang H, Toews DPL, **Taylor SA**, Greig EI, Lovette IJ, Liu MM, Davison A, Griffith SC, Zeng K, Burke T. Genetics and evidence for balancing selection of a sex-linked colour polymorphism in a songbird. *Nature Communications*. 10:1852, <https://doi.org/10.1038/s41467-019-09806-6>
- 2018 33) Toews DPL, Streby HM, Burket L, **Taylor SA**. A wood-warbler produced through both interspecific and intergeneric hybridization. *Biology Letters*. 14: <http://doi.org/10.1098/rsbl.2018.0557>

- 32) \*\*=Hansen AN, +=Hund AK, **Taylor SA**. Parasites and host species barriers in animal hybrid zones. *Trends in Ecology and Evolution*. 34: 19-30.
- 31) \*\*Grabenstein K, **Taylor SA**. Breaking barriers: the causes, consequences, and experimental utility of human-mediated hybridization. *Trends in Ecology and Evolution*. 33: 198-212.
- 30) **Taylor SA**, \*Jenkins M, \*Manghani M, Birt T, Anderson DJ, Jiménez-Uzcátegui G, Friesen VL. Genetic distinctiveness of brown pelicans (*Pelecanus occidentalis*) from the Galápagos Islands compared to continental North America. *Conservation Genetics*. 19: 629-636.
- 2017 29) Toews DPL, \*\*Hofmeister NR, **Taylor SA**. The evolution and genetics of carotenoid processing in animals. *Trends in Genetics*. 33: 171-182.
- 28) McQuillan MA, Huynh AV, **Taylor SA**, Rice AM. Development of 10 novel SNP-RFLP markers for quick genotyping within the black-capped (*Poecile atricapillus*) and Carolina (*P. carolinensis*) chickadee hybrid zone. *Conservation Genetic Resources*. 9: 261-264. DOI 10.1007/s12686-016-0667-z
- 2016 27) =Toews DPL, =**Taylor SA**, Vallender R, Brelsford A, Butcher BG, Messer PW, Lovette IJ. Plumage genes and little else distinguish the genomes of hybridizing warblers. *Current Biology*. 26: 2313-2318.  
**Research highlighted in** Scordato L and Safran R. *Current Biology* 26: R1155-R1157.
- 26) Kaiser SA, **Taylor SA**, Chen N, Sillett TS, Bondra ER, Webster MS. A comparative assessment of SNP and microsatellite markers for assigning parentage in a socially monogamous bird. *Molecular Ecology Resources*. doi:10.1111/1755-0998.12589.
- 25) Weber MG, Porturas LD, **Taylor SA**. Foliar nectar enhances plant-mite mutualisms: The effect of leaf sugar on the control of powdery mildew by domatia-inhabiting mites. *Annals of Botany*. 118: 459-466. doi:10.1093/aob/mcw118.
- 2015 24) =Toews DPL, =Campagna L, =**Taylor SA**, Balakrishnan CN, Baldassarre DT, Deane-Coe PE, Harvey MG, Hooper DM, Irwin DE, Judy CD, Mason NA, McCormack JE, McCracken KG, Oliveros CH, Safran RJ, Scordato E, Stryjewski KF, Tigano A, Uy AJ, Winger, B. Genomic approaches to understanding population divergence and speciation in birds. *The Auk: Ornithological Advances*. 133: 13-30. http://dx.doi.org/10.1642/AUK-15-51.1
- 23) **Taylor SA**, Larson EL, Harrison RG. Hybrid Zones: Windows on Climate Change. *Trends in Ecology and Evolution* 30: 398-406. DOI: j.tree.2015.04.010
- 22) \*\*Mason NA, **Taylor SA**. Differentially expressed genes match morphology and plumage despite largely homogenous genomes in a Holarctic songbird. *Molecular Ecology* 24: 3009-3025. doi: 10.1111/mec.13140.  
**Research highlighted in:** Lifjeld JT. *Molecular Ecology* 24: 2901-2903; Vignieri S. *Science* 348: 300.
- 2014 21) **Taylor SA**, Curry RL, White TA, Ferretti V, Lovette I. Spatiotemporally consistent genomic signatures of reproductive isolation in a moving hybrid zone. *Evolution* 68: 3066-3081.

- 20) **Taylor SA**, White TA, Hochachka WM, Ferretti V, Curry RL, Lovette I. Climate-Mediated Movement of an Avian Hybrid Zone. *Current Biology* 24: 671-676.  
**Research highlighted in Harr B, Price T. *Current Biology* 24: 230-232.**
- 19) Burg T, **Taylor SA**, \*Lemmen K, Gaston AJ, Friesen VL. Postglacial population differentiation potentially facilitated by a flexible migratory strategy in the golden-crowned kinglet (*Regulus satrapa*). *Canadian Journal of Zoology* 92: 163-172.
- 18) \*Boutilier S, **Taylor SA**, Morris-Pocock JA, Lavoie R, Friesen VL. Population genetic differentiation of the Caspian tern (*Hydroprogne caspia*) in North America. *Conservation Genetics* 15: 275-281.
- 2013** 17) **Taylor SA**, Morris-Pocock JA, Tershy BR, Castillo-Guerrero JA, Friesen, VL. Genetic evidence for hybridization between brown (*Sula leucogaster*) and blue-footed (*S. nebouxii*) boobies in the Gulf of Mexico. *Marine Ornithology* 41: 113-119.
- 16) **Taylor SA**, Anderson DJ, Friesen VL. Evidence for asymmetrical gene flow of nuclear loci, but not mitochondrial loci, between a seabird species pair. *PLoS ONE* 8(4): e62256.
- 15) \*Jeyasingham W, **Taylor SA**, Zavalaga CB, Simeone A, Friesen VL. Specialization to cold water upwellings facilitates gene flow in seabirds: additional evidence from the Peruvian pelican, *Pelecanus thagus* (Aves: Pelecanidae). *Journal of Avian Biology* 44: 297-304.
- 2012** 14) Kennedy M, **Taylor SA**, Nadvornik P, Spencer HG. The phylogenetic relationships of the extant pelicans inferred from DNA sequence data. *Molecular Phylogenetics and Evolution* 66: 215-222.
- 13) **Taylor SA**, Anderson DJ, Friesen VL. Evidence for strong assortative mating, limited gene flow, and strong differentiation across the blue-footed / Peruvian booby hybrid zone in northern Peru. *Journal of Avian Biology* 43: 311-324.
- 12) **Taylor SA**, Friesen V L. Potential uses of molecular genetics for understanding seabird evolution, ecology and conservation. *Marine Ecology Progress Series* 451: 285-304.
- 11) **Taylor SA**, Patirana A, Birt T, Piatt J, Friesen VL. Cryptic introgression between murre sister species (*Uria* spp.) in the Pacific low Arctic: frequency, cause, and implications. *Polar Biology* 35: 931-940.
- 2011** 10) **Taylor SA**, Zavalaga CB, Luna –Jorquera G, Simeone A, Anderson DJ, Friesen VL. Panmixia and high genetic diversity in a Humboldt Current endemic, the Peruvian Booby (*Sula variegata*). *Journal of Ornithology* 152:623-630.
- 9) **Taylor SA**, \*Maclagan L, Anderson DJ, Friesen VL. Could specialization to cold water upwelling systems influence genetic diversity and gene flow in marine organisms? A case study using the blue-footed booby, *Sula nebouxii*. *Journal of Biogeography* 38:883-893.
- 2010** 8) **Taylor SA**, Zavalaga CB, Friesen VL. Hybridization between blue-footed (*Sula nebouxii*) and Peruvian (*S. variegata*) boobies in northern Peru. *Waterbirds* 33: 251-257.

- 7) Zavalaga CB, Halls JN, Mori GP, **Taylor SA**, Dell’Omo G. At-sea movement patterns and diving behavior of Peruvian boobies *Sula variegata*: sexual segregation by foraging habitat in a rich marine environment? *Marine Ornithological Progress Series* 404: 259-274.
- 6) Morris-Pocock JA, **Taylor SA**, Birt T, Friesen VL. Concerted evolution of duplicated mitochondrial control regions in three related seabird species. *BMC Evolutionary Biology* 10:14.
- 5) Morris-Pocock J A, **Taylor SA**, Sun Z, Friesen VL. Isolation and characterization of 15 microsatellite loci for red-footed (*Sula sula*), blue-footed (*S. nebouxii*) and Peruvian (*S. variegata*) boobies. *Molecular Ecology Resources* 10: 404-408.
- 4) **Taylor SA**, Morris-Pocock JA, Sun Z, Friesen VL. Isolation and characterization of 10 microsatellite loci in blue-footed (*Sula nebouxii*) and Peruvian boobies (*Sula variegata*). *Journal of Ornithology* 151: 525-528.
- 2009 3) Zavalaga CB, **Taylor SA**, Dell’Omo G, Anderson DJ, Friesen VL. Male/female classification of the Peruvian booby. *Wilson Journal of Ornithology* 121: 739-744.
- 2) Loughheed SC, **Taylor SA**. Species account: American bullfrog, *Lithobates catesbeianus*. *Opinicon Natural History Notes*.
- 2008 1) =Morris-Pocock JA, =**Taylor SA**, Birt TP, Damus M, Piatt JF, Warheit KI, Friesen VL. Population genetic structure in Atlantic and Pacific Ocean common murre (*Uria aalge*) populations: natural replicate tests of post-Pleistocene evolution. *Molecular Ecology* 17:4859-4873.

## PUBLICATIONS IN REVIEW or REVISION

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- 1) \*\*Grabenstein KC, Otter KA, Burg TM, **Taylor SA**. Closely related chickadees have reduced body condition when they occur in sympatry. in review - *Diversity and Distributions*
- 2) Larson EL, **Taylor SA**. Geography of Speciation. in review - *Oxford Bibliographies*.

## PERSPECTIVES, COMMENTARIES, and BOOK REVIEWS

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- 2019 5) \*\*Turbek SP, +Semenov GA. **Taylor SA**, Book Review: Evolutionary Genetics: Concepts, analysis, and practice. *Molecular Ecology* 28: 4533-4534
- 2018 4) \*\*=Smith CCS, =Scordato ES, =**Taylor SA**, \*\*=Tittes S, =Vergara D. Book Review: Molecular Population Genetics. Matthew Hahn. *Molecular Ecology* 27: 4976-4977
- 3) \*\*Hagerty S, Barger N, \*\*Carter J, **Taylor SA**, Gruber J. Lab Agreements Improve Mentoring. *Nature* 563: 325.



- 2) \*Feldmann K, \*\*Funk E, \*\*Grabenstein K, \*Jackson D, \*\*Theodosopolous AN, +Wagner DN, **Taylor SA**. Book Review: The Ascent of Birds. *The Journal of Field Ornithology* 90: 101-102.
- 2016 1) **Taylor SA**, Campagna L. Avian supergenes: Genetic data reveal how two complex bird mating systems evolved. *Science* 351: 446-447.

## NON-REFEREED REPORTS

- 1) Anderson DJ, **Taylor SA**, Zavalaga CB, Friesen VL. 2009. National Geographic Final Report: Diversification without obvious geographical barriers to gene flow in blue-footed and Peruvian boobies (#8331-07).

## GRANTS

**EXTERNAL** (Total: \$5,931,007; CU Boulder: \$3,010,582)

<b>2021</b>	NSF - Division of Graduate Education ( <b>Co-PI</b> ) FIRE UP: An immersive early field experience program to build community, support inclusivity, and foster large-scale research ideas <b>Collaborators:</b> Valerie McKenzie (PI), Nancy Emery, Lisa Corwin, Julian Resasco	\$499,997
	NSF IMAGiNE-FG - Collaborative Research ( <b>Co-PI</b> ) Linking the genetic basis of spatial cognition to natural selection in a food-caching bird (Amount awarded to Taylor Lab \$1,525,713) <b>Collaborator:</b> Valdimir Pravosudov	\$2,684,931
	NSF Intern Supplement ( <b>PI</b> ) Amendment to: Local adaptation, hybrid breakdown, and species barriers in North American chickadees; To support - Sheela Turbek	\$35,742
<b>2020</b>	NSF Intern Supplement ( <b>PI</b> ) Amendment to: Cognitive deficiency as a source of reproductive isolation between hybridizing species; To support - Kathryn Grabenstein	\$50,220
<b>2019</b>	NSF Rules of Life - Collaborative Research ( <b>PI</b> ) Local adaptation, hybrid breakdown, and species barriers in North American chickadees (Amount awarded to Taylor Lab \$580,450) <b>Collaborators:</b> Amber Rice, Zac Cheviron, Matt Carling	\$1,751,689
<b>2018</b>	NSF IOS - Collaborative Research ( <b>Co-PI</b> ) Cognitive deficiency as a source of reproductive isolation between hybridizing species (Amount awarded to Taylor Lab: \$318,460) <b>Collaborators:</b> Amber Rice, Tim Roth	\$943,359

**INTERNAL** (Total: \$282,978)

<b>2019</b>	University of Colorado Boulder Faculty Conference Award Visualizing Genomic Data Workshop for Graduate Students <b>Collaborators:</b> Erica Larson, Nolan Kane	\$3000
<b>2018</b>	University of Colorado Boulder RIO SEED Grant ( <b>PI</b> )	\$49,578



Big data for a big problem: Understanding how urbanization alters contemporary evolution using high-throughput sequencing and high-resolution animal tracking

<b>2017</b>	<b>Collaborators:</b> Marina Kassianidou, Kathryn Grabenstein University of Colorado Boulder College of Arts and Science Infrastructure Grant ( <b>Co-PI</b> )	\$113,000
	Improving undergraduate study spaces in the Ramaley Building <b>Collaborators:</b> Stacey Smith, Deane Bowers	
	University of Colorado Boulder Small Experiment Grant ( <b>Co-PI</b> ) Shared lab spaces pilot project	\$95,000
	<b>Collaborators:</b> Kathy Aguiar, Stacey Smith, Deane Bowers, Chris Lowry, Corrie Detweiler, Pei-San Tsai	
	University of Colorado IMPART Grant ( <b>Co-PI</b> ) Undergrad General Biology TA Diversity and Inclusions Training	\$3000
	<b>Collaborators:</b> Kendi Davies, Julian Resasco, Mallory Choudoir	
<b>2015, 16</b>	Travel Grant – American Ornithologists Union	\$1100
<b>2010, 14</b>	Travel Grant - Society for the Study of Evolution	\$1000
<b>2010</b>	Travel Grant – World Seabird Conference	
	Travel Grant – Society for Conservation Biology	\$700
	Lerner-Gray Fund for Marine Research Award	\$1500
<b>2008</b>	National Geographic Society (author - co-awarded)	\$13,400
<b>2007</b>	Travel Award – The Waterbird Society	\$1075
	Travel Award – Pacific Seabird Group	\$325
	Graduate Student Conference Award	\$300
<b>AWARDED TO STUDENTS and POSTDOCS (Total: \$92,108)</b>		
<b>2021</b>	Denver Field Ornithologists (Mia Larrieu)	\$2000
	EBIO Graduate Student Research Grant (Mia Larrieu)	\$2500
	Colorado Field Ornithologists (Will Anderson)	\$400
	Denver Field Ornithologists (Will Anderson)	\$1000
	Biological Sciences Initiative Research Grant (Will Anderson)	\$2500
	Biological Sciences Initiative Continuation Grant (Will Anderson)	\$2500
	American Ornithological Society Research Grant (Angela Theodosopoulos)	\$1800
	Western Field Ornithologists Research Grant (Angela Theodosopoulos)	\$750
	Colorado Field Ornithologists Research Grant (Angela Theodosopoulos)	\$1500
	EBIO Graduate Student Research Grant (Angela Theodosopoulos)	\$633
<b>2020</b>	Colorado Field Ornithologists (Mia Larrieu)	\$400
	Sara Eder Research Award (Erik Funk)	\$2500
	Denver Field Ornithologists (Cori Carver)	\$1350
	Colorado Field Ornithologists (Cori Carver)	\$1500
	Alexander and Verderber Undergraduate Research Grant	\$1500

	(Cori Carver)	
	Beverly Sears Research Grant (Erik Funk)	\$1000
	Biological Sciences Initiative (Shay Ding)	\$2500
	Beverly Sears Research Grant (Angela Theodosopoulos)	\$1000
	EBIO Graduate Student Research Grant (Angela Theodosopoulos)	\$2000
	Paddon/Gelhorn Grant, Indian Peaks Wilderness Alliance (Kathryn Grabenstein)	\$2,000
	Student Research Grant, Department Ecology & Evolutionary Biology, CU Boulder (Kathryn Grabenstein)	\$1,700
	Cynthia H. Schultz Graduate Student Grant (Kathryn Grabenstein)	\$2,000
<b>2019</b>	Denver Field Ornithologists (Erik Funk)	\$2000
	Biological Sciences Initiative (Katherine Feldmann)	\$2500
	American Ornithological Society Donald Bleitz Award (Erik Funk)	\$2500
	Undergraduate Research Opportunities Program Individual Grant (Cori Carver)	\$3000
	Microgrant Outreach Award, (Kathryn Grabenstein)	\$1,000
	Undergraduate Research Opportunities Program Team Grant, (Kathryn Grabenstein)	\$3,000
	Francis M. Peacock Scholarship, Garden Club of America (Kathryn Grabenstein)	\$4,500
	Project Grant, Colorado Field Ornithologist Society (Kathryn Grabenstein)	\$1,075
	Education & Conservation Grant, Denver Field Ornithologists (Kathryn Grabenstein)	\$1,000
	Undergraduate Research Opportunities Program (Katherine Feldmann)	\$3000
	Undergraduate Research Opportunities Program (Shay Ding)	\$1500
<b>2018</b>	Undergraduate Research Opportunities Program (Katherine Feldmann)	\$3000
	Marion and Gordon Alexander Memorial Fellowship Award (Katherine Feldmann)	\$1500
	Society of Systematic Biologists Research Award (Erik Funk)	\$2000
	Society of Systematic Biologists Research Award (Angela Theodosopoulos)	\$2000
	EBIO Graduate Student Research Grant (Angela Theodosopoulos)	\$2500
	Beverly Sears Research Grant (Angela Theodosopoulos)	\$1000
	Alex Singer Memorial Fund (Erik Funk)	\$2500
	University of Colorado Museum of Natural History (Erik Funk)	\$1000
	Hesse Award, American Ornithological Society (Kathryn Grabenstein)	\$2,300

	Student Research Grant, Department Ecology & Evolutionary Biology, CU Boulder (Kathryn Grabenstein)	\$2,300
	Frank Chapman Memorial Award, American Museum of Natural History (Kathryn Grabenstein)	\$2,000
	Beverly Sears Research Grant (Kathryn Grabenstein)	\$1,000
	Museum Grant, University of Colorado Museum of Natural History (Kathryn Grabenstein)	\$1,000
<b>2017</b>	Rosemary Grant Award, Society for the Study of Evolution (Kathryn Grabenstein)	\$2,500
	Research Grant Award, Boulder County Naturalist Association (Kathryn Grabenstein)	\$2,100
	Student Research Grant, Department Ecology & Evolutionary Biology (Kathryn Grabenstein)	\$2,000
	Graduate Student Research Grant, Society of Systematic Biologists (Kathryn Grabenstein)	\$1,300

## INVITED RESEARCH SEMINARS

<i>University of Michigan</i>	<b>2021</b>
<i>Iowa State University</i>	<b>2021</b>
<i>University of Toronto</i>	<b>2021</b>
<i>Max Planck Institute for Ornithology</i>	<b>2021</b>
<i>California Academy of Sciences</i>	<b>2021</b>
<i>University of Toledo - Department of Environmental Science</i>	<b>2021</b>
<i>Department of Biology – Colorado State University</i>	<b>2020</b>
<i>University of California Berkeley – Speciation and Introgression Discussion Group</i>	<b>2020</b>
<i>California Academy of Sciences – Genomics Social Hour</i>	<b>2020</b>
<i>Plenary Address - Ontario Ecology, Ethology and Evolution Colloquium</i>	<b>2020</b>
<i>Department of Biology – East Carolina University</i>	<b>2019</b>
<i>Department of Biology – University of Colorado Denver</i>	<b>2019</b>
<i>Museum Seminar Series – Graduate Student Invited Speaker, Louisiana State University</i>	<b>2018</b>
<i>Keynote Address, Colorado Field Ornithologists Annual Convention</i>	<b>2018</b>
<i>Young Investigator Symposium Plenary, American Ornithological Society</i>	<b>2018</b>
<i>Center for Ecological and Evolutionary Synthesis, University of Oslo</i>	<b>2018</b>
<i>School of Biology Seminar Series, University of Northern Colorado</i>	<b>2018</b>
<i>Department of Ecology and Evolution Seminar Series, University of Chicago</i>	<b>2018</b>
<i>Department of Biology Seminar Series, Middlebury College</i>	<b>2018</b>
<i>Department of Biology Seminar Series, University of Nevada, Reno</i>	<b>2017</b>
<i>Department of Zoology and Physiology Seminar Series, University of Wyoming</i>	<b>2017</b>
<i>Gordon Research Conference: Speciation, Lucca, Italy</i>	<b>2017</b>
<i>Department of Biology Seminar Series, University of California, Riverside</i>	<b>2016</b>
<i>EvoDay Seminar, Cornell University</i>	<b>2016</b>
<i>Department of Biology Seminar Series, University of California, Berkeley</i>	<b>2016</b>
<i>Department of Biology Seminar Series, University of California, Davis</i>	<b>2016</b>

<i>Speciation in Birds, North American Ornithological Congress</i>	2016
<i>Institute for Biodiversity Genomics, Smithsonian Institute</i>	2015
<i>Cornell Lab of Ornithology Seminar Series, Cornell Lab of Ornithology</i>	2015
<i>Symposium "Species responses to climate change", Ecological Society of America</i>	2015
<i>Department of Biology Seminar Series, Ithaca College</i>	2015
<i>Department of Ecology and Evolutionary Biology, University of Colorado, Boulder</i>	2015
<i>Department of Biology Seminar Series, University of North Carolina, Asheville</i>	2015
<i>Cornell Lab of Ornithology Seminar Series, Cornell Lab of Ornithology</i>	2014
<i>Departmental Seminar Series, Queen's University</i>	2014
<i>Bernardino Rivadavia Seminar Series, Museo Argentino de Ciencias Naturales</i>	2013
<i>Ecology and Evolutionary Biology Seminar Series, University of Rochester</i>	2013
<i>Cornell Lab of Ornithology Seminar Series, Cornell Lab of Ornithology</i>	2013
<i>EvoGroup Seminar Series, Cornell University</i>	2013
<i>EvoGroup Seminar Series, Cornell University</i>	2012
<i>Department of Ecology and Evolutionary Biology Seminar Series, Cornell University</i>	2011
<i>Cornell Lab of Ornithology Seminar Series, Cornell Lab of Ornithology</i>	2011
<i>Ecology and Evolutionary Biology Seminar Series, Queen's University</i>	2010
<i>Queen's University Biological Station Seminar Series, Queen's University</i>	2010
<i>Behaviour, Ecology, and Evolution Research Seminar Series, Queen's University</i>	2009
<i>Behaviour, Ecology, and Evolution Research Seminar Series, Queen's University</i>	2008

## CONTRIBUTED PRESENTATIONS AT PROFESSIONAL MEETINGS

<i>American Society of Naturalists, Society for the Study of Evolution</i>	2021
<i>American Society of Naturalists; North American Ornithological Congress</i>	2020
<i>Waterbird Society, Gordon Research Conference: Speciation, Society for the Study of Evolution, American Ornithological Society</i>	2019
<i>American Ornithological Society, Guild of Rocky Mountain Ecologists and Evolutionary Biologists</i>	2018
<i>Gordon Research Conference: Speciation</i>	2017
<i>American Society of Naturalists, North American Ornithological Congress</i>	2016
<i>Gordon Research Conference: Speciation, Society for the Study of Evolution, American Ornithologists Union, Ecological Society of America, Cornell Graduate Student Symposium</i>	2015
<i>American Ornithologists Union, Society for the Study of Evolution, Canadian Society for Ecology and Evolution, American Society of Naturalists</i>	2014
<i>American Genetic Association Annual Symposium, Society for the Study of Evolution</i>	2013
<i>North American Ornithological Congress, First Joint Congress on Evolutionary Biology*, Cornell University Speciation Symposium</i>	2012
<i>Society for the Study of Evolution</i>	2011
<i>1<sup>st</sup> World Seabird Conference, Society for Conservation Biology, Society for the Study of Evolution, Canadian Society for Ecology and Evolution</i>	2010
<i>American Ornithologists Union, Ontario Ecology and Ethology Colloquium</i>	2009
<i>Society for the Study of Evolution, Ontario Ecology and Ethology Colloquium</i>	2008
<i>31<sup>st</sup> Annual Waterbird Society*, Society of Canadian Ornithologists, Pacific Seabird Group</i>	2007

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**SYMPOSIA**


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<b>North American Ornithological Congress - Symposium - Avian Radiations in the 21st Century - Co-Organizer</b>	<b>2020</b>
<b>Symposium on “Underlying Mechanisms of Avian Hybridization”, American Ornithological Society meeting, Tucson AZ - Co-Organizer</b>	<b>2018</b>
<b>Symposium on “Early Career Professionals”, American Ornithological Society meeting, Tucson AZ - Co-Organizer</b>	<b>2018</b>
<b>Symposium on “Early Career Professionals”, American Ornithological Society meeting, East Lansing, MI - Co-Organizer</b>	<b>2017</b>
<b>Symposium on “Genomic approaches to understanding avian speciation”, American Ornithologists Union, Estes Park, CO - Co-Organizer</b>	<b>2014</b>

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**TEACHING & MENTORSHIP**


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**Graduate Mentees (6 total):** Mia Larrieu PhD (2020-present); Sheela Turbek, PhD (2019-2021); Katherine Feldmann MA (2019-2021); Erik Funk, PhD (2017-present); Angela Hansen, PhD (2017-present); Kathryn Grabenstein, PhD (2016-present)

**Postdoctoral Mentees (5 total):** Maria Stager (2021-present); Tyler Chafin (2021-present); Georgy Semenov (2019-present); Dominique Wagner (2018-2020); Amanda Hund (2017-2018)

**Undergraduate and Postgraduate Mentees (10 total; <sup>H</sup> = Honors Thesis student):** <sup>H</sup>Shay Ding, CU Boulder (2018 - 2021); Vanessa Arnold, CU Boulder (2019-present); <sup>H</sup>Cori Carver, CU Boulder (2019 - present); <sup>H</sup>Will Anderson, CU Boulder (2020 - present); <sup>H</sup>Johanna Beam, CU Boulder (2018 - 2020) <sup>H</sup>Katherine Feldman, CU Boulder (2017 – 2020); Harriett Leeson (2020-2021); Rachael Merkt (2019); Torrey Davis (2018); <sup>H</sup>Scott Boutilier (2010-2011); <sup>H</sup>Kimberley Lemmen (2009-2010); <sup>H</sup>William Jeyasingham (2008-2009); <sup>H</sup>Laura Maclagan (2007-2008)

**Graduate Committees (14 total; 2016-present):** Maizy Brasher, Chris Smith, David Zonana, Paul Dougherty, Sean Streich, Amy Benefield, Will Reed, Kelly Carscadden, Peter Innes, Daniel Jackson, Travis Mize, Sheela Turbek, Molly McDermott, Emily Curcio,

**COURSES TAUGHT** (Instructor unless otherwise indicated)

Course	Institution	Year
<u>Ornithology</u> 4 credit hours; lecture/lab; undergrad/grad 32 - 41 students	CU Boulder	<b>2021, 2020, 2018</b>
<u>Population Genetics</u> 4 credit hours; lecture/lab; undergrad/grad 15 - 27 students	CU Boulder	<b>2021, 2020, 2019, 2017</b>
<u>Field Ornithology</u>	CU Boulder	<b>2019</b>

3 credit hours; lecture/lab; undergrad 15 students <u>General Biology</u>	CU Boulder	<b>2018, 2017, 2016</b>
4 credit hours; lecture; undergrad; 650 students <u>Galápagos Global Seminar</u>	CU Boulder	<b>2018, 2017</b>
3 credit hours; lecture/lab; undergrad; 14 students <u>Diversity in STEM Seminar</u>	CU Boulder	<b>2017 - 2020</b>
1 credit hour; lecture; undergrad/grad; 15 - 30 participants <u>Speciation, Hybridization, and Phylogeography Seminar</u>	CU Boulder	<b>2018</b>
1 credit hour; lecture; grad; 10 students <u>Evolutionary Genomics Seminar</u>	CU Boulder	<b>2017</b>
1 credit hour; lecture; grad; 10 students <u>Galapagos Field Course</u>	Cornell	<b>2016</b>
4 credit hours; lecture/lab; undergrad; 10 students		

## PROFESSIONAL SERVICE

### UNIVERSITY & DEPARTMENTAL

**Reviewer:** *Undergraduate Research Experience Program, RIO Seed Grant Program*

Graduate Committee – University of Colorado Boulder, EBIO Dept.	<b>2020 - Present</b>
Justice, Equity, Diversity, and Inclusion Committee – University of Colorado Boulder, EBIO Dept.	<b>2019 - 2021</b>
Aesthetics Committee – University of Colorado Boulder, EBIO Dept.	<b>2017 - Present</b>
Graduate Committee – University of Colorado Boulder, EBIO Dept.	<b>2018 - 2019, 2020 - 2021</b>
General Biology Committee – University of Colorado Boulder, EBIO Dept.	<b>2016 - 2019</b>
Executive Committee – University of Colorado Boulder, EBIO Dept.	<b>2017 - 2018</b>
Reappointment, tenure, and promotion committee – Queen’s University	<b>2008 - 2009</b>
Reappointment, tenure, and promotion committee – Queen’s University	<b>2007 - 2008</b>
Graduate Social Committee Co-chair – Queen’s University	
Biology Graduate Social Committee Co-chair – Queen’s University	<b>2006 - 2007</b>

### SOCIETY

**Reviewer:** *National Science Foundation, (19 journals): Evolution, Evolution Letters, Heredity, Proceedings of the Royal Society B, Molecular Ecology, Biological Journal of the Linnean Society, Global Change Biology, The Auk, The Journal of Avian Biology, Marine Ornithology, Waterbirds, The Wilson Journal of Ornithology, PLoS ONE, Frontiers in Zoology, Polar Biology, Ibis, Canadian Field Naturalist, Nature Ecology and Evolution, Molecular Biology and Evolution*

Executive Director Search Committee - American Ornithological Society	<b>2021</b>
Bird Names Committee - American Ornithological Committee	<b>2021 - present</b>
Diversity Committee - Society for the Study of Evolution	<b>2021 - Present</b>

Subject Editor – <i>Avian Conservation and Ecology</i>	2019 - Present
Associate Editor – <i>The Auk: Ornithological Advances (now Ornithology)</i>	2019 - Present
Diversity Committee member – American Ornithological Society	2016 - Present
Early Career Professional Committee – American Ornithological Society	2014 - 2020
Representative – Society for Conservation Biology Global Education Committee	2009 - 2014
Education Chair – Society for Conservation Biology Global Chapters	2009 - 2014
President – Kingston Chapter of the Society for Conservation Biology	2009 - 2010
Local Organizing Committee – Ontario Ecology and Ethology Colloquium	2009 - 2010
Dept of Biology President – Society for Conservation Biology, Kingston	2008 - 2009
President – Kingston Chapter of the Society for Conservation Biology	2007 - 2008
Panel Member – All Candidates Debate (Federal Election)	2007 - 2008
Local Organizing Committee Member – Society of Canadian Ornithologists	2006 - 2007

## ACADEMIC OUTREACH

<b><i>Ithaca College - Ornithology Research Discussion</i></b>	2021
<b><i>oSTEM CU Boulder - Pathways in STEM seminar and discussion</i></b>	2020
<b><i>Ithaca College - Ornithology Research Discussion</i></b>	
<b><i>North American Ornithological Congress - Symposium - Avian Radiations in the 21st Century</i></b>	2020
<b><i>North American Ornithological Congress - storytelling event</i></b>	2020
<b><i>North American Ornithological Congress - LGBTQIA+ Social</i></b>	2020
<b><i>Story Collider: Outside the Distribution, Society for the Study of Evolution, Providence RI</i></b>	2019
<b><i>Biological Sciences Initiative High School Program – Boulder Chickadee Study tour</i></b>	2019
<b><i>Workshop on “Making Science More Inclusive: Identity, Mentoring, and a Game of Cards”, American Ornithological Society meeting, Tucson AZ</i></b>	2018
<b><i>Council training on “Inclusion: everyone has a seat at the table”, American Ornithological Society Meeting, Tucson AZ</i></b>	2018
<b><i>Symposium on “Underlying Mechanisms of Avian Hybridization”, American Ornithological Society meeting, Tucson AZ</i></b>	2018
<b><i>LGBTQIA+ Social, American Ornithological Society meeting, Tucson AZ</i></b>	2018
<b><i>Symposium on “Early Career Professionals”, American Ornithological Society meeting, Tucson AZ</i></b>	2018
<b><i>Workshop on “Inclusive Pedagogy for Undergraduate TAs”, UC Boulder</i></b>	2017
<b><i>LGBTQIA+ Social, American Ornithological Society meeting, East Lansing, MI</i></b>	2017
<b><i>Symposium on “Early Career Professionals”, American Ornithological Society meeting, East Lansing, MI</i></b>	2017
<b><i>Symposium on “Genomic approaches to understanding avian speciation”, American Ornithologists Union, Estes Park, CO</i></b>	2014



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**PUBLIC EVENTS, SEMINARS, & WORKSHOPS**


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<i>Evergreen Audubon - The Boulder Chickadee Study</i>	<b>2021</b>
<i>Broomfield Birding Club - The guano islands of Peru</i>	<b>2021</b>
<i>Broomfield Open Space Seminar - Why Birds Matter</i>	<b>2020</b>
<i>Birds of the Rocky Mountains / Boulder Chickadee Study – Wild Bear Camp</i>	<b>2019</b>
<i>University of Colorado Boulder Art Museum Talk – Documenting Change</i>	<b>2019</b>
<i>Boulder County Audubon – guided hike</i>	<b>2019</b>
<i>TEDxBoulder: Within and Without (59,241 views as of Aug 27, 2019)</i>	<b>2019</b>
<i>Stand up Science with Shane Mauss – Boulder CO</i>	<b>2019</b>
<i>Boulder Public Library Outreach – Boulder Chickadee Study</i>	<b>2019</b>
<i>Interview on Radio 1190 – Boulder Chickadee Study</i>	<b>2019</b>
<i>Biological Sciences Initiative Teacher Workshop – Avian Hybridization</i>	<b>2018</b>
<i>Roaring Fork Audubon Seminar Series – Carbondale CO</i>	<b>2018</b>
<i>Aspen Environmental Center Seminar Series, Aspen CO</i>	<b>2018</b>
<i>Cornell Lab of Ornithology Board Meeting Seminar, Ithaca NY</i>	<b>2016</b>
<i>Public hike, MacGregor Point Provincial Park</i>	<b>2016</b>
<i>Eaton Birding Society Seminar Series, Eaton NY</i>	<b>2015</b>
<i>Cornell’s Adult University Summer Public Lecture, Ithaca NY</i>	<b>2015</b>
<i>Cornell Lab of Ornithology Board Meeting Seminar, Ithaca NY</i>	<b>2014</b>
<i>Eaton Birding Society Seminar Series, Eaton NY</i>	<b>2014</b>
<i>Kingston Field Naturalists Seminar Series, Kingston NY</i>	<b>2014</b>
<i>Cornell’s Adult University Summer Public Lecture, Ithaca NY</i>	<b>2014</b>
<i>Mini-course on insects: Cassavant Elementary School, 1<sup>st</sup> grade</i>	<b>2012-2014</b>
<i>Nerd Nite Seminar Series, Ithaca NY</i>	<b>2014</b>
<i>Rondeau Provincial Park Seminar Series, Rondeau ON</i>	<b>2014</b>
<i>Kingston Field Naturalists Seminar Series, Kingston ON</i>	<b>2010</b>
<i>Workshop on “Gardening with native plants”, Queen’s University</i>	<b>2006-2010</b>
<i>Queen’s University Biodiversity Day, Queen’s University</i>	<b>2010</b>
<i>Faculty of Education Seminar Series, Central Public School, Kingston ON</i>	<b>2009</b>

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**PUBLIC COURSES**


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<b>Course</b>	<b>Institution</b>	<b>Year</b>
Cornell’s Adult University (CAU) Faculty – 35 students; 8 day Arctic cruise,	Cornell	<b>2016</b>
Cornell’s Adult University (CAU) Faculty – 25 students. 8 day Hawaiian land tour,	Cornell	<b>2016</b>
Cornell’s Adult University (CAU) Faculty – 17 students; 2 week field course	Cornell	<b>2015, 2014, 2013</b>
Cornell’s Adult University (CAU) Faculty – 21 students, 9 day Antarctic cruise	Cornell	<b>2014</b>

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Cornell's Adult University (CAU) Faculty – 30 students, 26  
day transatlantic cruise

Cornell

**2013**

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## PROFESSIONAL SOCIETY MEMBERSHIPS

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American Society of Naturalists  
Canadian Society for Ecology and Evolution  
American Ornithologists Union

Society for the Study of Evolution  
Society for Conservation Biology

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## RELEVANT WORK EXPERIENCE

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Cornell's Adult University Faculty	<b>2013 - 2020</b>
Natural Heritage Education Specialist - Ontario Parks, Rondeau Provincial Park	<b>2011-2012</b>
Seasonal/Head Naturalist/Interpreter - Ontario Parks, Rondeau Provincial Park	<b>2003-2006</b>
Species at Risk Consultant - Ontario Parks, Rondeau Provincial Park	<b>2005</b>
Naturalist/Interpreter - Ontario Parks, MacGregor Point Provincial Park	<b>2002</b>